



wxErlang

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June 19, 2018

1 wxErlang User's Guide

The **wxErlang** application is an api for writing graphical user interfaces with wxWidgets.

1.1 wx the erlang binding of wxWidgets

The **wx** application is an erlang binding of **wxWidgets**. This document describes the erlang mapping to wxWidgets and it's implementation. It is not a complete users guide to wxWidgets. If you need that, you will have to read the wxWidgets documentation instead. **wx** tries to keep a one-to-one mapping with the original API so that the original documentation and examples shall be as easy as possible to use.

wxErlang examples and test suite can be found in the erlang src release. They can also provide some help on how to use the API.

This is currently a very brief introduction to **wx**. The application is still under development, which means the interface may change, and the test suite currently have a poor coverage ratio.

1.1.1 Contents

- *Introduction*
- *Multiple processes and memory handling*
- *Event Handling*
- *Acknowledgments*

1.1.2 Introduction

The original **wxWidgets** is an object-oriented (C++) API and that is reflected in the erlang mapping. In most cases each class in wxWidgets is represented as a module in erlang. This gives the **wx** application a huge interface, spread over several modules, and it all starts with the **wx** module. The **wx** module contains functions to create and destroy the GUI, i.e. `wx:new/0`, `wx:destroy/0`, and some other useful functions.

Objects or object references in **wx** should be seen as erlang processes rather than erlang terms. When you operate on them they can change state, e.g. they are not functional objects as erlang terms are. Each object has a type or rather a class, which is manipulated with the corresponding module or by sub-classes of that object. Type checking is done so that a module only operates on it's objects or inherited classes.

An object is created with **new** and destroyed with **destroy**. Most functions in the classes are named the same as their C++ counterpart, except that for convenience, in erlang they start with a lowercase letter and the first argument is the object reference. Optional arguments are last and expressed as tagged tuples in any order.

For example the **wxWindow** C++ class is implemented in the **wxWindow** erlang module and the member **wxWindow::CenterOnParent** is thus **wxWindow:centerOnParent**. The following C++ code:

```
wxWindow MyWin = new wxWindow();
MyWin.CenterOnParent(wxVERTICAL);
...
delete MyWin;
```

would in erlang look like:

```

MyWin = wxWindow:new(),
wxWindow:centerOnParent(MyWin, [{dir,?wxVERTICAL}]),
...
wxWindow:destroy(MyWin),

```

When you are reading wxWidgets documentation or the examples, you will notice that some of the most basic classes are missing in **wx**, they are directly mapped to corresponding erlang terms:

wxPoint is represented by {Xcoord,Ycoord}
wxSize is represented by {Width,Height}
wxRect is represented by {Xcoord,Ycoord,Width,Height}
wxCouleur is represented by {Red,Green,Blue[,Alpha]}
wxPoint is represented by {Xcoord,Ycoord}
wxString is represented by *unicode:charlist()*
wxGBPosition is represented by {Row,Column}
wxGSpan is represented by {RowSpan,ColumnSPan}
wxGridCellCoords is represented by {Row,Column}

In the places where the erlang API differs from the original one it should be obvious from the erlang documentation which representation has been used. E.g. the C++ arrays and/or lists are sometimes represented as erlang lists and sometimes as tuples.

Colours are represented with {Red,Green,Blue[,Alpha]}, the Alpha value is optional when used as an argument to functions, but it will always be returned from **wx** functions.

Defines, enumerations and global variables exists in `wx.hrl` as defines. Most of these defines are constants but not all. Some are platform dependent and therefore the global variables must be instantiated during runtime. These will be acquired from the driver with a call, so not all defines can be used in matching statements. Class local enumerations will be prefixed with the class name and a underscore as in `ClassName_Enum`.

Additionally some global functions, i.e. non-class functions, exist in the `wx_misc` module.

wxErlang is implemented as a (threaded) driver and a rather direct interface to the C++ API, with the drawback that if the erlang programmer does an error, it might crash the emulator.

Since the driver is threaded it requires a **smp** enabled emulator, that provides a thread safe interface to the driver.

1.1.3 Multiple processes and memory handling

The intention is that each erlang application calls `wx:new()` once to setup its GUI which creates an environment and a memory mapping. To be able to use **wx** from several processes in your application, you must share the environment. You can get the active environment with `wx:get_env/0` and set it in the new processes with `wx:set_env/1`. Two processes or applications which have both called `wx:new()` will not be able use each others objects.

```

wx:new(),
MyWin = wxFrame:new(wx:null(), 42, "Example", []),
Env = wx:get_env(),
spawn(fun() ->
    wx:set_env(Env),
    %% Here you can do wx calls from your helper process.
    ...
end),
...

```

When `wx:destroy/0` is invoked or when all processes in the application have died, the memory is deleted and all windows created by that application are closed.

1.1 wx the erlang binding of wxWidgets

The **wx** application never cleans or garbage collects memory as long as the user application is alive. Most of the objects are deleted when a window is closed, or at least all the objects which have a parent argument that is non null. By using `wxCLASS:destroy/1` when possible you can avoid an increasing memory usage. This is especially important when **wxWidgets** assumes or recommends that you (or rather the C++ programmer) have allocated the object on the stack since that will never be done in the erlang binding. For example `wxDC` class or its sub-classes or `wxSizerFlags`.

Currently the dialogs show modal function freezes `wxWidgets` until the dialog is closed. That is intended but in erlang where you can have several GUI applications running at the same time it causes trouble. This will hopefully be fixed in future **wxWidgets** releases.

1.1.4 Event Handling

Event handling in **wx** differs most from the original API. You must specify every event you want to handle in **wxWidgets**, that is the same in the erlang binding but you can choose to receive the events as messages or handle them with callback **fun**s.

Otherwise the event subscription is handled as **wxWidgets** dynamic event-handler connection. You subscribe to events of a certain type from objects with an **ID** or within a range of **IDs**. The callback **fun** is optional, if not supplied the event will be sent to the process that called `connect/2`. Thus, a handler is a callback **fun** or a process which will receive an event message.

Events are handled in order from bottom to top, in the widgets hierarchy, by the last subscribed handler first. Depending on if `wxEVENT:skip()` is called the event will be handled by the other handler(s) afterwards. Most of the events have default event handler(s) installed.

Message events looks like `#wx{id=integer(), obj=wx:wxObject(), userData=term(), event=Rec}`. The **id** is the identifier of the object that received the event. The **obj** field contains the object that you used `connect` on. The **userData** field contains a user supplied term, this is an option to `connect`. And the **event** field contains a record with event type dependent information. The first element in the event record is always the type you subscribed to. For example if you subscribed to **key_up** events you will receive the `#wx{event=Event}` where **Event** will be a `wxKey` event record where `Event#wxKey.type = key_up`.

In **wxWidgets** the developer has to call `wxEVENT:skip()` if he wants the event to be processed by other handlers. You can do the same in **wx** if you use callbacks. If you want the event as messages you just don't supply a callback and you can set the **skip** option in `connect` call to true or false, the default it is false. True means that you get the message but let the subsequent handlers also handle the event. If you want to change this behavior dynamically you must use callbacks and call `wxEVENT:skip()`.

Callback event handling is done by using the optional callback **fun/2** when attaching the handler. The `fun(#wx{},wxObject())` must take two arguments where the first is the same as with message events described above and the second is an object reference to the actual event object. With the event object you can call `wxEVENT:skip()` and access all the data. When using callbacks you must call `wxEVENT:skip()` by yourself if you want any of the events to be forwarded to the following handlers. The actual event objects are deleted after the **fun** returns.

The callbacks are always invoked by another process and have exclusive usage of the GUI when invoked. This means that a callback **fun** can not use the process dictionary and should not make calls to other processes. Calls to another process inside a callback **fun** may cause a deadlock if the other process is waiting on completion of his call to the GUI.

1.1.5 Acknowledgments

Mats-Ola Persson wrote the initial **wxWidgets** binding as part of his master thesis. The current version is a total re-write but many ideas have been reused. The reason for the re-write was mostly due to the limited requirements he had been given by us.

Also thanks to the **wxWidgets** team that develops and supports it so we have something to use.

2 Reference Manual

The **wxErlang** application is an api for writing graphical user interfaces with wxWidgets.

WX

Erlang module

A port of **wxWidgets**.

This is the base api of **wxWidgets**. This module contains functions for starting and stopping the wx-server, as well as other utility functions.

wxWidgets is object oriented, and not functional. Thus, in wxErlang a module represents a class, and the object created by this class has an own type, `wxCLASS()`. This module represents the base class, and all other `wxMODULE`'s are sub-classes of this class.

Objects of a class are created with `wxCLASS:new(...)` and destroyed with `wxCLASS:destroy()`. Member functions are called with `wxCLASS:member(Object, ...)` instead of as in C++ `Object.member(...)`.

Sub class modules inherit (non static) functions from their parents. The inherited functions are not documented in the sub-classes.

This erlang port of wxWidgets tries to be a one-to-one mapping with the original wxWidgets library. Some things are different though, as the optional arguments use property lists and can be in any order. The main difference is the event handling which is different from the original library. See `wxEvtHandler`.

The following classes are implemented directly as erlang types:

`wxPoint={x,y}`, `wxSize={w,h}`, `wxRect={x,y,w,h}`, `wxColour={r,g,b [a]}`, `wxString=unicode:chardata()`, `wxGBPosition={r,c}`, `wxGSpan={rs,cs}`, `wxGridCellCoords={r,c}`.

wxWidgets uses a process specific environment, which is created by `wx:new/0`. To be able to use the environment from other processes, call `get_env/0` to retrieve the environment and `set_env/I` to assign the environment in the other process.

Global (classless) functions are located in the `wx_misc` module.

DATA TYPES

`wx_colour() = {R::byte(), G::byte(), B::byte()} | wx_colour4()`

`wx_colour4() = {R::byte(), G::byte(), B::byte(), A::byte()}`

`wx_datetime() = {{Year::integer(), Month::integer(), Day::integer()}, {Hour::integer(), Minute::integer(), Second::integer()}}`

In Local Timezone

`wx_enum() = integer()`

Constant defined in `wx.hrl`

`wx_env() = #wx_env{ }`

Opaque process environment

`wx_memory() = binary() | #wx_mem{ }`

Opaque memory reference

`wx_object() = #wx_ref{ }`

Opaque object reference

`wx_wxHtmlLinkInfo() = #wxHtmlLinkInfo{href=unicode:chardata(), target=unicode:chardata()}`

```
wx_wxMouseState() = #wxMouseState{ x=integer(), y=integer(), leftDown=boolean(), middleDown=boolean(),
rightDown=boolean(), controlDown=boolean(), shiftDown=boolean(), altDown=boolean(), metaDown=boolean(),
cmdDown=boolean() }
```

See `#wxMouseState{ }` defined in `wx.hrl`

Exports

`parent_class(X1) -> term()`

`new() -> wx_object()`

Starts a wx server.

`new(Options :: [Option]) -> wx_object()`

Types:

`Option = {debug, list() | atom()} | {silent_start, boolean()}`

Starts a wx server. Option may be {debug, Level}, see `debug/1`. Or {silent_start, Bool}, which causes error messages at startup to be suppressed. The latter can be used as a silent test of whether wx is properly installed or not.

`destroy() -> ok`

Stops a wx server.

`get_env() -> wx_env()`

Gets this process's current wx environment. Can be sent to other processes to allow them use this process wx environment.

See also: `set_env/1`.

`set_env(Wx_env :: wx_env()) -> ok`

Sets the process wx environment, allows this process to use another process wx environment.

`null() -> wx_object()`

Returns the null object

`is_null(Wx_ref :: wx_object()) -> boolean()`

Returns true if object is null, false otherwise

`equal(Wx_ref :: wx_object(), X2 :: wx_object()) -> boolean()`

Returns true if both arguments references the same object, false otherwise

`getObjectType(Wx_ref :: wx_object()) -> atom()`

Returns the object type

typeCast(Old::wx_object(), NewType::atom()) -> wx_object()

Casts the object to class NewType. It is needed when using functions like wxWindow:findWindow/2, which returns a generic wxObject type.

batch(Fun::function()) -> term()

Batches all wx commands used in the fun. Improves performance of the command processing by grabbing the wxWidgets thread so that no event processing will be done before the complete batch of commands is invoked.

See also: *foldl/3, foldr/3, foreach/2, map/2*.

foreach(Fun::function(), List::list()) -> ok

Behaves like *lists:foreach/2* but batches wx commands. See *batch/1*.

map(Fun::function(), List::list()) -> list()

Behaves like *lists:map/2* but batches wx commands. See *batch/1*.

foldl(Fun::function(), Acc::term(), List::list()) -> term()

Behaves like *lists:foldl/3* but batches wx commands. See *batch/1*.

foldr(Fun::function(), Acc::term(), List::list()) -> term()

Behaves like *lists:foldr/3* but batches wx commands. See *batch/1*.

create_memory(Size::integer()) -> wx_memory()

Creates a memory area (of Size in bytes) which can be used by an external library (i.e. opengl). It is up to the client to keep a reference to this object so it does not get garbage collected by erlang while still in use by the external library.

This is far from erlang's intentional usage and can crash the erlang emulator. Use it carefully.

get_memory_bin(Wx_mem::wx_memory()) -> binary()

Returns the memory area as a binary.

retain_memory(Wx_mem::wx_memory()) -> ok

Saves the memory from deletion until release_memory/1 is called. If release_memory/1 is not called the memory will not be garbage collected.

release_memory(Wx_mem::wx_memory()) -> ok

debug(Debug::Level | [Level]) -> ok

Types:

Level = none | verbose | trace | driver | integer()

Sets debug level. If debug level is 'verbose' or 'trace' each call is printed on console. If Level is 'driver' each allocated object and deletion is printed on the console.

demo() -> ok | {error, atom()}

Starts a wxErlang demo if examples directory exists and is compiled

wx_object

Erlang module

wx_object - Generic wx object behaviour

This is a behaviour module that can be used for "sub classing" wx objects. It works like a regular gen_server module and creates a server per object.

NOTE: Currently no form of inheritance is implemented.

The user module should export:

init(Args) should return

{wxObject, State} | {wxObject, State, Timeout} | ignore | {stop, Reason}

Asynchronous window event handling:

handle_event(#wx{}, State) should return

{noreply, State} | {noreply, State, Timeout} | {stop, Reason, State}

The user module can export the following callback functions:

handle_call(Msg, {From, Tag}, State) should return

{reply, Reply, State} | {reply, Reply, State, Timeout} | {noreply, State} | {noreply, State, Timeout} | {stop, Reason, Reply, State}

handle_cast(Msg, State) should return

{noreply, State} | {noreply, State, Timeout} | {stop, Reason, State}

If the above are not exported but called, the wx_object process will crash. The user module can also export:

Info is message e.g. {'EXIT', P, R}, {nodedown, N}, ...

handle_info(Info, State) should return , ...

{noreply, State} | {noreply, State, Timeout} | {stop, Reason, State}

If a message is sent to the wx_object process when handle_info is not exported, the message will be dropped and ignored.

When stop is returned in one of the functions above with Reason = normal | shutdown | Term, terminate(State) is called. It lets the user module clean up, it is always called when server terminates or when wx_object() in the driver is deleted. If the Parent process terminates the Module:terminate/2 function is called.
terminate(Reason, State)

Example:

wx_object

```
-module(myDialog).
-export([new/2, show/1, destroy/1]). %% API
-export([init/1, handle_call/3, handle_event/2,
        handle_info/2, code_change/3, terminate/2]).
-new/2, showModal/1, destroy/1]). %% Callbacks

%% Client API
new(Parent, Msg) ->
    wx_object:start(?MODULE, [Parent, Id], []).

show(Dialog) ->
    wx_object:call(Dialog, show_modal).

destroy(Dialog) ->
    wx_object:call(Dialog, destroy).

%% Server Implementation ala gen_server
init([Parent, Str]) ->
    Dialog = wxDialog:new(Parent, 42, "Testing", []),
    ...
    wxDialog:connect(Dialog, command_button_clicked),
    {Dialog, MyState}.

handle_call(show, _From, State) ->
    wxDialog:show(State#state.win),
    {reply, ok, State};
...
handle_event(#wx{}, State) ->
    io:format("Users clicked button~n", []),
    {noreply, State};
...
```

Exports

`start(Name, Mod, Args, Options) -> wxWindow:wxWindow() | {error, term()}`

Types:

```
Name = {local, atom()}
Mod = atom()
Args = term()
Flag = trace | log | {logfile, string()} | statistics | debug
Options = [{timeout, timeout()} | {debug, [Flag]}]
```

Starts a generic wx_object server and invokes Mod:init(Args) in the new process.

`start_link(Mod, Args, Options) -> wxWindow:wxWindow() | {error, term()}`

Types:

```
Mod = atom()
Args = term()
Flag = trace | log | {logfile, string()} | statistics | debug
Options = [{timeout, timeout()} | {debug, [Flag]}]
```

Starts a generic wx_object server and invokes Mod:init(Args) in the new process.

`start_link(Name, Mod, Args, Options) -> wxWindow:wxWindow() | {error, term()}`

Types:

```

Name = {local, atom()}
Mod = atom()
Args = term()
Flag = trace | log | {logfile, string()} | statistics | debug
Options = [{timeout, timeout()} | {debug, [Flag]}]

```

Starts a generic wx_object server and invokes Mod:init(Args) in the new process.

stop(Obj) -> ok

Types:

```
Obj = wx:wx_object() | atom() | pid()
```

Stops a generic wx_object server with reason 'normal'. Invokes terminate(Reason,State) in the server. The call waits until the process is terminated. If the process does not exist, an exception is raised.

stop(Obj, Reason, Timeout) -> ok

Types:

```

Obj = wx:wx_object() | atom() | pid()
Reason = term()
Timeout = timeout()

```

Stops a generic wx_object server with the given Reason. Invokes terminate(Reason,State) in the server. The call waits until the process is terminated. If the call times out, or if the process does not exist, an exception is raised.

call(Obj, Request) -> term()

Types:

```

Obj = wx:wx_object() | atom() | pid()
Request = term()

```

Make a call to a wx_object server. The call waits until it gets a result. Invokes handle_call(Request, From, State) in the server

call(Obj, Request, Timeout) -> term()

Types:

```

Obj = wx:wx_object() | atom() | pid()
Request = term()
Timeout = integer()

```

Make a call to a wx_object server with a timeout. Invokes handle_call(Request, From, State) in server

cast(Obj, Request) -> ok

Types:

```

Obj = wx:wx_object() | atom() | pid()
Request = term()

```

Make a cast to a wx_object server. Invokes handle_cast(Request, State) in the server

get_pid(Obj) -> pid()

Types:

wx_object

Obj = wx:wx_object() | atom() | pid()

Get the pid of the object handle.

set_pid(Obj, Pid::pid()) -> wx:wx_object()

Types:

Obj = wx:wx_object() | atom() | pid()

Sets the controlling process of the object handle.

reply(X1:{pid(), Tag::term()}, Reply::term()) -> pid()

Get the pid of the object handle.

wxAcceleratorEntry

Erlang module

See external documentation: **wxAcceleratorEntry**.

DATA TYPES

`wxAcceleratorEntry()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxAcceleratorEntry()`

Equivalent to `new([])`.

`new(Options :: [Option]) -> wxAcceleratorEntry()`

Types:

```
Option = {flags, integer()} | {keyCode, integer()} | {cmd, integer()} |
{item, wxMenuItem:wxMenuItem()}
```

See **external documentation**.

Also:

`new(Entry) -> wxAcceleratorEntry()` when
Entry::`wxAcceleratorEntry()`.

`getCommand(This) -> integer()`

Types:

```
This = wxAcceleratorEntry()
```

See **external documentation**.

`getFlags(This) -> integer()`

Types:

```
This = wxAcceleratorEntry()
```

See **external documentation**.

`getKeyCode(This) -> integer()`

Types:

```
This = wxAcceleratorEntry()
```

See **external documentation**.

`set(This, Flags, KeyCode, Cmd) -> ok`

Types:

```
This = wxAcceleratorEntry()
```

wxAcceleratorEntry

```
Flags = integer()
KeyCode = integer()
Cmd = integer()
```

Equivalent to *set(This, Flags, KeyCode, Cmd, []).*

set(This, Flags, KeyCode, Cmd, Options:[Option]) -> ok

Types:

```
This = wxAcceleratorEntry()
Flags = integer()
KeyCode = integer()
Cmd = integer()
Option = {item, wxMenuItem:wxMenuItem()}
```

See [external documentation](#).

destroy(This::wxAcceleratorEntry()) -> ok

Destroys this object, do not use object again

wxAcceleratorTable

Erlang module

See external documentation: **wxAcceleratorTable**.

DATA TYPES

`wxAcceleratorTable()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxAcceleratorTable()`

See **external documentation**.

`new(N, Entries) -> wxAcceleratorTable()`

Types:

```
N = integer()  
Entries = [wxAcceleratorEntry:wxAcceleratorEntry()]
```

See **external documentation**.

`ok(This) -> boolean()`

Types:

```
This = wxAcceleratorTable()
```

See **external documentation**.

`destroy(This::wxAcceleratorTable()) -> ok`

Destroys this object, do not use object again

wxActivateEvent

Erlang module

See external documentation: **wxActivateEvent**.

Use *wxEvtHandler:connect/3* with EventType:

activate, activate_app, hibernate

See also the message variant `#wxActivate{}` event record type.

This class is derived (and can use functions) from:

wxEvent

DATA TYPES

`wxActivateEvent()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`getActive(This) -> boolean()`

Types:

`This = wxActivateEvent()`

See **external documentation**.

wxArtProvider

Erlang module

See external documentation: **wxArtProvider**.

DATA TYPES

`wxArtProvider()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`getBitmap(Id) -> wxBitmap:wxBitmap()`

Types:

`Id = unicode:chardata()`

Equivalent to `getBitmap(Id, [])`.

`getBitmap(Id, Options:[Option]) -> wxBitmap:wxBitmap()`

Types:

`Id = unicode:chardata()`

`Option = {client, unicode:chardata()} | {size, {W::integer(), H::integer()}}`

See external documentation.

`getIcon(Id) -> wxIcon:wxIcon()`

Types:

`Id = unicode:chardata()`

Equivalent to `getIcon(Id, [])`.

`getIcon(Id, Options:[Option]) -> wxIcon:wxIcon()`

Types:

`Id = unicode:chardata()`

`Option = {client, unicode:chardata()} | {size, {W::integer(), H::integer()}}`

See external documentation.

wxAuiDockArt

Erlang module

See external documentation: **wxAuiDockArt**.

DATA TYPES

wxAuiDockArt()

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

getColour(This, Id) -> wx:wx_colour4()

Types:

```
This = wxAuiDockArt()  
Id = integer()
```

See [external documentation](#).

getFont(This, Id) -> wxFont:wxFont()

Types:

```
This = wxAuiDockArt()  
Id = integer()
```

See [external documentation](#).

getMetric(This, Id) -> integer()

Types:

```
This = wxAuiDockArt()  
Id = integer()
```

See [external documentation](#).

setColour(This, Id, Colour) -> ok

Types:

```
This = wxAuiDockArt()  
Id = integer()  
Colour = wx:wx_colour()
```

See [external documentation](#).

setFont(This, Id, Font) -> ok

Types:

```
This = wxAuiDockArt()  
Id = integer()  
Font = wxFont:wxFont()
```

See [external documentation](#).

`setMetric(This, Id, New_val) -> ok`

Types:

```
This = wxAuiDockArt()  
Id = integer()  
New_val = integer()
```

See [external documentation](#).

wxAuiManager

Erlang module

See external documentation: **wxAuiManager**.

This class is derived (and can use functions) from:
wxEvtHandler

DATA TYPES

`wxAuiManager()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxAuiManager()`

Equivalent to `new([])`.

`new(Options:::[Option]) -> wxAuiManager()`

Types:

```
Option = {managed_wnd, wxWindow:wxWindow()} | {flags, integer()}
```

See **external documentation**.

`addPane(This, Window) -> boolean()`

Types:

```
This = wxAuiManager()
Window = wxWindow:wxWindow()
```

Equivalent to `addPane(This, Window, [])`.

`addPane(This, Window, Options:::[Option]) -> boolean()`

Types:

```
This = wxAuiManager()
Window = wxWindow:wxWindow()
Option = {direction, integer()} | {caption, unicode:chardata()}
```

See **external documentation**.

Also:

`addPane(This, Window, Pane_info) -> boolean()` when
This::wxAuiManager(), Window::wxWindow:wxWindow(), Pane_info::wxAuiPaneInfo:wxAuiPaneInfo().

`addPane(This, Window, Pane_info, Drop_pos) -> boolean()`

Types:

```
This = wxAuiManager()
Window = wxWindow:wxWindow()
```

```
Pane_info = wxAuiPaneInfo:wxAuiPaneInfo()
Drop_pos = {X::integer(), Y::integer()}
```

See [external documentation](#).

detachPane(This, Window) -> boolean()

Types:

```
This = wxAuiManager()
Window = wxWindow:wxWindow()
```

See [external documentation](#).

getAllPanes(This) -> [wxAuiPaneInfo:wxAuiPaneInfo()]

Types:

```
This = wxAuiManager()
```

See [external documentation](#).

getArtProvider(This) -> wxAuiDockArt:wxAuiDockArt()

Types:

```
This = wxAuiManager()
```

See [external documentation](#).

getDockSizeConstraint(This) -> {Width_pct::number(), Height_pct::number()}

Types:

```
This = wxAuiManager()
```

See [external documentation](#).

getFlags(This) -> integer()

Types:

```
This = wxAuiManager()
```

See [external documentation](#).

getManagedWindow(This) -> wxWindow:wxWindow()

Types:

```
This = wxAuiManager()
```

See [external documentation](#).

getManager(Window) -> wxAuiManager()

Types:

```
Window = wxWindow:wxWindow()
```

See [external documentation](#).

getPane(This, Name) -> wxAuiPaneInfo:wxAuiPaneInfo()

Types:

```
This = wxAuiManager()
```

wxAuiManager

```
Name = unicode:chardata()
```

See [external documentation](#).

Also:

getPane(This, Window) -> wxAuiPaneInfo:wxAuiPaneInfo() when
This::wxAuiManager(), Window::wxWindow:wxAuiManager().

hideHint(This) -> ok

Types:

```
This = wxAuiManager()
```

See [external documentation](#).

insertPane(This, Window, Insert_location) -> boolean()

Types:

```
This = wxAuiManager()
```

```
Window = wxWindow:wxAuiManager()
```

```
Insert_location = wxAuiPaneInfo:wxAuiPaneInfo()
```

Equivalent to *insertPane(This, Window, Insert_location, [])*.

insertPane(This, Window, Insert_location, Options::[Option]) -> boolean()

Types:

```
This = wxAuiManager()
```

```
Window = wxWindow:wxAuiManager()
```

```
Insert_location = wxAuiPaneInfo:wxAuiPaneInfo()
```

```
Option = {insert_level, integer()}
```

See [external documentation](#).

loadPaneInfo(This, Pane_part, Pane) -> ok

Types:

```
This = wxAuiManager()
```

```
Pane_part = unicode:chardata()
```

```
Pane = wxAuiPaneInfo:wxAuiPaneInfo()
```

See [external documentation](#).

loadPerspective(This, Perspective) -> boolean()

Types:

```
This = wxAuiManager()
```

```
Perspective = unicode:chardata()
```

Equivalent to *loadPerspective(This, Perspective, [])*.

loadPerspective(This, Perspective, Options::[Option]) -> boolean()

Types:

```
This = wxAuiManager()
```

```
Perspective = unicode:chardata()
```

```
Option = {update, boolean()}
```

See [external documentation](#).

savePaneInfo(This, Pane) -> unicode:charlist()

Types:

```
This = wxAuiManager()
```

```
Pane = wxAuiPaneInfo:wxAuiPaneInfo()
```

See [external documentation](#).

savePerspective(This) -> unicode:charlist()

Types:

```
This = wxAuiManager()
```

See [external documentation](#).

setArtProvider(This, Art_provider) -> ok

Types:

```
This = wxAuiManager()
```

```
Art_provider = wxAuiDockArt:wxAuiDockArt()
```

See [external documentation](#).

setDockSizeConstraint(This, Width_pct, Height_pct) -> ok

Types:

```
This = wxAuiManager()
```

```
Width_pct = number()
```

```
Height_pct = number()
```

See [external documentation](#).

setFlags(This, Flags) -> ok

Types:

```
This = wxAuiManager()
```

```
Flags = integer()
```

See [external documentation](#).

setManagedWindow(This, Managed_wnd) -> ok

Types:

```
This = wxAuiManager()
```

```
Managed_wnd = wxWindow:wxBWindow()
```

See [external documentation](#).

showHint(This, Rect) -> ok

Types:

```
This = wxAuiManager()
```

```
Rect = {X::integer(), Y::integer(), W::integer(), H::integer()}
```

wxAuiManager

See [external documentation](#).

`unInit(This) -> ok`

Types:

`This = wxAuiManager()`

See [external documentation](#).

`update(This) -> ok`

Types:

`This = wxAuiManager()`

See [external documentation](#).

`destroy(This::wxAuiManager()) -> ok`

Destroys this object, do not use object again

wxAuiManagerEvent

Erlang module

See external documentation: **wxAuiManagerEvent**.

Use *wxEvtHandler:connect/3* with EventType:

aui_pane_button, aui_pane_close, aui_pane_maximize, aui_pane_restore, aui_pane_activated, aui_render, aui_find_manager

See also the message variant `#wxAuiManager{}` event record type.

This class is derived (and can use functions) from:

wxEvent

DATA TYPES

`wxAuiManagerEvent()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`setManager(This, Mgr) -> ok`

Types:

```
This = wxAuiManagerEvent()
Mgr = wxAuiManager:wxAuiManager()
```

See **external documentation**.

`getManager(This) -> wxAuiManager:wxAuiManager()`

Types:

```
This = wxAuiManagerEvent()
```

See **external documentation**.

`setPane(This, P) -> ok`

Types:

```
This = wxAuiManagerEvent()
P = wxAuiPaneInfo:wxAuiPaneInfo()
```

See **external documentation**.

`getPane(This) -> wxAuiPaneInfo:wxAuiPaneInfo()`

Types:

```
This = wxAuiManagerEvent()
```

See **external documentation**.

wxAuiManagerEvent

`setButton(This, B) -> ok`

Types:

```
This = wxAuiManagerEvent()
B = integer()
```

See [external documentation](#).

`getButton(This) -> integer()`

Types:

```
This = wxAuiManagerEvent()
```

See [external documentation](#).

`setDC(This, Pdc) -> ok`

Types:

```
This = wxAuiManagerEvent()
Pdc = wxDC:wxDC()
```

See [external documentation](#).

`getDC(This) -> wxDC:wxDC()`

Types:

```
This = wxAuiManagerEvent()
```

See [external documentation](#).

`veto(This) -> ok`

Types:

```
This = wxAuiManagerEvent()
```

Equivalent to `veto(This, [])`.

`veto(This, Options::[Option]) -> ok`

Types:

```
This = wxAuiManagerEvent()
Option = {veto, boolean()}
```

See [external documentation](#).

`getVeto(This) -> boolean()`

Types:

```
This = wxAuiManagerEvent()
```

See [external documentation](#).

`setCanVeto(This, Can_veto) -> ok`

Types:

```
This = wxAuiManagerEvent()
Can_veto = boolean()
```

See [external documentation](#).

canVeto(This) -> boolean()

Types:

This = wxAuiManagerEvent()

See [external documentation](#).

wxAuiNotebook

Erlang module

See external documentation: **wxAuiNotebook**.

This class is derived (and can use functions) from:

wxControl

wxWindow

wxEvtHandler

DATA TYPES

`wxAuiNotebook()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxAuiNotebook()`

See **external documentation**.

`new(Parent) -> wxAuiNotebook()`

Types:

`Parent = wxWindow:wxWindow()`

Equivalent to `new(Parent, [])`.

`new(Parent, Options:[Option]) -> wxAuiNotebook()`

Types:

`Parent = wxWindow:wxWindow()`

`Option = {id, integer()} | {pos, {X::integer(), Y::integer()}} | {size, {W::integer(), H::integer()}} | {style, integer()}`

See **external documentation**.

`addPage(This, Page, Caption) -> boolean()`

Types:

`This = wxAuiNotebook()`

`Page = wxWindow:wxWindow()`

`Caption = unicode:chardata()`

Equivalent to `addPage(This, Page, Caption, [])`.

`addPage(This, Page, Caption, Options:[Option]) -> boolean()`

Types:

`This = wxAuiNotebook()`

`Page = wxWindow:wxWindow()`

```
Caption = unicode:chardata( )
Option = {select, boolean()} | {bitmap, wxBitmap:wxBitmap()}
```

See external documentation.

create(This, Parent) -> boolean()

Types:

```
This = wxAuiNotebook()
Parent = wxWindow:wxWindow()
```

Equivalent to *create(This, Parent, [])*.

create(This, Parent, Options::[Option]) -> boolean()

Types:

```
This = wxAuiNotebook()
Parent = wxWindow:wxWindow()
Option = {id, integer()} | {pos, {X::integer(), Y::integer()}} | {size,
{W::integer(), H::integer()}} | {style, integer()}
```

See external documentation.

deletePage(This, Page) -> boolean()

Types:

```
This = wxAuiNotebook()
Page = integer()
```

See external documentation.

getArtProvider(This) -> wxAuiTabArt:wxAuiTabArt()

Types:

```
This = wxAuiNotebook()
```

See external documentation.

getPage(This, Page_idx) -> wxWindow:wxWindow()

Types:

```
This = wxAuiNotebook()
Page_idx = integer()
```

See external documentation.

getPageBitmap(This, Page_idx) -> wxBitmap:wxBitmap()

Types:

```
This = wxAuiNotebook()
Page_idx = integer()
```

See external documentation.

getPageCount(This) -> integer()

Types:

wxAuiNotebook

This = wxAuiNotebook()

See [external documentation](#).

getPageIndex(This, Page_wnd) -> integer()

Types:

This = wxAuiNotebook()

Page_wnd = wxWindow:wxWindow()

See [external documentation](#).

getPageText(This, Page_idx) -> unicode:charlist()

Types:

This = wxAuiNotebook()

Page_idx = integer()

See [external documentation](#).

getSelection(This) -> integer()

Types:

This = wxAuiNotebook()

See [external documentation](#).

insertPage(This, Page_idx, Page, Caption) -> boolean()

Types:

This = wxAuiNotebook()

Page_idx = integer()

Page = wxWindow:wxWindow()

Caption = unicode:chardata()

Equivalent to *insertPage(This, Page_idx, Page, Caption, [])*.

insertPage(This, Page_idx, Page, Caption, Options:[Option]) -> boolean()

Types:

This = wxAuiNotebook()

Page_idx = integer()

Page = wxWindow:wxWindow()

Caption = unicode:chardata()

Option = {select, boolean()} | {bitmap, wxBitmap:wxBitmap()}

See [external documentation](#).

removePage(This, Page) -> boolean()

Types:

This = wxAuiNotebook()

Page = integer()

See [external documentation](#).

setArtProvider(This, Art) -> ok

Types:

```
This = wxAuiNotebook()
Art = wxAuiTabArt:wxAuiTabArt()
```

See [external documentation](#).

setFont(This, Font) -> boolean()

Types:

```
This = wxAuiNotebook()
Font = wxFont:wxFont()
```

See [external documentation](#).

setPageBitmap(This, Page, Bitmap) -> boolean()

Types:

```
This = wxAuiNotebook()
Page = integer()
Bitmap = wxBitmap:wxBitmap()
```

See [external documentation](#).

setPageText(This, Page, Text) -> boolean()

Types:

```
This = wxAuiNotebook()
Page = integer()
Text = unicode:chardata()
```

See [external documentation](#).

setSelection(This, New_page) -> integer()

Types:

```
This = wxAuiNotebook()
New_page = integer()
```

See [external documentation](#).

setTabCtrlHeight(This, Height) -> ok

Types:

```
This = wxAuiNotebook()
Height = integer()
```

See [external documentation](#).

setUniformBitmapSize(This, Size) -> ok

Types:

```
This = wxAuiNotebook()
Size = {W::integer(), H::integer()}
```

See [external documentation](#).

wxAuiNotebook

`destroy(This::wxAuiNotebook()) -> ok`

Destroys this object, do not use object again

wxAuiNotebookEvent

Erlang module

See external documentation: **wxAuiNotebookEvent**.

Use *wxEvtHandler:connect/3* with EventType:

```
command_auinotebook_page_close,
command_auinotebook_page_changing,
command_auinotebook_begin_drag,
command_auinotebook_drag_motion,
command_auinotebook_tab_middle_down,
command_auinotebook_tab_right_down,
command_auinotebook_page_closed,
command_auinotebook_bg_dclick
```

```
command_auinotebook_page_changed,
command_auinotebook_button,
command_auinotebook_end_drag,
command_auinotebook_allow_dnd,
command_auinotebook_tab_middle_up,
command_auinotebook_tab_right_up,
command_auinotebook_drag_done,
```

See also the message variant `#wxAuiNotebook{}` event record type.

This class is derived (and can use functions) from:

```
wxNotifyEvent
wxCommandEvent
wxEvent
```

DATA TYPES

`wxAuiNotebookEvent()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`setSelection(This, S) -> ok`

Types:

```
This = wxAuiNotebookEvent()
S = integer()
```

See **external documentation**.

`getSelection(This) -> integer()`

Types:

```
This = wxAuiNotebookEvent()
```

See **external documentation**.

`setOldSelection(This, S) -> ok`

Types:

```
This = wxAuiNotebookEvent()
S = integer()
```

See **external documentation**.

wxAuiNotebookEvent

`getOldSelection(This) -> integer()`

Types:

`This = wxAuiNotebookEvent()`

See [external documentation](#).

`setDragSource(This, S) -> ok`

Types:

`This = wxAuiNotebookEvent()`
`S = wxAuiNotebook:wxAuiNotebook()`

See [external documentation](#).

`getDragSource(This) -> wxAuiNotebook:wxAuiNotebook()`

Types:

`This = wxAuiNotebookEvent()`

See [external documentation](#).

wxAuiPanelInfo

Erlang module

See external documentation: **wxAuiPaneInfo**.

DATA TYPES

`wxAuiPanelInfo()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxAuiPanelInfo()`

See **external documentation**.

`new(C) -> wxAuiPanelInfo()`

Types:

`C = wxAuiPanelInfo()`

See **external documentation**.

`bestSize(This, Size) -> wxAuiPanelInfo()`

Types:

`This = wxAuiPanelInfo()`

`Size = {W::integer(), H::integer()}`

See **external documentation**.

`bestSize(This, X, Y) -> wxAuiPanelInfo()`

Types:

`This = wxAuiPanelInfo()`

`X = integer()`

`Y = integer()`

See **external documentation**.

`bottom(This) -> wxAuiPanelInfo()`

Types:

`This = wxAuiPanelInfo()`

See **external documentation**.

`bottomDockable(This) -> wxAuiPanelInfo()`

Types:

`This = wxAuiPanelInfo()`

Equivalent to `bottomDockable(This, [])`.

wxAuiPanelInfo

`bottomDockable(This, Options::[Option]) -> wxAuiPaneInfo()`

Types:

```
This = wxAuiPaneInfo()
Option = {b, boolean()}
```

See [external documentation](#).

`caption(This, C) -> wxAuiPaneInfo()`

Types:

```
This = wxAuiPaneInfo()
C = unicode:chardata()
```

See [external documentation](#).

`captionVisible(This) -> wxAuiPaneInfo()`

Types:

```
This = wxAuiPaneInfo()
```

Equivalent to `captionVisible(This, [])`.

`captionVisible(This, Options::[Option]) -> wxAuiPaneInfo()`

Types:

```
This = wxAuiPaneInfo()
Option = {visible, boolean()}
```

See [external documentation](#).

`centre(This) -> wxAuiPaneInfo()`

Types:

```
This = wxAuiPaneInfo()
```

See [external documentation](#).

`centrePane(This) -> wxAuiPaneInfo()`

Types:

```
This = wxAuiPaneInfo()
```

See [external documentation](#).

`closeButton(This) -> wxAuiPaneInfo()`

Types:

```
This = wxAuiPaneInfo()
```

Equivalent to `closeButton(This, [])`.

`closeButton(This, Options::[Option]) -> wxAuiPaneInfo()`

Types:

```
This = wxAuiPaneInfo()
Option = {visible, boolean()}
```

See [external documentation](#).

```
defaultPane(This) -> wxAuiPaneInfo()
```

Types:

```
  This = wxAuiPaneInfo()
```

See **external documentation**.

```
destroyOnClose(This) -> wxAuiPaneInfo()
```

Types:

```
  This = wxAuiPaneInfo()
```

Equivalent to *destroyOnClose(This, [])*.

```
destroyOnClose(This, Options::[Option]) -> wxAuiPaneInfo()
```

Types:

```
  This = wxAuiPaneInfo()
```

```
  Option = {b, boolean()}
```

See **external documentation**.

```
direction(This, Direction) -> wxAuiPaneInfo()
```

Types:

```
  This = wxAuiPaneInfo()
```

```
  Direction = integer()
```

See **external documentation**.

```
dock(This) -> wxAuiPaneInfo()
```

Types:

```
  This = wxAuiPaneInfo()
```

See **external documentation**.

```
dockable(This) -> wxAuiPaneInfo()
```

Types:

```
  This = wxAuiPaneInfo()
```

Equivalent to *dockable(This, [])*.

```
dockable(This, Options::[Option]) -> wxAuiPaneInfo()
```

Types:

```
  This = wxAuiPaneInfo()
```

```
  Option = {b, boolean()}
```

See **external documentation**.

```
fixed(This) -> wxAuiPaneInfo()
```

Types:

```
  This = wxAuiPaneInfo()
```

See **external documentation**.

wxAuiPanelInfo

`float(This) -> wxAuiPaneInfo()`

Types:

`This = wxAuiPaneInfo()`

See [external documentation](#).

`floatable(This) -> wxAuiPaneInfo()`

Types:

`This = wxAuiPaneInfo()`

Equivalent to `floatable(This, [])`.

`floatable(This, Options::[Option]) -> wxAuiPaneInfo()`

Types:

`This = wxAuiPaneInfo()`

`Option = {b, boolean()}`

See [external documentation](#).

`floatingPosition(This, Pos) -> wxAuiPaneInfo()`

Types:

`This = wxAuiPaneInfo()`

`Pos = {x::integer(), y::integer()}`

See [external documentation](#).

`floatingPosition(This, X, Y) -> wxAuiPaneInfo()`

Types:

`This = wxAuiPaneInfo()`

`X = integer()`

`Y = integer()`

See [external documentation](#).

`floatingSize(This, Size) -> wxAuiPaneInfo()`

Types:

`This = wxAuiPaneInfo()`

`Size = {W::integer(), H::integer()}`

See [external documentation](#).

`floatingSize(This, X, Y) -> wxAuiPaneInfo()`

Types:

`This = wxAuiPaneInfo()`

`X = integer()`

`Y = integer()`

See [external documentation](#).

gripper(This) -> wxAuiPaneInfo()

Types:

This = wxAuiPaneInfo()

Equivalent to *gripper(This, [])*.

gripper(This, Options::[Option]) -> wxAuiPaneInfo()

Types:

This = wxAuiPaneInfo()

Option = {visible, boolean()}

See **external documentation**.

gripperTop(This) -> wxAuiPaneInfo()

Types:

This = wxAuiPaneInfo()

Equivalent to *gripperTop(This, [])*.

gripperTop(This, Options::[Option]) -> wxAuiPaneInfo()

Types:

This = wxAuiPaneInfo()

Option = {attop, boolean()}

See **external documentation**.

hasBorder(This) -> boolean()

Types:

This = wxAuiPaneInfo()

See **external documentation**.

hasCaption(This) -> boolean()

Types:

This = wxAuiPaneInfo()

See **external documentation**.

hasCloseButton(This) -> boolean()

Types:

This = wxAuiPaneInfo()

See **external documentation**.

hasFlag(This, Flag) -> boolean()

Types:

This = wxAuiPaneInfo()

Flag = integer()

See **external documentation**.

wxAuiPanelInfo

hasGripper(This) -> boolean()

Types:

This = wxAuiPaneInfo()

See [external documentation](#).

hasGripperTop(This) -> boolean()

Types:

This = wxAuiPaneInfo()

See [external documentation](#).

hasMaximizeButton(This) -> boolean()

Types:

This = wxAuiPaneInfo()

See [external documentation](#).

hasMinimizeButton(This) -> boolean()

Types:

This = wxAuiPaneInfo()

See [external documentation](#).

hasPinButton(This) -> boolean()

Types:

This = wxAuiPaneInfo()

See [external documentation](#).

hide(This) -> wxAuiPaneInfo()

Types:

This = wxAuiPaneInfo()

See [external documentation](#).

isBottomDockable(This) -> boolean()

Types:

This = wxAuiPaneInfo()

See [external documentation](#).

isDocked(This) -> boolean()

Types:

This = wxAuiPaneInfo()

See [external documentation](#).

isFixed(This) -> boolean()

Types:

This = wxAuiPaneInfo()

See [external documentation](#).

`isFloatable(This) -> boolean()`

Types:

`This = wxAuiPaneInfo()`

See [external documentation](#).

`isFloating(This) -> boolean()`

Types:

`This = wxAuiPaneInfo()`

See [external documentation](#).

`isLeftDockable(This) -> boolean()`

Types:

`This = wxAuiPaneInfo()`

See [external documentation](#).

`isMovable(This) -> boolean()`

Types:

`This = wxAuiPaneInfo()`

See [external documentation](#).

`isOk(This) -> boolean()`

Types:

`This = wxAuiPaneInfo()`

See [external documentation](#).

`isResizable(This) -> boolean()`

Types:

`This = wxAuiPaneInfo()`

See [external documentation](#).

`isRightDockable(This) -> boolean()`

Types:

`This = wxAuiPaneInfo()`

See [external documentation](#).

`isShown(This) -> boolean()`

Types:

`This = wxAuiPaneInfo()`

See [external documentation](#).

wxAuiPanelInfo

`isToolbar(This) -> boolean()`

Types:

`This = wxAuiPaneInfo()`

See [external documentation](#).

`isTopDockable(This) -> boolean()`

Types:

`This = wxAuiPaneInfo()`

See [external documentation](#).

`layer(This, Layer) -> wxAuiPaneInfo()`

Types:

`This = wxAuiPaneInfo()`

`Layer = integer()`

See [external documentation](#).

`left(This) -> wxAuiPaneInfo()`

Types:

`This = wxAuiPaneInfo()`

See [external documentation](#).

`leftDockable(This) -> wxAuiPaneInfo()`

Types:

`This = wxAuiPaneInfo()`

Equivalent to `leftDockable(This, [])`.

`leftDockable(This, Options::[Option]) -> wxAuiPaneInfo()`

Types:

`This = wxAuiPaneInfo()`

`Option = {b, boolean()}`

See [external documentation](#).

`maxSize(This, Size) -> wxAuiPaneInfo()`

Types:

`This = wxAuiPaneInfo()`

`Size = {W::integer(), H::integer()}`

See [external documentation](#).

`maxSize(This, X, Y) -> wxAuiPaneInfo()`

Types:

`This = wxAuiPaneInfo()`

`X = integer()`

`Y = integer()`

See [external documentation](#).

`maximizeButton(This) -> wxAuiPaneInfo()`

Types:

`This = wxAuiPaneInfo()`

Equivalent to `maximizeButton(This, [])`.

`maximizeButton(This, Options::[Option]) -> wxAuiPaneInfo()`

Types:

`This = wxAuiPaneInfo()`

`Option = {visible, boolean()}`

See [external documentation](#).

`minSize(This, Size) -> wxAuiPaneInfo()`

Types:

`This = wxAuiPaneInfo()`

`Size = {W::integer(), H::integer()}`

See [external documentation](#).

`minSize(This, X, Y) -> wxAuiPaneInfo()`

Types:

`This = wxAuiPaneInfo()`

`X = integer()`

`Y = integer()`

See [external documentation](#).

`minimizeButton(This) -> wxAuiPaneInfo()`

Types:

`This = wxAuiPaneInfo()`

Equivalent to `minimizeButton(This, [])`.

`minimizeButton(This, Options::[Option]) -> wxAuiPaneInfo()`

Types:

`This = wxAuiPaneInfo()`

`Option = {visible, boolean()}`

See [external documentation](#).

`movable(This) -> wxAuiPaneInfo()`

Types:

`This = wxAuiPaneInfo()`

Equivalent to `movable(This, [])`.

wxAuiPanelInfo

movable(This, Options::[Option]) -> wxAuiPaneInfo()

Types:

```
This = wxAuiPaneInfo()
Option = {b, boolean()}
```

See [external documentation](#).

name(This, N) -> wxAuiPaneInfo()

Types:

```
This = wxAuiPaneInfo()
N = unicode:chardata()
```

See [external documentation](#).

paneBorder(This) -> wxAuiPaneInfo()

Types:

```
This = wxAuiPaneInfo()
```

Equivalent to *paneBorder(This, [])*.

paneBorder(This, Options::[Option]) -> wxAuiPaneInfo()

Types:

```
This = wxAuiPaneInfo()
Option = {visible, boolean()}
```

See [external documentation](#).

pinButton(This) -> wxAuiPaneInfo()

Types:

```
This = wxAuiPaneInfo()
```

Equivalent to *pinButton(This, [])*.

pinButton(This, Options::[Option]) -> wxAuiPaneInfo()

Types:

```
This = wxAuiPaneInfo()
Option = {visible, boolean()}
```

See [external documentation](#).

position(This, Pos) -> wxAuiPaneInfo()

Types:

```
This = wxAuiPaneInfo()
Pos = integer()
```

See [external documentation](#).

resizable(This) -> wxAuiPaneInfo()

Types:

```
This = wxAuiPaneInfo()
```

Equivalent to *resizable*(*This*, []).

resizable(*This*, *Options*::[*Option*]) -> *wxAuiPaneInfo*()

Types:

```
This = wxAuiPaneInfo()
Option = {resizable, boolean()}
```

See **external documentation**.

right(*This*) -> *wxAuiPaneInfo*()

Types:

```
This = wxAuiPaneInfo()
```

See **external documentation**.

rightDockable(*This*) -> *wxAuiPaneInfo*()

Types:

```
This = wxAuiPaneInfo()
```

Equivalent to *rightDockable*(*This*, []).

rightDockable(*This*, *Options*::[*Option*]) -> *wxAuiPaneInfo*()

Types:

```
This = wxAuiPaneInfo()
Option = {b, boolean()}
```

See **external documentation**.

row(*This*, *Row*) -> *wxAuiPaneInfo*()

Types:

```
This = wxAuiPaneInfo()
Row = integer()
```

See **external documentation**.

safeSet(*This*, *Source*) -> *ok*

Types:

```
This = wxAuiPaneInfo()
Source = wxAuiPaneInfo()
```

See **external documentation**.

setFlag(*This*, *Flag*, *Option_state*) -> *wxAuiPaneInfo*()

Types:

```
This = wxAuiPaneInfo()
Flag = integer()
Option_state = boolean()
```

See **external documentation**.

wxAuiPanelInfo

`show(This) -> wxAuiPaneInfo()`

Types:

`This = wxAuiPaneInfo()`

Equivalent to `show(This, [])`.

`show(This, Options::[Option]) -> wxAuiPaneInfo()`

Types:

`This = wxAuiPaneInfo()`
`Option = {show, boolean()}`

See [external documentation](#).

`toolbarPane(This) -> wxAuiPaneInfo()`

Types:

`This = wxAuiPaneInfo()`

See [external documentation](#).

`top(This) -> wxAuiPaneInfo()`

Types:

`This = wxAuiPaneInfo()`

See [external documentation](#).

`topDockable(This) -> wxAuiPaneInfo()`

Types:

`This = wxAuiPaneInfo()`

Equivalent to `topDockable(This, [])`.

`topDockable(This, Options::[Option]) -> wxAuiPaneInfo()`

Types:

`This = wxAuiPaneInfo()`
`Option = {b, boolean()}`

See [external documentation](#).

`window(This, W) -> wxAuiPaneInfo()`

Types:

`This = wxAuiPaneInfo()`
`W = wxWindow:wxWindow()`

See [external documentation](#).

`getWindow(This) -> wxWindow:wxWindow()`

Types:

`This = wxAuiPaneInfo()`

See [external documentation](#).

getFrame(This) -> wxFrame:wxFrame()

Types:

This = wxAuiPaneInfo()

See **external documentation**.

getDirection(This) -> integer()

Types:

This = wxAuiPaneInfo()

See **external documentation**.

getLayer(This) -> integer()

Types:

This = wxAuiPaneInfo()

See **external documentation**.

getRow(This) -> integer()

Types:

This = wxAuiPaneInfo()

See **external documentation**.

getPosition(This) -> integer()

Types:

This = wxAuiPaneInfo()

See **external documentation**.

getFloatingPosition(This) -> {X::integer(), Y::integer()}

Types:

This = wxAuiPaneInfo()

See **external documentation**.

getFloatingSize(This) -> {W::integer(), H::integer()}

Types:

This = wxAuiPaneInfo()

See **external documentation**.

destroy(This::wxAuiPaneInfo()) -> ok

Destroys this object, do not use object again

wxAuiSimpleTabArt

Erlang module

See external documentation: **wxAuiSimpleTabArt**.

This class is derived (and can use functions) from:
wxAuiTabArt

DATA TYPES

wxAuiSimpleTabArt()

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

new() -> wxAuiSimpleTabArt()

See **external documentation**.

destroy(This :: wxAuiSimpleTabArt()) -> ok

Destroys this object, do not use object again

wxAuiTabArt

Erlang module

See external documentation: **wxAuiTabArt**.

DATA TYPES

wxAuiTabArt()

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

setFlags(This, Flags) -> ok

Types:

```
This = wxAuiTabArt()  
Flags = integer()
```

See **external documentation**.

setMeasuringFont(This, Font) -> ok

Types:

```
This = wxAuiTabArt()  
Font = wxFont:wxFont()
```

See **external documentation**.

setNormalFont(This, Font) -> ok

Types:

```
This = wxAuiTabArt()  
Font = wxFont:wxFont()
```

See **external documentation**.

setSelectedFont(This, Font) -> ok

Types:

```
This = wxAuiTabArt()  
Font = wxFont:wxFont()
```

See **external documentation**.

setColour(This, Colour) -> ok

Types:

```
This = wxAuiTabArt()  
Colour = wx:wx_colour()
```

See **external documentation**.

wxAuiTabArt

`setActiveColour(This, Colour) -> ok`

Types:

```
This = wxAuiTabArt()  
Colour = wx:wx_colour()
```

See [external documentation](#).

wxBitmap

Erlang module

See external documentation: [wxBitmap](#).

DATA TYPES

`wxBitmap()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxBitmap()`

See [external documentation](#).

`new(Filename) -> wxBitmap()`

Types:

`Filename = unicode:chardata()`

See [external documentation](#).

Also:

`new(Image) -> wxBitmap()` when

`Image::wxImage:wxImage()`.

Type = ?wxBITMAP_TYPE_INVALID | ?wxBITMAP_TYPE_BMP | ?wxBITMAP_TYPE_BMP_RESOURCE
 | ?wxBITMAP_TYPE_RESOURCE | ?wxBITMAP_TYPE_ICO | ?wxBITMAP_TYPE_ICO_RESOURCE
 | ?wxBITMAP_TYPE_CUR | ?wxBITMAP_TYPE_CUR_RESOURCE | ?wxBITMAP_TYPE_XBM | ?
`wxBITMAP_TYPE_XBM_DATA` | ?wxBITMAP_TYPE_XPM | ?wxBITMAP_TYPE_XPM_DATA | ?
`wxBITMAP_TYPE_TIF` | ?wxBITMAP_TYPE_TIF_RESOURCE | ?wxBITMAP_TYPE_GIF | ?
`wxBITMAP_TYPE_GIF_RESOURCE` | ?wxBITMAP_TYPE_PNG | ?wxBITMAP_TYPE_PNG_RESOURCE
 | ?wxBITMAP_TYPE_JPEG | ?wxBITMAP_TYPE_JPEG_RESOURCE | ?wxBITMAP_TYPE_PNM | ?
`wxBITMAP_TYPE_PNM_RESOURCE` | ?wxBITMAP_TYPE_PCX | ?wxBITMAP_TYPE_PCX_RESOURCE
 | ?wxBITMAP_TYPE_PICT | ?wxBITMAP_TYPE_PICT_RESOURCE | ?wxBITMAP_TYPE_ICON | ?
`wxBITMAP_TYPE_ICON_RESOURCE` | ?wxBITMAP_TYPE_ANI | ?wxBITMAP_TYPE_IFF | ?
`wxBITMAP_TYPE_TGA` | ?wxBITMAP_TYPE_MACCURSOR | ?
`wxBITMAP_TYPE_MACCURSOR_RESOURCE` | ?wxBITMAP_TYPE_ANY

`new(Width, Height) -> wxBitmap()`

Types:

`Width = integer()`
`Height = integer()`

See [external documentation](#).

Also:

`new(Filename, [Option]) -> wxBitmap()` when

`Filename::unicode:chardata()`,

`Option :: {'type', wx:wx_enum()}`;

`(Image, [Option]) -> wxBitmap()` when

wxBitmap

Image::wxImage:wxImage(),
Option :: {'depth', integer()}.

Type = ?wxBITMAP_TYPE_INVALID | ?wxBITMAP_TYPE_BMP | ?wxBITMAP_TYPE_BMP_RESOURCE
| ?wxBITMAP_TYPE_RESOURCE | ?wxBITMAP_TYPE_ICO | ?wxBITMAP_TYPE_ICO_RESOURCE
| ?wxBITMAP_TYPE_CUR | ?wxBITMAP_TYPE_CUR_RESOURCE | ?wxBITMAP_TYPE_XBM | ?
wxBITMAP_TYPE_XBM_DATA | ?wxBITMAP_TYPE_XPM | ?wxBITMAP_TYPE_XPM_DATA | ?
wxBITMAP_TYPE_TIF | ?wxBITMAP_TYPE_TIF_RESOURCE | ?wxBITMAP_TYPE_GIF | ?
wxBITMAP_TYPE_GIF_RESOURCE | ?wxBITMAP_TYPE_PNG | ?wxBITMAP_TYPE_PNG_RESOURCE
| ?wxBITMAP_TYPE_JPEG | ?wxBITMAP_TYPE_JPEG_RESOURCE | ?wxBITMAP_TYPE_PNM | ?
wxBITMAP_TYPE_PNM_RESOURCE | ?wxBITMAP_TYPE_PCX | ?wxBITMAP_TYPE_PCX_RESOURCE
| ?wxBITMAP_TYPE_PICT | ?wxBITMAP_TYPE_PICT_RESOURCE | ?wxBITMAP_TYPE_ICON | ?
wxBITMAP_TYPE_ICON_RESOURCE | ?wxBITMAP_TYPE_ANI | ?wxBITMAP_TYPE_IFF | ?
wxBITMAP_TYPE_TGA | ?wxBITMAP_TYPE_MACCURSOR | ?
wxBITMAP_TYPE_MACCURSOR_RESOURCE | ?wxBITMAP_TYPE_ANY

new(Bits, Width, Height) -> wxBitmap()

Types:

```
Bits = binary()  
Width = integer()  
Height = integer()
```

See [external documentation](#).

Also:

new(Width, Height, [Option]) -> wxBitmap() when
Width::integer(), Height::integer(),
Option :: {'depth', integer()}.

new(Bits, Width, Height, Options::[Option]) -> wxBitmap()

Types:

```
Bits = binary()  
Width = integer()  
Height = integer()  
Option = {depth, integer()}
```

See [external documentation](#).

convertToImage(This) -> wxImage:wxImage()

Types:

```
This = wxBitmap()
```

See [external documentation](#).

copyFromIcon(This, Icon) -> boolean()

Types:

```
This = wxBitmap()  
Icon = wxIcon:wxIcon()
```

See [external documentation](#).

```
create(This, Width, Height) -> boolean()
```

Types:

```
  This = wxBitmap()
  Width = integer()
  Height = integer()
```

Equivalent to *create(This, Width, Height, [])*.

```
create(This, Width, Height, Options:[Option]) -> boolean()
```

Types:

```
  This = wxBitmap()
  Width = integer()
  Height = integer()
  Option = {depth, integer()}
```

See **external documentation**.

```
getDepth(This) -> integer()
```

Types:

```
  This = wxBitmap()
```

See **external documentation**.

```
getHeight(This) -> integer()
```

Types:

```
  This = wxBitmap()
```

See **external documentation**.

```
getPalette(This) -> wxPalette:wxPalette()
```

Types:

```
  This = wxBitmap()
```

See **external documentation**.

```
getMask(This) -> wxMask:wxMask()
```

Types:

```
  This = wxBitmap()
```

See **external documentation**.

```
getWidth(This) -> integer()
```

Types:

```
  This = wxBitmap()
```

See **external documentation**.

```
getSubBitmap(This, Rect) -> wxBitmap()
```

Types:

```
  This = wxBitmap()
```

wxBitmap

```
Rect = {X::integer(), Y::integer(), W::integer(), H::integer()}
```

See [external documentation](#).

`loadFile(This, Name) -> boolean()`

Types:

```
This = wxBitmap()
Name = unicode:chardata()
```

Equivalent to `loadFile(This, Name, [])`.

`loadFile(This, Name, Options:[Option]) -> boolean()`

Types:

```
This = wxBitmap()
Name = unicode:chardata()
Option = {type, wx:wx_enum()}
```

See [external documentation](#).

Type = ?wxBITMAP_TYPE_INVALID | ?wxBITMAP_TYPE_BMP | ?wxBITMAP_TYPE_BMP_RESOURCE
| ?wxBITMAP_TYPE_RESOURCE | ?wxBITMAP_TYPE_ICO | ?wxBITMAP_TYPE_ICO_RESOURCE
| ?wxBITMAP_TYPE_CUR | ?wxBITMAP_TYPE_CUR_RESOURCE | ?wxBITMAP_TYPE_XBM | ?
wxBITMAP_TYPE_XBM_DATA | ?wxBITMAP_TYPE_XPM | ?wxBITMAP_TYPE_XPM_DATA | ?
wxBITMAP_TYPE_TIF | ?wxBITMAP_TYPE_TIF_RESOURCE | ?wxBITMAP_TYPE_GIF | ?
wxBITMAP_TYPE_GIF_RESOURCE | ?wxBITMAP_TYPE_PNG | ?wxBITMAP_TYPE_PNG_RESOURCE
| ?wxBITMAP_TYPE_JPEG | ?wxBITMAP_TYPE_JPEG_RESOURCE | ?wxBITMAP_TYPE_PNM | ?
wxBITMAP_TYPE_PNM_RESOURCE | ?wxBITMAP_TYPE_PCX | ?wxBITMAP_TYPE_PCX_RESOURCE
| ?wxBITMAP_TYPE_PICT | ?wxBITMAP_TYPE_PICT_RESOURCE | ?wxBITMAP_TYPE_ICON | ?
wxBITMAP_TYPE_ICON_RESOURCE | ?wxBITMAP_TYPE_ANI | ?wxBITMAP_TYPE_IFF | ?
wxBITMAP_TYPE_TGA | ?wxBITMAP_TYPE_MACCURSOR | ?
wxBITMAP_TYPE_MACCURSOR_RESOURCE | ?wxBITMAP_TYPE_ANY

`ok(This) -> boolean()`

Types:

```
This = wxBitmap()
```

See [external documentation](#).

`saveFile(This, Name, Type) -> boolean()`

Types:

```
This = wxBitmap()
Name = unicode:chardata()
Type = wx:wx_enum()
```

Equivalent to `saveFile(This, Name, Type, [])`.

`saveFile(This, Name, Type, Options:[Option]) -> boolean()`

Types:

```
This = wxBitmap()
Name = unicode:chardata()
Type = wx:wx_enum()
```

```
Option = {palette, wxPalette:wxPalette()}
```

See [external documentation](#).

```
Type = ?wxBITMAP_TYPE_INVALID | ?wxBITMAP_TYPE_BMP | ?wxBITMAP_TYPE_BMP_RESOURCE
| ?wxBITMAP_TYPE_RESOURCE | ?wxBITMAP_TYPE_ICO | ?wxBITMAP_TYPE_ICO_RESOURCE
| ?wxBITMAP_TYPE_CUR | ?wxBITMAP_TYPE_CUR_RESOURCE | ?wxBITMAP_TYPE_XBM | ?
wxBITMAP_TYPE_XBM_DATA | ?wxBITMAP_TYPE_XPM | ?wxBITMAP_TYPE_XPM_DATA | ?
wxBITMAP_TYPE_TIF | ?wxBITMAP_TYPE_TIF_RESOURCE | ?wxBITMAP_TYPE_GIF | ?
wxBITMAP_TYPE_GIF_RESOURCE | ?wxBITMAP_TYPE_PNG | ?wxBITMAP_TYPE_PNG_RESOURCE
| ?wxBITMAP_TYPE_JPEG | ?wxBITMAP_TYPE_JPEG_RESOURCE | ?wxBITMAP_TYPE_PNM | ?
wxBITMAP_TYPE_PNM_RESOURCE | ?wxBITMAP_TYPE_PCX | ?wxBITMAP_TYPE_PCX_RESOURCE
| ?wxBITMAP_TYPE_PICT | ?wxBITMAP_TYPE_PICT_RESOURCE | ?wxBITMAP_TYPE_ICON | ?
wxBITMAP_TYPE_ICON_RESOURCE | ?wxBITMAP_TYPE_ANI | ?wxBITMAP_TYPE_IFF | ?
wxBITMAP_TYPE_TGA | ?wxBITMAP_TYPE_MACCURSOR | ?wxBITMAP_TYPE_MACCURSOR_RESOURCE | ?
wxBITMAP_TYPE_MACCURSOR_RESOURCE | ?wxBITMAP_TYPE_ANY
```

setDepth(This, Depth) -> ok

Types:

```
This = wxBitmap()
Depth = integer()
```

See [external documentation](#).

setHeight(This, Height) -> ok

Types:

```
This = wxBitmap()
Height = integer()
```

See [external documentation](#).

setMask(This, Mask) -> ok

Types:

```
This = wxBitmap()
Mask = wxMask:wxMask()
```

See [external documentation](#).

setPalette(This, Palette) -> ok

Types:

```
This = wxBitmap()
Palette = wxPalette:wxPalette()
```

See [external documentation](#).

setWidth(This, Width) -> ok

Types:

```
This = wxBitmap()
Width = integer()
```

See [external documentation](#).

wxBitmap

`destroy(This::wxBitmap()) -> ok`

Destroys this object, do not use object again

wxBitmapButton

Erlang module

See external documentation: **wxBitmapButton**.

This class is derived (and can use functions) from:

wxButton
wxControl
wxWindow
wxEvtHandler

DATA TYPES

`wxBitmapButton()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxBitmapButton()`

See **external documentation**.

`new(Parent, Id, Bitmap) -> wxBitmapButton()`

Types:

```
Parent = wxWindow:wxWindow()  
Id = integer()  
Bitmap = wxBitmap:wxBitmap()
```

Equivalent to `new(Parent, Id, Bitmap, [])`.

`new(Parent, Id, Bitmap, Options:[Option]) -> wxBitmapButton()`

Types:

```
Parent = wxWindow:wxWindow()  
Id = integer()  
Bitmap = wxBitmap:wxBitmap()  
Option = {pos, {X::integer(), Y::integer()}} | {size, {W::integer(),  
H::integer()}} | {style, integer()} | {validator, wx:wx_object()}
```

See **external documentation**.

`create(This, Parent, Id, Bitmap) -> boolean()`

Types:

```
This = wxBitmapButton()  
Parent = wxWindow:wxWindow()  
Id = integer()  
Bitmap = wxBitmap:wxBitmap()
```

wxBitmapButton

Equivalent to `create(This, Parent, Id, Bitmap, [])`.

`create(This, Parent, Id, Bitmap, Options:[Option]) -> boolean()`

Types:

```
This = wxBitmapButton()
Parent = wxWindow:wxWindow()
Id = integer()
Bitmap = wxBitmap:wxBitmap()
Option = {pos, {X::integer(), Y::integer()}} | {size, {W::integer(),
H::integer()}} | {style, integer()} | {validator, wx:wx_object()}
```

See [external documentation](#).

`getBitmapDisabled(This) -> wxBitmap:wxBitmap()`

Types:

```
This = wxBitmapButton()
```

See [external documentation](#).

`getBitmapFocus(This) -> wxBitmap:wxBitmap()`

Types:

```
This = wxBitmapButton()
```

See [external documentation](#).

`getBitmapLabel(This) -> wxBitmap:wxBitmap()`

Types:

```
This = wxBitmapButton()
```

See [external documentation](#).

`getBitmapSelected(This) -> wxBitmap:wxBitmap()`

Types:

```
This = wxBitmapButton()
```

See [external documentation](#).

`setBitmapDisabled(This, Disabled) -> ok`

Types:

```
This = wxBitmapButton()
Disabled = wxBitmap:wxBitmap()
```

See [external documentation](#).

`setBitmapFocus(This, Focus) -> ok`

Types:

```
This = wxBitmapButton()
Focus = wxBitmap:wxBitmap()
```

See [external documentation](#).

`setBitmapLabel(This, Bitmap) -> ok`

Types:

`This = wxBitmapButton()`
`Bitmap = wxBitmap:wxBitmap()`

See [external documentation](#).

`setBitmapSelected(This, Sel) -> ok`

Types:

`This = wxBitmapButton()`
`Sel = wxBitmap:wxBitmap()`

See [external documentation](#).

`destroy(This::wxBitmapButton()) -> ok`

Destroys this object, do not use object again

wxBitmapDataObject

Erlang module

See external documentation: **wxBitmapDataObject**.

This class is derived (and can use functions) from:
wxDataObject

DATA TYPES

wxBitmapDataObject()

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxBitmapDataObject()`

Equivalent to `new([])`.

`new(Options :: [Option]) -> wxBitmapDataObject()`

Types:

`Option = {bitmap, wxBitmap:wxBitmap()}`

See **external documentation**.

Also:

`new(Bitmap) -> wxBitmapDataObject()` when
Bitmap::wxBitmap:wxBitmap().

`getBitmap(This) -> wxBitmap:wxBitmap()`

Types:

`This = wxBitmapDataObject()`

See **external documentation**.

`setBitmap(This, Bitmap) -> ok`

Types:

`This = wxBitmapDataObject()`
`Bitmap = wxBitmap:wxBitmap()`

See **external documentation**.

`destroy(This :: wxBitmapDataObject()) -> ok`

Destroys this object, do not use object again

wxBoundingBox

Erlang module

See external documentation: **wxBoundingBox**.

This class is derived (and can use functions) from:
wxSizer

DATA TYPES

`wxBoundingBox()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new(Orient) -> wxBoundingBox()`

Types:

`Orient = integer()`

See **external documentation**.

`getOrientation(This) -> integer()`

Types:

`This = wxBoundingBox()`

See **external documentation**.

`destroy(This::wxBoundingBox()) -> ok`

Destroys this object, do not use object again

wxBrush

Erlang module

See external documentation: **wxBrush**.

DATA TYPES

`wxBrush()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxBrush()`

See **external documentation**.

`new(Colour) -> wxBrush()`

Types:

`Colour = wx:wx_colour()`

See **external documentation**.

Also:

`new(StippleBitmap) -> wxBrush()` when
StippleBitmap::wxBitmap:wxBitmap().

`new(Colour, Options:[Option]) -> wxBrush()`

Types:

`Colour = wx:wx_colour()`
`Option = {style, integer()}`

See **external documentation**.

`getColour(This) -> wx:wx_colour4()`

Types:

`This = wxBrush()`

See **external documentation**.

`getStipple(This) -> wxBitmap:wxBitmap()`

Types:

`This = wxBrush()`

See **external documentation**.

`getStyle(This) -> integer()`

Types:

`This = wxBrush()`

See [external documentation](#).

`isHatch(This) -> boolean()`

Types:

`This = wxBrush()`

See [external documentation](#).

`isOk(This) -> boolean()`

Types:

`This = wxBrush()`

See [external documentation](#).

`setColour(This, Col) -> ok`

Types:

`This = wxBrush()`

`Col = wx:wx_colour()`

See [external documentation](#).

`setColour(This, R, G, B) -> ok`

Types:

`This = wxBrush()`

`R = integer()`

`G = integer()`

`B = integer()`

See [external documentation](#).

`setStipple(This, Stipple) -> ok`

Types:

`This = wxBrush()`

`Stipple = wxBitmap:wxBitmap()`

See [external documentation](#).

`setStyle(This, Style) -> ok`

Types:

`This = wxBrush()`

`Style = integer()`

See [external documentation](#).

`destroy(This::wxBrush()) -> ok`

Destroys this object, do not use object again

wxBuffedDC

Erlang module

See external documentation: **wxBuffedDC**.

This class is derived (and can use functions) from:

wxMemoryDC

wxDC

DATA TYPES

wxBuffedDC()

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

new() -> wxBuffedDC()

See **external documentation**.

new(Dc) -> wxBuffedDC()

Types:

Dc = wxDC:wxDC()

Equivalent to *new(Dc, [])*.

new(Dc, Area) -> wxBuffedDC()

Types:

Dc = wxDC:wxDC()

Area = {W::integer(), H::integer()}

See **external documentation**.

Also:

new(Dc, [Option]) -> wxBuffedDC() when

Dc::wxDC:wxDC(),

Option :: {'buffer', wxBitmap:wxBitmap()}

| {'style', integer()}.

new(Dc, Area, Options::[Option]) -> wxBuffedDC()

Types:

Dc = wxDC:wxDC()

Area = {W::integer(), H::integer()}

Option = {style, integer()}

See **external documentation**.

init(This, Dc) -> ok

Types:

```
This = wxBufferedDC()
Dc = wxDC:wxDC()
```

Equivalent to `init(This, Dc, [])`.

`init(This, Dc, Area) -> ok`

Types:

```
This = wxBufferedDC()
Dc = wxDC:wxDC()
Area = {W::integer(), H::integer()}
```

See [external documentation](#).

Also:

`init(This, Dc, [Option]) -> 'ok' when`
This::wxBufferedDC(), Dc::wxDC:wxDC(),
Option :: {'buffer', wxBitmap:wxBitmap()}
| {'style', integer()}.

`init(This, Dc, Area, Options:[Option]) -> ok`

Types:

```
This = wxBufferedDC()
Dc = wxDC:wxDC()
Area = {W::integer(), H::integer()}
Option = {style, integer()}
```

See [external documentation](#).

`destroy(This::wxBufferedDC()) -> ok`

Destroys this object, do not use object again

wxBuffedPaintDC

Erlang module

See external documentation: **wxBuffedPaintDC**.

This class is derived (and can use functions) from:

wxBuffedDC

wxMemoryDC

wxDC

DATA TYPES

`wxBuffedPaintDC()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new(Window) -> wxBuffedPaintDC()`

Types:

`Window = wxWindow:wxWindow()`

Equivalent to `new(Window, [])`.

`new(Window, Buffer) -> wxBuffedPaintDC()`

Types:

`Window = wxWindow:wxWindow()`

`Buffer = wxBitmap:wxBitmap()`

See [external documentation](#).

Also:

`new(Window, [Option]) -> wxBuffedPaintDC()` when

`Window::wxWindow:wxWindow()`,

`Option :: {'style', integer()}`.

`new(Window, Buffer, Options::[Option]) -> wxBuffedPaintDC()`

Types:

`Window = wxWindow:wxWindow()`

`Buffer = wxBitmap:wxBitmap()`

`Option = {style, integer()}`

See [external documentation](#).

`destroy(This::wxBuffedPaintDC()) -> ok`

Destroys this object, do not use object again

wxButton

Erlang module

See external documentation: **wxButton**.

This class is derived (and can use functions) from:

wxControl

wxWindow

wxEvtHandler

DATA TYPES

`wxButton()`

An object reference. The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxButton()`

See **external documentation**.

`new(Parent, Id) -> wxButton()`

Types:

```
Parent = wxWindow:wxWindow()  
Id = integer()
```

Equivalent to `new(Parent, Id, [])`.

`new(Parent, Id, Options:[Option]) -> wxButton()`

Types:

```
Parent = wxWindow:wxWindow()  
Id = integer()  
Option = {label, unicode:chardata()} | {pos, {X::integer(), Y::integer()}}  
| {size, {W::integer(), H::integer()}} | {style, integer()} | {validator,  
wx:wx_object()}
```

See **external documentation**.

`create(This, Parent, Id) -> boolean()`

Types:

```
This = wxButton()  
Parent = wxWindow:wxWindow()  
Id = integer()
```

Equivalent to `create(This, Parent, Id, [])`.

wxButton

create(This, Parent, Id, Options:[Option]) -> boolean()

Types:

```
This = wxButton()
Parent = wxWindow:wxWindow()
Id = integer()
Option = {label, unicode:chardata()} | {pos, {X::integer(), Y::integer()}}
| {size, {W::integer(), H::integer()}} | {style, integer()} | {validator,
wx:wx_object()}
```

See [external documentation](#).

getDefaultSize() -> {W::integer(), H::integer()}

See [external documentation](#).

setDefault(This) -> ok

Types:

```
This = wxButton()
```

See [external documentation](#).

setLabel(This, Label) -> ok

Types:

```
This = wxButton()
Label = unicode:chardata()
```

See [external documentation](#).

destroy(This::wxButton()) -> ok

Destroys this object, do not use object again

wxCalendarCtrl

Erlang module

See external documentation: **wxCalendarCtrl**.

This class is derived (and can use functions) from:

wxControl

wxWindow

wxEvtHandler

DATA TYPES

`wxCalendarCtrl()`

An object reference. The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxCalendarCtrl()`

See **external documentation**.

`new(Parent, Id) -> wxCalendarCtrl()`

Types:

```
Parent = wxWindow:wxWindow()  
Id = integer()
```

Equivalent to `new(Parent, Id, [])`.

`new(Parent, Id, Options:[Option]) -> wxCalendarCtrl()`

Types:

```
Parent = wxWindow:wxWindow()  
Id = integer()  
Option = {date, wx:wx_datetime()} | {pos, {X::integer(), Y::integer()}} |  
       {size, {W::integer(), H::integer()}} | {style, integer()}
```

See **external documentation**.

`create(This, Parent, Id) -> boolean()`

Types:

```
This = wxCalendarCtrl()  
Parent = wxWindow:wxWindow()  
Id = integer()
```

Equivalent to `create(This, Parent, Id, [])`.

`create(This, Parent, Id, Options:[Option]) -> boolean()`

Types:

wxCalendarCtrl

```
This = wxCalendarCtrl()
Parent = wxWindow:wxWindow()
Id = integer()
Option = {date, wx:wx_datetime()} | {pos, {X::integer(), Y::integer()}} | 
{size, {W::integer(), H::integer()}} | {style, integer()}
```

See [external documentation](#).

`setDate(This, Date) -> boolean()`

Types:

```
This = wxCalendarCtrl()
Date = wx:wx_datetime()
```

See [external documentation](#).

`getDate(This) -> wx:wx_datetime()`

Types:

```
This = wxCalendarCtrl()
```

See [external documentation](#).

`enableYearChange(This) -> ok`

Types:

```
This = wxCalendarCtrl()
```

This function is deprecated: deprecated function not available in wxWidgets-2.9 and later

Equivalent to `enableYearChange(This, [])`.

`enableYearChange(This, Options:[Option]) -> ok`

Types:

```
This = wxCalendarCtrl()
Option = {enable, boolean()}
```

This function is deprecated: deprecated function not available in wxWidgets-2.9 and later

See [external documentation](#).

`enableMonthChange(This) -> ok`

Types:

```
This = wxCalendarCtrl()
```

Equivalent to `enableMonthChange(This, [])`.

`enableMonthChange(This, Options:[Option]) -> ok`

Types:

```
This = wxCalendarCtrl()
Option = {enable, boolean()}
```

See [external documentation](#).

```
enableHolidayDisplay(This) -> ok
```

Types:

```
  This = wxCalendarCtrl()
```

Equivalent to *enableHolidayDisplay(This, [])*.

```
enableHolidayDisplay(This, Options:[Option]) -> ok
```

Types:

```
  This = wxCalendarCtrl()
```

```
  Option = {display, boolean()}
```

See **external documentation**.

```
setHeaderColours(This, ColFg, ColBg) -> ok
```

Types:

```
  This = wxCalendarCtrl()
```

```
  ColFg = wx:wx_colour()
```

```
  ColBg = wx:wx_colour()
```

See **external documentation**.

```
getHeaderColourFg(This) -> wx:wx_colour4()
```

Types:

```
  This = wxCalendarCtrl()
```

See **external documentation**.

```
getHeaderColourBg(This) -> wx:wx_colour4()
```

Types:

```
  This = wxCalendarCtrl()
```

See **external documentation**.

```
setHighlightColours(This, ColFg, ColBg) -> ok
```

Types:

```
  This = wxCalendarCtrl()
```

```
  ColFg = wx:wx_colour()
```

```
  ColBg = wx:wx_colour()
```

See **external documentation**.

```
getHighlightColourFg(This) -> wx:wx_colour4()
```

Types:

```
  This = wxCalendarCtrl()
```

See **external documentation**.

```
getHighlightColourBg(This) -> wx:wx_colour4()
```

Types:

```
  This = wxCalendarCtrl()
```

wxCalendarCtrl

See [external documentation](#).

setHolidayColours(This, ColFg, ColBg) -> ok

Types:

```
This = wxCalendarCtrl()  
ColFg = wx:wx_colour()  
ColBg = wx:wx_colour()
```

See [external documentation](#).

getHolidayColourFg(This) -> wx:wx_colour4()

Types:

```
This = wxCalendarCtrl()
```

See [external documentation](#).

getHolidayColourBg(This) -> wx:wx_colour4()

Types:

```
This = wxCalendarCtrl()
```

See [external documentation](#).

getAttr(This, Day) -> wxCalendarDateAttr:wxCalendarDateAttr()

Types:

```
This = wxCalendarCtrl()  
Day = integer()
```

See [external documentation](#).

setAttr(This, Day, Attr) -> ok

Types:

```
This = wxCalendarCtrl()  
Day = integer()  
Attr = wxCalendarDateAttr:wxCalendarDateAttr()
```

See [external documentation](#).

setHoliday(This, Day) -> ok

Types:

```
This = wxCalendarCtrl()  
Day = integer()
```

See [external documentation](#).

resetAttr(This, Day) -> ok

Types:

```
This = wxCalendarCtrl()  
Day = integer()
```

See [external documentation](#).

```
hitTest(This, Pos) -> Result
```

Types:

```
Result = {Res::wx:wx_enum(), Date::wx:wx_datetime(), Wd::wx:wx_enum()}  
This = wxCalendarCtrl()  
Pos = {X::integer(), Y::integer()}
```

See [external documentation](#).

Wd = ?wxDateTime_Sun | ?wxDateTime_Mon | ?wxDateTime_Tue | ?wxDateTime_Wed | ?wxDateTime_Thu | ?wxDateTime_Fri | ?wxDateTime_Sat | ?wxDateTime_Inv_WeekDay

Res = ?wxCAL_HITTEST_NOWHERE | ?wxCAL_HITTEST_HEADER | ?wxCAL_HITTEST_DAY | ?wxCAL_HITTEST_INCMONTH | ?wxCAL_HITTEST_DECMONTH | ?wxCAL_HITTEST_SURROUNDING_WEEK

```
destroy(This::wxCalendarCtrl()) -> ok
```

Destroys this object, do not use object again

wxCalendarDateAttr

Erlang module

See external documentation: **wxCalendarDateAttr**.

DATA TYPES

wxCalendarDateAttr()

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

new() -> wxCalendarDateAttr()

See **external documentation**.

new(Border) -> wxCalendarDateAttr()

Types:

Border = wx:wx_enum()

See **external documentation**.

Also:

new(ColText) -> wxCalendarDateAttr() when

ColText::wx:wx_colour().

Border = ?wxCAL_BORDER_NONE | ?wxCAL_BORDER_SQUARE | ?wxCAL_BORDER_ROUND

new(Border, Options:[Option]) -> wxCalendarDateAttr()

Types:

Border = wx:wx_enum()

Option = {colBorder, wx:wx_colour()}

See **external documentation**.

Also:

new(ColText, [Option]) -> wxCalendarDateAttr() when

ColText::wx:wx_colour(),

Option :: {'colBack', wx:wx_colour()}

| {'colBorder', wx:wx_colour()}

| {'font', wxFONT:wxFONT()}

| {'border', wx:wx_enum()}.

Border = ?wxCAL_BORDER_NONE | ?wxCAL_BORDER_SQUARE | ?wxCAL_BORDER_ROUND

setTextColour(This, ColText) -> ok

Types:

This = wxCalendarDateAttr()

ColText = wx:wx_colour()

See **external documentation**.

```
setBackgroundColour(This, ColBack) -> ok
```

Types:

```
This = wxCalendarDateAttr()  
ColBack = wx:wx_colour()
```

See [external documentation](#).

```
setBorderColour(This, Col) -> ok
```

Types:

```
This = wxCalendarDateAttr()  
Col = wx:wx_colour()
```

See [external documentation](#).

```
setFont(This, Font) -> ok
```

Types:

```
This = wxCalendarDateAttr()  
Font = wxFont:wxFont()
```

See [external documentation](#).

```
setBorder(This, Border) -> ok
```

Types:

```
This = wxCalendarDateAttr()  
Border = wx:wx_enum()
```

See [external documentation](#).

Border = ?wxCAL_BORDER_NONE | ?wxCAL_BORDER_SQUARE | ?wxCAL_BORDER_ROUND

```
setHoliday(This, Holiday) -> ok
```

Types:

```
This = wxCalendarDateAttr()  
Holiday = boolean()
```

See [external documentation](#).

```
hasTextColour(This) -> boolean()
```

Types:

```
This = wxCalendarDateAttr()
```

See [external documentation](#).

```
hasBackgroundColour(This) -> boolean()
```

Types:

```
This = wxCalendarDateAttr()
```

See [external documentation](#).

```
hasBorderColour(This) -> boolean()
```

Types:

wxCalendarDateAttr

This = wxCalendarDateAttr()

See [external documentation](#).

hasFont(This) -> boolean()

Types:

This = wxCalendarDateAttr()

See [external documentation](#).

hasBorder(This) -> boolean()

Types:

This = wxCalendarDateAttr()

See [external documentation](#).

isHoliday(This) -> boolean()

Types:

This = wxCalendarDateAttr()

See [external documentation](#).

getTextColour(This) -> wx:wx_colour4()

Types:

This = wxCalendarDateAttr()

See [external documentation](#).

getBackgroundColour(This) -> wx:wx_colour4()

Types:

This = wxCalendarDateAttr()

See [external documentation](#).

getBorderColour(This) -> wx:wx_colour4()

Types:

This = wxCalendarDateAttr()

See [external documentation](#).

getFont(This) -> wxFont:wxFont()

Types:

This = wxCalendarDateAttr()

See [external documentation](#).

getBorder(This) -> wx:wx_enum()

Types:

This = wxCalendarDateAttr()

See [external documentation](#).

Res = ?wxCAL_BORDER_NONE | ?wxCAL_BORDER_SQUARE | ?wxCAL_BORDER_ROUND

destroy(This::wxCalendarDateAttr()) -> ok

Destroys this object, do not use object again

wxCalendarEvent

Erlang module

See external documentation: **wxCalendarEvent**.

Use *wxEvtHandler:connect/3* with EventType:

calendar_sel_changed, calendar_day_changed, calendar_month_changed, calendar_year_changed,
calendar_doubleclicked, calendar_weekday_clicked

See also the message variant `#wxCalendar{}` event record type.

This class is derived (and can use functions) from:

wxDateEvent
wxCommandEvent
wxEvent

DATA TYPES

`wxCalendarEvent()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`getWeekDay(This) -> wx:wx_enum()`

Types:

`This = wxCalendarEvent()`

See **external documentation**.

Res = ?wxDateTime_Sun | ?wxDateTime_Mon | ?wxDateTime_Tue | ?wxDateTime_Wed | ?wxDateTime_Thu | ?wxDateTime_Fri | ?wxDateTime_Sat | ?wxDateTime_Inv_WeekDay

wxCaret

Erlang module

See external documentation: **wxCaret**.

DATA TYPES

`wxCaret()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new(Window, Size) -> wxCaret()`

Types:

```
Window = wxWindow:wxEWindow()
Size = {W::integer(), H::integer()}
```

See **external documentation**.

`new(Window, Width, Height) -> wxCaret()`

Types:

```
Window = wxWindow:wxEWindow()
Width = integer()
Height = integer()
```

See **external documentation**.

`create(This, Window, Size) -> boolean()`

Types:

```
This = wxCaret()
Window = wxWindow:wxEWindow()
Size = {W::integer(), H::integer()}
```

See **external documentation**.

`create(This, Window, Width, Height) -> boolean()`

Types:

```
This = wxCaret()
Window = wxWindow:wxEWindow()
Width = integer()
Height = integer()
```

See **external documentation**.

`getBlinkTime() -> integer()`

See **external documentation**.

wxCaret

getPosition(This) -> {X::integer(), Y::integer()}

Types:

This = wxCaret()

See [external documentation](#).

getSize(This) -> {W::integer(), H::integer()}

Types:

This = wxCaret()

See [external documentation](#).

getWindow(This) -> wxWindow:wxWindow()

Types:

This = wxCaret()

See [external documentation](#).

hide(This) -> ok

Types:

This = wxCaret()

See [external documentation](#).

isOk(This) -> boolean()

Types:

This = wxCaret()

See [external documentation](#).

isVisible(This) -> boolean()

Types:

This = wxCaret()

See [external documentation](#).

move(This, Pt) -> ok

Types:

This = wxCaret()

Pt = {X::integer(), Y::integer()}

See [external documentation](#).

move(This, X, Y) -> ok

Types:

This = wxCaret()

X = integer()

Y = integer()

See [external documentation](#).

```
setBlinkTime(Milliseconds) -> ok
```

Types:

```
Milliseconds = integer()
```

See [external documentation](#).

```
setSize(This, Size) -> ok
```

Types:

```
This = wxCaret()  
Size = {W::integer(), H::integer()}
```

See [external documentation](#).

```
setSize(This, Width, Height) -> ok
```

Types:

```
This = wxCaret()  
Width = integer()  
Height = integer()
```

See [external documentation](#).

```
show(This) -> ok
```

Types:

```
This = wxCaret()
```

Equivalent to `show(This, []).`

```
show(This, Options:[Option]) -> ok
```

Types:

```
This = wxCaret()  
Option = {show, boolean()}
```

See [external documentation](#).

```
destroy(This::wxCaret()) -> ok
```

Destroys this object, do not use object again

wxCheckBox

Erlang module

See external documentation: **wxCheckBox**.

This class is derived (and can use functions) from:

wxControl

wxWindow

wxEvtHandler

DATA TYPES

`wxCheckBox()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxCheckBox()`

See **external documentation**.

`new(Parent, Id, Label) -> wxCheckBox()`

Types:

```
Parent = wxWindow:wxWindow()
Id = integer()
Label = unicode:chardata()
```

Equivalent to `new(Parent, Id, Label, [])`.

`new(Parent, Id, Label, Options:[Option]) -> wxCheckBox()`

Types:

```
Parent = wxWindow:wxWindow()
Id = integer()
Label = unicode:chardata()
Option = {pos, {X::integer(), Y::integer()}} | {size, {W::integer(),
H::integer()}} | {style, integer()} | {validator, wx:wx_object()}
```

See **external documentation**.

`create(This, Parent, Id, Label) -> boolean()`

Types:

```
This = wxCheckBox()
Parent = wxWindow:wxWindow()
Id = integer()
Label = unicode:chardata()
```

Equivalent to `create(This, Parent, Id, Label, [])`.

```
create(This, Parent, Id, Label, Options::[Option]) -> boolean()
Types:
```

```
This = wxCheckBox()
Parent = wxWindow:wxWindow()
Id = integer()
Label = unicode:chardata()
Option = {pos, {X::integer(), Y::integer()}} | {size, {W::integer(),
H::integer()}} | {style, integer()} | {validator, wx:wx_object()}
```

See [external documentation](#).

```
getValue(This) -> boolean()
```

Types:

```
This = wxCheckBox()
```

See [external documentation](#).

```
get3StateValue(This) -> wx:wx_enum()
```

Types:

```
This = wxCheckBox()
```

See [external documentation](#).

Res = ?wxCHK_UNCHECKED | ?wxCHK_CHECKED | ?wxCHK_UNDETERMINED

```
is3rdStateAllowedForUser(This) -> boolean()
```

Types:

```
This = wxCheckBox()
```

See [external documentation](#).

```
is3State(This) -> boolean()
```

Types:

```
This = wxCheckBox()
```

See [external documentation](#).

```
isChecked(This) -> boolean()
```

Types:

```
This = wxCheckBox()
```

See [external documentation](#).

```
setValue(This, State) -> ok
```

Types:

```
This = wxCheckBox()
State = boolean()
```

See [external documentation](#).

wxCheckBox

`set3StateValue(This, State) -> ok`

Types:

`This = wxCheckBox()`

`State = wx:wx_enum()`

See [external documentation](#).

State = ?wxCHK_UNCHECKED | ?wxCHK_CHECKED | ?wxCHK_UNDETERMINED

`destroy(This::wxCheckBox()) -> ok`

Destroys this object, do not use object again

wxCheckListBox

Erlang module

See external documentation: **wxCheckListBox**.

This class is derived (and can use functions) from:

wxListBox
wxControlWithItems
wxControl
wxWindow
wxEvtHandler

DATA TYPES

`wxCheckListBox()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxCheckListBox()`

See **external documentation**.

`new(Parent, Id) -> wxCheckListBox()`

Types:

`Parent = wxWindow:wxWindow()`
`Id = integer()`

Equivalent to `new(Parent, Id, [])`.

`new(Parent, Id, Options:[Option]) -> wxCheckListBox()`

Types:

`Parent = wxWindow:wxWindow()`
`Id = integer()`
`Option = {pos, {X::integer(), Y::integer()}}, {size, {W::integer(), H::integer()}}, {choices, [unicode:chardata()]}, {style, integer()}, {validator, wx:wx_object()}`

See **external documentation**.

`check(This, Index) -> ok`

Types:

`This = wxCheckListBox()`
`Index = integer()`

Equivalent to `check(This, Index, [])`.

wxCheckListBox

check(This, Index, Options::[Option]) -> ok

Types:

```
This = wxCheckListBox()  
Index = integer()  
Option = {check, boolean()}
```

See [external documentation](#).

isChecked(This, Index) -> boolean()

Types:

```
This = wxCheckListBox()  
Index = integer()
```

See [external documentation](#).

destroy(This::wxCheckListBox()) -> ok

Destroys this object, do not use object again

wxChildFocusEvent

Erlang module

See external documentation: **wxChildFocusEvent**.

Use *wxEvtHandler:connect/3* with EventType:

child_focus

See also the message variant `#wxChildFocus{}` event record type.

This class is derived (and can use functions) from:

wxCommandEvent

wxEvent

DATA TYPES

`wxChildFocusEvent()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`getWindow(This) -> wxWindow:wxWindow()`

Types:

`This = wxChildFocusEvent()`

See **external documentation**.

wxChoice

Erlang module

See external documentation: **wxChoice**.

This class is derived (and can use functions) from:

wxControlWithItems

wxControl

wxWindow

wxEvtHandler

DATA TYPES

`wxChoice()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxChoice()`

See **external documentation**.

`new(Parent, Id) -> wxChoice()`

Types:

```
Parent = wxWindow:wxWindow()  
Id = integer()
```

Equivalent to `new(Parent, Id, [])`.

`new(Parent, Id, Options:[Option]) -> wxChoice()`

Types:

```
Parent = wxWindow:wxWindow()  
Id = integer()  
Option = {pos, {X::integer(), Y::integer()}} | {size, {W::integer(),  
H::integer()}} | {choices, [unicode:chardata()]} | {style, integer()} |  
{validator, wx:wx_object()}
```

See **external documentation**.

`create(This, Parent, Id, Pos, Size, Choices) -> boolean()`

Types:

```
This = wxChoice()  
Parent = wxWindow:wxWindow()  
Id = integer()  
Pos = {X::integer(), Y::integer()}  
Size = {W::integer(), H::integer()}  
Choices = [unicode:chardata()]
```

Equivalent to `create(This, Parent, Id, Pos, Size, Choices, [])`.

`create(This, Parent, Id, Pos, Size, Choices, Options::[Option]) -> boolean()`

Types:

```
This = wxChoice()
Parent = wxWindow:wxWindow()
Id = integer()
Pos = {X::integer(), Y::integer()}
Size = {W::integer(), H::integer()}
Choices = [unicode:chardata()]
Option = {style, integer()} | {validator, wx:wx_object()}
```

See [external documentation](#).

`delete(This, N) -> ok`

Types:

```
This = wxChoice()
N = integer()
```

See [external documentation](#).

`getColumns(This) -> integer()`

Types:

```
This = wxChoice()
```

See [external documentation](#).

`setColumns(This) -> ok`

Types:

```
This = wxChoice()
```

Equivalent to `setColumns(This, [])`.

`setColumns(This, Options::[Option]) -> ok`

Types:

```
This = wxChoice()
Option = {n, integer()}
```

See [external documentation](#).

`destroy(This::wxChoice()) -> ok`

Destroys this object, do not use object again

wxChoicebook

Erlang module

See external documentation: **wxChoicebook**.

This class is derived (and can use functions) from:

wxControl

wxWindow

wxEvtHandler

DATA TYPES

`wxChoicebook()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxChoicebook()`

See **external documentation**.

`new(Parent, Id) -> wxChoicebook()`

Types:

```
Parent = wxWindow:wxWindow()
Id = integer()
```

Equivalent to `new(Parent, Id, [])`.

`new(Parent, Id, Options:[Option]) -> wxChoicebook()`

Types:

```
Parent = wxWindow:wxWindow()
Id = integer()
Option = {pos, {X::integer(), Y::integer()}} | {size, {W::integer(),
H::integer()}} | {style, integer()}
```

See **external documentation**.

`addPage(This, Page, Text) -> boolean()`

Types:

```
This = wxChoicebook()
Page = wxWindow:wxWindow()
Text = unicode:chardata()
```

Equivalent to `addPage(This, Page, Text, [])`.

`addPage(This, Page, Text, Options:[Option]) -> boolean()`

Types:

```
This = wxChoicebook()
Page = wxWindow:wxWindow()
Text = unicode:chardata()
Option = {bSelect, boolean()} | {imageId, integer()}
```

See **external documentation**.

advanceSelection(This) -> ok

Types:

```
This = wxChoicebook()
```

Equivalent to *advanceSelection(This, [])*.

advanceSelection(This, Options:[Option]) -> ok

Types:

```
This = wxChoicebook()
Option = {forward, boolean()}
```

See **external documentation**.

assignImageList(This, ImageList) -> ok

Types:

```
This = wxChoicebook()
ImageList = wxImageList:wxImageList()
```

See **external documentation**.

create(This, Parent, Id) -> boolean()

Types:

```
This = wxChoicebook()
Parent = wxWindow:wxWindow()
Id = integer()
```

Equivalent to *create(This, Parent, Id, [])*.

create(This, Parent, Id, Options:[Option]) -> boolean()

Types:

```
This = wxChoicebook()
Parent = wxWindow:wxWindow()
Id = integer()
Option = {pos, {X::integer(), Y::integer()}} | {size, {W::integer(),
H::integer()}} | {style, integer()}
```

See **external documentation**.

deleteAllPages(This) -> boolean()

Types:

```
This = wxChoicebook()
```

See **external documentation**.

wxChoicebook

`deletePage(This, N) -> boolean()`

Types:

```
This = wxChoicebook()
N = integer()
```

See [external documentation](#).

`removePage(This, N) -> boolean()`

Types:

```
This = wxChoicebook()
N = integer()
```

See [external documentation](#).

`getCurrentPage(This) -> wxWindow:wxWindow()`

Types:

```
This = wxChoicebook()
```

See [external documentation](#).

`getImageList(This) -> wxImageList:wxImageList()`

Types:

```
This = wxChoicebook()
```

See [external documentation](#).

`getPage(This, N) -> wxWindow:wxWindow()`

Types:

```
This = wxChoicebook()
N = integer()
```

See [external documentation](#).

`getPageCount(This) -> integer()`

Types:

```
This = wxChoicebook()
```

See [external documentation](#).

`getPageImage(This, N) -> integer()`

Types:

```
This = wxChoicebook()
N = integer()
```

See [external documentation](#).

`getPageText(This, N) -> unicode:charlist()`

Types:

```
This = wxChoicebook()
N = integer()
```

See [external documentation](#).

`getSelection(This) -> integer()`

Types:

`This = wxChoicebook()`

See [external documentation](#).

`hitTest(This, Pt) -> Result`

Types:

`Result = {Res::integer(), Flags::integer()}`

`This = wxChoicebook()`

`Pt = {X::integer(), Y::integer()}`

See [external documentation](#).

`insertPage(This, N, Page, Text) -> boolean()`

Types:

`This = wxChoicebook()`

`N = integer()`

`Page = wxWindow:wxWindow()`

`Text = unicode:chardata()`

Equivalent to `insertPage(This, N, Page, Text, [])`.

`insertPage(This, N, Page, Text, Options:[Option]) -> boolean()`

Types:

`This = wxChoicebook()`

`N = integer()`

`Page = wxWindow:wxWindow()`

`Text = unicode:chardata()`

`Option = {bSelect, boolean()} | {imageId, integer()}`

See [external documentation](#).

`setImageList(This, ImageList) -> ok`

Types:

`This = wxChoicebook()`

`ImageList = wxImageList:wxImageList()`

See [external documentation](#).

`setPageSize(This, Size) -> ok`

Types:

`This = wxChoicebook()`

`Size = {W::integer(), H::integer()}`

See [external documentation](#).

wxChoicebook

`setPageImage(This, N, ImageId) -> boolean()`

Types:

```
This = wxChoicebook()
N = integer()
ImageId = integer()
```

See [external documentation](#).

`setPageText(This, N, StrText) -> boolean()`

Types:

```
This = wxChoicebook()
N = integer()
StrText = unicode:chardata()
```

See [external documentation](#).

`setSelection(This, N) -> integer()`

Types:

```
This = wxChoicebook()
N = integer()
```

See [external documentation](#).

`changeSelection(This, N) -> integer()`

Types:

```
This = wxChoicebook()
N = integer()
```

See [external documentation](#).

`destroy(This::wxChoicebook()) -> ok`

Destroys this object, do not use object again

wxClientDC

Erlang module

See external documentation: **wxClientDC**.

This class is derived (and can use functions) from:

wxWindowDC

wxDC

DATA TYPES

`wxClientDC()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxClientDC()`

This function is deprecated: deprecated function not available in wxWidgets-2.9 and later

See [external documentation](#).

`new(Win) -> wxClientDC()`

Types:

`Win = wxWindow:wxWindow()`

See [external documentation](#).

`destroy(This::wxClientDC()) -> ok`

Destroys this object, do not use object again

wxClipboard

Erlang module

See external documentation: **wxClipboard**.

DATA TYPES

`wxClipboard()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxClipboard()`

See **external documentation**.

`addData(This, Data) -> boolean()`

Types:

```
This = wxClipboard()  
Data = wxDataObject:wxDataObject()
```

See **external documentation**.

`clear(This) -> ok`

Types:

```
This = wxClipboard()
```

See **external documentation**.

`close(This) -> ok`

Types:

```
This = wxClipboard()
```

See **external documentation**.

`flush(This) -> boolean()`

Types:

```
This = wxClipboard()
```

See **external documentation**.

`getData(This, Data) -> boolean()`

Types:

```
This = wxClipboard()  
Data = wxDataObject:wxDataObject()
```

See **external documentation**.

isOpened(This) -> boolean()

Types:

This = *wxClipboard()*

See [external documentation](#).

open(This) -> boolean()

Types:

This = *wxClipboard()*

See [external documentation](#).

setData(This, Data) -> boolean()

Types:

This = *wxClipboard()*

Data = *wxDataObject:wxDataObject()*

See [external documentation](#).

usePrimarySelection(This) -> ok

Types:

This = *wxClipboard()*

Equivalent to *usePrimarySelection(This, []).*

usePrimarySelection(This, Options::[Option]) -> ok

Types:

This = *wxClipboard()*

Option = {**primary**, boolean()}

See [external documentation](#).

isSupported(This, Format) -> boolean()

Types:

This = *wxClipboard()*

Format = *wx:wx_enum()*

See [external documentation](#).

Format = ?wxDF_INVALID | ?wxDF_TEXT | ?wxDF_BITMAP | ?wxDF_METAFILE | ?wxDF_SYLK | ?wxDF_DIF | ?wxDF_TIFF | ?wxDF_OEMTEXT | ?wxDF_DIB | ?wxDF_PALETTE | ?wxDF_PENDATA | ?wxDF_RIFF | ?wxDF_WAVE | ?wxDF_UNICODETEXT | ?wxDF_ENHMETAFILE | ?wxDF_FILENAME | ?wxDF_LOCALE | ?wxDF_PRIVATE | ?wxDF_HTML | ?wxDF_MAX

get() -> *wxClipboard()*

See [external documentation](#).

destroy(This::wxClipboard()) -> ok

Destroys this object, do not use object again

wxClipboardTextEvent

Erlang module

See external documentation: [wxClipboardTextEvent](#).

Use `wxEvtHandler:connect/3` with EventType:

command_text_copy, command_text_cut, command_text_paste

See also the message variant `#wxClipboardText{}` event record type.

This class is derived (and can use functions) from:

wxCommandEvent

wxEvtHandler

DATA TYPES

`wxClipboardTextEvent()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

wxCloseEvent

Erlang module

See external documentation: **wxCloseEvent**.

Use *wxEvtHandler:connect/3* with EventType:

close_window, end_session, query_end_session

See also the message variant `#wxClose{}` event record type.

This class is derived (and can use functions) from:

wxEvent

DATA TYPES

`wxCloseEvent()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`canVeto(This) -> boolean()`

Types:

This = wxCloseEvent()

See **external documentation**.

`getLoggingOff(This) -> boolean()`

Types:

This = wxCloseEvent()

See **external documentation**.

`setCanVeto(This, CanVeto) -> ok`

Types:

This = wxCloseEvent()

CanVeto = boolean()

See **external documentation**.

`setLoggingOff(This, LogOff) -> ok`

Types:

This = wxCloseEvent()

LogOff = boolean()

See **external documentation**.

`veto(This) -> ok`

Types:

wxCloseEvent

This = wxCloseEvent()

Equivalent to *veto(This, [])*.

veto(This, Options::[Option]) -> ok

Types:

This = wxCloseEvent()

Option = {veto, boolean()}

See [external documentation](#).

wxColourData

Erlang module

See external documentation: **wxColourData**.

DATA TYPES

`wxColourData()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxColourData()`

See **external documentation**.

`new(Data) -> wxColourData()`

Types:

`Data = wxColourData()`

See **external documentation**.

`getChooseFull(This) -> boolean()`

Types:

`This = wxColourData()`

See **external documentation**.

`getColour(This) -> wx:wx_colour4()`

Types:

`This = wxColourData()`

See **external documentation**.

`getCustomColour(This, I) -> wx:wx_colour4()`

Types:

`This = wxColourData()`

`I = integer()`

See **external documentation**.

`setChooseFull(This, Flag) -> ok`

Types:

`This = wxColourData()`

`Flag = boolean()`

See **external documentation**.

wxColourData

setColour(This, Colour) -> ok

Types:

```
This = wxColourData()
Colour = wx:wx_colour()
```

See [external documentation](#).

setCustomColour(This, I, Colour) -> ok

Types:

```
This = wxColourData()
I = integer()
Colour = wx:wx_colour()
```

See [external documentation](#).

destroy(This::wxColourData()) -> ok

Destroys this object, do not use object again

wxColourDialog

Erlang module

See external documentation: **wxColourDialog**.

This class is derived (and can use functions) from:

wxDialog
wxTopLevelWindow
wxWindow
wxEvtHandler

DATA TYPES

`wxColourDialog()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxColourDialog()`

See **external documentation**.

`new(Parent) -> wxColourDialog()`

Types:

`Parent = wxWindow:wxWindow()`

Equivalent to `new(Parent, [])`.

`new(Parent, Options:[Option]) -> wxColourDialog()`

Types:

`Parent = wxWindow:wxWindow()`

`Option = {data, wxColourData:wxColourData()}`

See **external documentation**.

`create(This, Parent) -> boolean()`

Types:

`This = wxColourDialog()`

`Parent = wxWindow:wxWindow()`

Equivalent to `create(This, Parent, [])`.

`create(This, Parent, Options:[Option]) -> boolean()`

Types:

`This = wxColourDialog()`

`Parent = wxWindow:wxWindow()`

`Option = {data, wxColourData:wxColourData()}`

wxColourDialog

See [external documentation](#).

`getColourData(This) -> wxColourData:wxColourData()`

Types:

`This = wxColourDialog()`

See [external documentation](#).

`destroy(This::wxColourDialog()) -> ok`

Destroys this object, do not use object again

wxColourPickerCtrl

Erlang module

See external documentation: **wxColourPickerCtrl**.

This class is derived (and can use functions) from:

wxPickerBase
wxControl
wxWindow
wxEvtHandler

DATA TYPES

`wxColourPickerCtrl()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxColourPickerCtrl()`

See **external documentation**.

`new(Parent, Id) -> wxColourPickerCtrl()`

Types:

```
Parent = wxWindow:wxWindow()  
Id = integer()
```

Equivalent to `new(Parent, Id, [])`.

`new(Parent, Id, Options:[Option]) -> wxColourPickerCtrl()`

Types:

```
Parent = wxWindow:wxWindow()  
Id = integer()  
Option = {col, wx:wx_colour()} | {pos, {X::integer(), Y::integer()} } |  
{size, {W::integer(), H::integer()} } | {style, integer()} | {validator,  
wx:wx_object()}
```

See **external documentation**.

`create(This, Parent, Id) -> boolean()`

Types:

```
This = wxColourPickerCtrl()  
Parent = wxWindow:wxWindow()  
Id = integer()
```

Equivalent to `create(This, Parent, Id, [])`.

wxColourPickerCtrl

create(This, Parent, Id, Options:[Option]) -> boolean()

Types:

```
This = wxColourPickerCtrl()
Parent = wxWindow:wxWindow()
Id = integer()
Option = {col, wx:wx_colour()} | {pos, {x::integer(), y::integer()}} | 
{size, {W::integer(), H::integer()}} | {style, integer()} | {validator,
wx:wx_object()}
```

See [external documentation](#).

getColour(This) -> wx:wx_colour4()

Types:

```
This = wxColourPickerCtrl()
```

See [external documentation](#).

setColour(This, Text) -> boolean()

Types:

```
This = wxColourPickerCtrl()
Text = unicode:chardata()
```

See [external documentation](#).

Also:

setColour(This, Col) -> 'ok' when

This::wxColourPickerCtrl(), Col::wx:wx_colour().

destroy(This::wxColourPickerCtrl()) -> ok

Destroys this object, do not use object again

wxColourPickerEvent

Erlang module

See external documentation: **wxColourPickerEvent**.

Use *wxEvtHandler:connect/3* with EventType:

command_colourpicker_changed

See also the message variant `#wxColourPicker{}` event record type.

This class is derived (and can use functions) from:

wxCommandEvent

wxEvent

DATA TYPES

`wxColourPickerEvent()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`getColour(This) -> wx:wx_colour4()`

Types:

`This = wxColourPickerEvent()`

See **external documentation**.

wxComboBox

Erlang module

See external documentation: **wxComboBox**.

This class is derived (and can use functions) from:

wxControlWithItems

wxControl

wxWindow

wxEvtHandler

DATA TYPES

`wxComboBox()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxComboBox()`

See **external documentation**.

`new(Parent, Id) -> wxComboBox()`

Types:

```
Parent = wxWindow:wxWindow()  
Id = integer()
```

Equivalent to `new(Parent, Id, [])`.

`new(Parent, Id, Options::[Option]) -> wxComboBox()`

Types:

```
Parent = wxWindow:wxWindow()  
Id = integer()  
Option = {value, unicode:chardata()} | {pos, {X::integer(), Y::integer()}}  
| {size, {W::integer(), H::integer()}} | {choices, [unicode:chardata()]} |  
{style, integer()} | {validator, wx:wx_object()}
```

See **external documentation**.

`create(This, Parent, Id, Value, Pos, Size, Choices) -> boolean()`

Types:

```
This = wxComboBox()  
Parent = wxWindow:wxWindow()  
Id = integer()  
Value = unicode:chardata()  
Pos = {X::integer(), Y::integer()}  
Size = {W::integer(), H::integer()}
```

```
Choices = [unicode:chardata()]
```

Equivalent to *create(This, Parent, Id, Value, Pos, Size, Choices, [])*.

```
create(This, Parent, Id, Value, Pos, Size, Choices, Options::[Option]) ->  
boolean()
```

Types:

```
This = wxComboBox()  
Parent = wxWindow:wxWindow()  
Id = integer()  
Value = unicode:chardata()  
Pos = {X::integer(), Y::integer()}  
Size = {W::integer(), H::integer()}  
Choices = [unicode:chardata()]  
Option = {style, integer()} | {validator, wx:wx_object()}
```

See **external documentation**.

```
canCopy(This) -> boolean()
```

Types:

```
This = wxComboBox()
```

See **external documentation**.

```
canCut(This) -> boolean()
```

Types:

```
This = wxComboBox()
```

See **external documentation**.

```
canPaste(This) -> boolean()
```

Types:

```
This = wxComboBox()
```

See **external documentation**.

```
canRedo(This) -> boolean()
```

Types:

```
This = wxComboBox()
```

See **external documentation**.

```
canUndo(This) -> boolean()
```

Types:

```
This = wxComboBox()
```

See **external documentation**.

```
copy(This) -> ok
```

Types:

wxComboBox

This = wxComboBox()

See [external documentation](#).

cut(This) -> ok

Types:

This = wxComboBox()

See [external documentation](#).

getInsertionPoint(This) -> integer()

Types:

This = wxComboBox()

See [external documentation](#).

getLastPosition(This) -> integer()

Types:

This = wxComboBox()

See [external documentation](#).

getValue(This) -> unicode:charlist()

Types:

This = wxComboBox()

See [external documentation](#).

paste(This) -> ok

Types:

This = wxComboBox()

See [external documentation](#).

redo(This) -> ok

Types:

This = wxComboBox()

See [external documentation](#).

replace(This, From, To, Value) -> ok

Types:

This = wxComboBox()

From = integer()

To = integer()

Value = unicode:chardata()

See [external documentation](#).

remove(This, From, To) -> ok

Types:

```
This = wxComboBox()  
From = integer()  
To = integer()
```

See [external documentation](#).

`setInsertionPoint(This, Pos) -> ok`

Types:

```
This = wxComboBox()  
Pos = integer()
```

See [external documentation](#).

`setInsertionPointEnd(This) -> ok`

Types:

```
This = wxComboBox()
```

See [external documentation](#).

`setSelection(This, N) -> ok`

Types:

```
This = wxComboBox()  
N = integer()
```

See [external documentation](#).

`setSelection(This, From, To) -> ok`

Types:

```
This = wxComboBox()  
From = integer()  
To = integer()
```

See [external documentation](#).

`setValue(This, Value) -> ok`

Types:

```
This = wxComboBox()  
Value = unicode:chardata()
```

See [external documentation](#).

`undo(This) -> ok`

Types:

```
This = wxComboBox()
```

See [external documentation](#).

`destroy(This::wxComboBox()) -> ok`

Destroys this object, do not use object again

wxCommandEvent

Erlang module

See external documentation: **wxCommandEvent**.

Use *wxEvtHandler:connect/3* with EventType:

<code>command_button_clicked,</code>	<code>command_checkbox_clicked,</code>	<code>command_choice_selected,</code>
<code>command_listbox_selected,</code>	<code>command_listbox_doubleclicked,</code>	<code>command_text_updated,</code>
<code>command_text_enter,</code>	<code>command_menu_selected,</code>	<code>command_slider_updated,</code>
<code>command_radiobox_selected,</code>	<code>command_radiobutton_selected,</code>	<code>command_scrollbar_updated,</code>
<code>command_vlbox_selected, command_combobox_selected, command_tool_reclicked, command_tool_enter,</code>		
<code>command_checklistbox_toggled, command_togglebutton_clicked,</code>	<code>command_left_click,</code>	
<code>command_left_dclick, command_right_click, command_set_focus, command_kill_focus, command_enter</code>		

See also the message variant `#wxCommand{}` event record type.

This class is derived (and can use functions) from:

wxEvent

DATA TYPES

`wxCommandEvent()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`getClientData(This) -> term()`

Types:

`This = wxCommandEvent()`

See **external documentation**.

`getExtraLong(This) -> integer()`

Types:

`This = wxCommandEvent()`

See **external documentation**.

`getInt(This) -> integer()`

Types:

`This = wxCommandEvent()`

See **external documentation**.

`getSelection(This) -> integer()`

Types:

`This = wxCommandEvent()`

See **external documentation**.

getString(This) -> unicode:charlist()

Types:

This = wxCommandEvent()

See **external documentation**.

isChecked(This) -> boolean()

Types:

This = wxCommandEvent()

See **external documentation**.

isSelection(This) -> boolean()

Types:

This = wxCommandEvent()

See **external documentation**.

setInt(This, I) -> ok

Types:

This = wxCommandEvent()

I = integer()

See **external documentation**.

setString(This, S) -> ok

Types:

This = wxCommandEvent()

S = unicode:chardata()

See **external documentation**.

wxContextMenuEvent

Erlang module

See external documentation: **wxContextMenuEvent**.

Use *wxEvtHandler:connect/3* with EventType:

context_menu

See also the message variant *#wxContextMenu{}* event record type.

This class is derived (and can use functions) from:

wxCommandEvent

wxEvent

DATA TYPES

`wxContextMenuEvent()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`getPosition(This) -> {X::integer(), Y::integer()}`

Types:

`This = wxContextMenuEvent()`

See **external documentation**.

`setPosition(This, Pos) -> ok`

Types:

`This = wxContextMenuEvent()`

`Pos = {X::integer(), Y::integer()}`

See **external documentation**.

wxControl

Erlang module

See external documentation: **wxControl**.

This class is derived (and can use functions) from:

wxWindow

wxEvtHandler

DATA TYPES

`wxControl()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`getLabel(This) -> unicode:charlist()`

Types:

`This = wxControl()`

See **external documentation**.

`setLabel(This, Label) -> ok`

Types:

`This = wxControl()`

`Label = unicode:chardata()`

See **external documentation**.

wxControlWithItems

Erlang module

See external documentation: **wxControlWithItems**.

This class is derived (and can use functions) from:

wxControl

wxWindow

wxEvtHandler

DATA TYPES

`wxControlWithItems()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`append(This, Item) -> integer()`

Types:

```
This = wxControlWithItems()
Item = unicode:chardata()
```

See **external documentation**.

`append(This, Item, ClientData) -> integer()`

Types:

```
This = wxControlWithItems()
Item = unicode:chardata()
ClientData = term()
```

See **external documentation**.

`appendStrings(This, Strings) -> ok`

Types:

```
This = wxControlWithItems()
Strings = [unicode:chardata()]
```

See **external documentation**.

`clear(This) -> ok`

Types:

```
This = wxControlWithItems()
```

See **external documentation**.

`delete(This, N) -> ok`

Types:

```
This = wxControlWithItems()
N = integer()
```

See **external documentation**.

`findString(This, S) -> integer()`

Types:

```
This = wxControlWithItems()
S = unicode:chardata()
```

Equivalent to `findString(This, S, [])`.

`findString(This, S, Options::[Option]) -> integer()`

Types:

```
This = wxControlWithItems()
S = unicode:chardata()
Option = {bCase, boolean()}
```

See **external documentation**.

`getClientData(This, N) -> term()`

Types:

```
This = wxControlWithItems()
N = integer()
```

See **external documentation**.

`setClientData(This, N, ClientData) -> ok`

Types:

```
This = wxControlWithItems()
N = integer()
ClientData = term()
```

See **external documentation**.

`getCount(This) -> integer()`

Types:

```
This = wxControlWithItems()
```

See **external documentation**.

`getSelection(This) -> integer()`

Types:

```
This = wxControlWithItems()
```

See **external documentation**.

`getString(This, N) -> unicode:charlist()`

Types:

```
This = wxControlWithItems()
```

wxControlWithItems

N = integer()

See [external documentation](#).

getStringSelection(This) -> unicode:charlist()

Types:

This = wxControlWithItems()

See [external documentation](#).

insert(This, Item, Pos) -> integer()

Types:

```
This = wxControlWithItems()
Item = unicode:chardata()
Pos = integer()
```

See [external documentation](#).

insert(This, Item, Pos, ClientData) -> integer()

Types:

```
This = wxControlWithItems()
Item = unicode:chardata()
Pos = integer()
ClientData = term()
```

See [external documentation](#).

isEmpty(This) -> boolean()

Types:

This = wxControlWithItems()

See [external documentation](#).

select(This, N) -> ok

Types:

```
This = wxControlWithItems()
N = integer()
```

See [external documentation](#).

setSelection(This, N) -> ok

Types:

```
This = wxControlWithItems()
N = integer()
```

See [external documentation](#).

setString(This, N, S) -> ok

Types:

This = wxControlWithItems()

```
N = integer()
S = unicode:chardata()
```

See [external documentation](#).

`setStringSelection(This, S) -> boolean()`

Types:

```
This = wxControlWithItems()
S = unicode:chardata()
```

See [external documentation](#).

wxCursor

Erlang module

See external documentation: **wxCursor**.

This class is derived (and can use functions) from:
wxBitmap

DATA TYPES

wxCursor()

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

new() -> wxCursor()

See **external documentation**.

new(CursorId) -> wxCursor()

Types:

CursorId = integer()

See **external documentation**.

Also:

new(Image) -> wxCursor() when
Image:::wxImage:wxImage().

new(Bits, Width, Height) -> wxCursor()

Types:

Bits = binary()
Width = integer()
Height = integer()

This function is deprecated: deprecated function not available in wxWidgets-2.9 and later

Equivalent to *new(Bits, Width, Height, [])*.

new(Bits, Width, Height, Options:[Option]) -> wxCursor()

Types:

Bits = binary()
Width = integer()
Height = integer()
Option = {hotSpotX, integer()} | {hotSpotY, integer()}

This function is deprecated: deprecated function not available in wxWidgets-2.9 and later

See **external documentation**.

`ok(This) -> boolean()`

Types:

`This = wxCursor()`

See **external documentation**.

`destroy(This::wxCursor()) -> ok`

Destroys this object, do not use object again

wxDC

Erlang module

See external documentation: **wxDC**.

DATA TYPES

wxDC()

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

blit(This, DestPt, Sz, Source, SrcPt) -> boolean()

Types:

```
This = wxDC()
DestPt = {X::integer(), Y::integer()}
Sz = {W::integer(), H::integer()}
Source = wxDC()
SrcPt = {X::integer(), Y::integer()}
```

Equivalent to *blit(This, DestPt, Sz, Source, SrcPt, [])*.

blit(This, DestPt, Sz, Source, SrcPt, Options:[Option]) -> boolean()

Types:

```
This = wxDC()
DestPt = {X::integer(), Y::integer()}
Sz = {W::integer(), H::integer()}
Source = wxDC()
SrcPt = {X::integer(), Y::integer()}
Option = {rop, wx:wx_enum()} | {useMask, boolean()} | {srcPtMask,
{X::integer(), Y::integer()}}
```

See **external documentation**.

Rop = integer

calcBoundingBox(This, X, Y) -> ok

Types:

```
This = wxDC()
X = integer()
Y = integer()
```

See **external documentation**.

clear(This) -> ok

Types:

```
This = wxDC()
```

See **external documentation**.

```
computeScaleAndOrigin(This) -> ok
```

Types:

```
This = wxDC()
```

This function is deprecated: deprecated function not available in wxWidgets-2.9 and later

See **external documentation**.

```
crossHair(This, Pt) -> ok
```

Types:

```
This = wxDC()
```

```
Pt = {X::integer(), Y::integer()}
```

See **external documentation**.

```
destroyClippingRegion(This) -> ok
```

Types:

```
This = wxDC()
```

See **external documentation**.

```
deviceToLogicalX(This, X) -> integer()
```

Types:

```
This = wxDC()
```

```
X = integer()
```

See **external documentation**.

```
deviceToLogicalXRel(This, X) -> integer()
```

Types:

```
This = wxDC()
```

```
X = integer()
```

See **external documentation**.

```
deviceToLogicalY(This, Y) -> integer()
```

Types:

```
This = wxDC()
```

```
Y = integer()
```

See **external documentation**.

```
deviceToLogicalYRel(This, Y) -> integer()
```

Types:

```
This = wxDC()
```

```
Y = integer()
```

See [external documentation](#).

`drawArc(This, Pt1, Pt2, Centre) -> ok`

Types:

```
This = wxDC()
Pt1 = {X::integer(), Y::integer()}
Pt2 = {X::integer(), Y::integer()}
Centre = {X::integer(), Y::integer()}
```

See [external documentation](#).

`drawBitmap(This, Bmp, Pt) -> ok`

Types:

```
This = wxDC()
Bmp = wxBitmap:wxBitmap()
Pt = {X::integer(), Y::integer()}
```

Equivalent to `drawBitmap(This, Bmp, Pt, [])`.

`drawBitmap(This, Bmp, Pt, Options:[Option]) -> ok`

Types:

```
This = wxDC()
Bmp = wxBitmap:wxBitmap()
Pt = {X::integer(), Y::integer()}
Option = {useMask, boolean()}
```

See [external documentation](#).

`drawCheckMark(This, Rect) -> ok`

Types:

```
This = wxDC()
Rect = {X::integer(), Y::integer(), W::integer(), H::integer()}
```

See [external documentation](#).

`drawCircle(This, Pt, Radius) -> ok`

Types:

```
This = wxDC()
Pt = {X::integer(), Y::integer()}
Radius = integer()
```

See [external documentation](#).

`drawEllipse(This, Rect) -> ok`

Types:

```
This = wxDC()
Rect = {X::integer(), Y::integer(), W::integer(), H::integer()}
```

See [external documentation](#).

`drawEllipse(This, Pt, Sz) -> ok`

Types:

```
This = wxDC()
Pt = {X::integer(), Y::integer()}
Sz = {W::integer(), H::integer()}
```

See [external documentation](#).

`drawEllipticArc(This, Pt, Sz, Sa, Ea) -> ok`

Types:

```
This = wxDC()
Pt = {X::integer(), Y::integer()}
Sz = {W::integer(), H::integer()}
Sa = number()
Ea = number()
```

See [external documentation](#).

`drawIcon(This, Icon, Pt) -> ok`

Types:

```
This = wxDC()
Icon = wxIcon:wxIcon()
Pt = {X::integer(), Y::integer()}
```

See [external documentation](#).

`drawLabel(This, Text, Rect) -> ok`

Types:

```
This = wxDC()
Text = unicode:chardata()
Rect = {X::integer(), Y::integer(), W::integer(), H::integer()}
```

Equivalent to `drawLabel(This, Text, Rect, [])`.

`drawLabel(This, Text, Rect, Options:[Option]) -> ok`

Types:

```
This = wxDC()
Text = unicode:chardata()
Rect = {X::integer(), Y::integer(), W::integer(), H::integer()}
Option = {alignment, integer()} | {indexAccel, integer()}
```

See [external documentation](#).

`drawLine(This, Pt1, Pt2) -> ok`

Types:

```
This = wxDC()
Pt1 = {X::integer(), Y::integer()}
Pt2 = {X::integer(), Y::integer()}
```

See [external documentation](#).

`drawLines(This, Points) -> ok`

Types:

```
This = wxDC()
Points = [{X::integer(), Y::integer()}]
```

Equivalent to `drawLines(This, Points, [])`.

`drawLines(This, Points, Options:[Option]) -> ok`

Types:

```
This = wxDC()
Points = [{X::integer(), Y::integer()}]
Option = {xoffset, integer()} | {yoffset, integer()}
```

See [external documentation](#).

`drawPolygon(This, Points) -> ok`

Types:

```
This = wxDC()
Points = [{X::integer(), Y::integer()}]
```

Equivalent to `drawPolygon(This, Points, [])`.

`drawPolygon(This, Points, Options:[Option]) -> ok`

Types:

```
This = wxDC()
Points = [{X::integer(), Y::integer()}]
Option = {xoffset, integer()} | {yoffset, integer()} | {fillStyle,
wx:wx_enum()}
```

See [external documentation](#).

FillStyle = integer

`drawPoint(This, Pt) -> ok`

Types:

```
This = wxDC()
Pt = {X::integer(), Y::integer()}
```

See [external documentation](#).

`drawRectangle(This, Rect) -> ok`

Types:

```
This = wxDC()
Rect = {X::integer(), Y::integer(), W::integer(), H::integer()}
```

See [external documentation](#).

`drawRectangle(This, Pt, Sz) -> ok`

Types:

```
This = wxDC()
Pt = {X::integer(), Y::integer()}
Sz = {W::integer(), H::integer()}
```

See [external documentation](#).

`drawRotatedText(This, Text, Pt, Angle) -> ok`

Types:

```
This = wxDC()
Text = unicode:chardata()
Pt = {X::integer(), Y::integer()}
Angle = number()
```

See [external documentation](#).

`drawRoundedRectangle(This, R, Radius) -> ok`

Types:

```
This = wxDC()
R = {X::integer(), Y::integer(), W::integer(), H::integer()}
Radius = number()
```

See [external documentation](#).

`drawRoundedRectangle(This, Pt, Sz, Radius) -> ok`

Types:

```
This = wxDC()
Pt = {X::integer(), Y::integer()}
Sz = {W::integer(), H::integer()}
Radius = number()
```

See [external documentation](#).

`drawText(This, Text, Pt) -> ok`

Types:

```
This = wxDC()
Text = unicode:chardata()
Pt = {X::integer(), Y::integer()}
```

See [external documentation](#).

`endDoc(This) -> ok`

Types:

```
This = wxDC()
```

See [external documentation](#).

wxDC

endPage(This) -> ok

Types:

This = wxDC()

See [external documentation](#).

floodFill(This, Pt, Col) -> boolean()

Types:

This = wxDC()

Pt = {X::integer(), Y::integer()}

Col = wx:wx_colour()

Equivalent to *floodFill(This, Pt, Col, [])*.

floodFill(This, Pt, Col, Options:[Option]) -> boolean()

Types:

This = wxDC()

Pt = {X::integer(), Y::integer()}

Col = wx:wx_colour()

Option = {style, wx:wx_enum()}

See [external documentation](#).

Style = integer

getBackground(This) -> wxBrush:wxBrush()

Types:

This = wxDC()

See [external documentation](#).

getBackgroundMode(This) -> integer()

Types:

This = wxDC()

See [external documentation](#).

getBrush(This) -> wxBrush:wxBrush()

Types:

This = wxDC()

See [external documentation](#).

getCharHeight(This) -> integer()

Types:

This = wxDC()

See [external documentation](#).

getCharWidth(This) -> integer()

Types:

```
This = wxDC()
```

See [external documentation](#).

`getClippingBox(This) -> Result`

Types:

```
Result = {X::integer(), Y::integer(), W::integer(), H::integer()}

This = wxDC()
```

See [external documentation](#).

`getFont(This) -> wxFont:wxFont()`

Types:

```
This = wxDC()
```

See [external documentation](#).

`getLayoutDirection(This) -> wx:wx_enum()`

Types:

```
This = wxDC()
```

See [external documentation](#).

Res = ?wxLayout_Default | ?wxLayout_LeftToRight | ?wxLayout_RightToLeft

`getLogicalFunction(This) -> integer()`

Types:

```
This = wxDC()
```

See [external documentation](#).

`getMapMode(This) -> integer()`

Types:

```
This = wxDC()
```

See [external documentation](#).

`getMultiLineTextExtent(This, String) -> {W::integer(), H::integer()}`

Types:

```
This = wxDC()
```

```
String = unicode:chardata()
```

See [external documentation](#).

`getMultiLineTextExtent(This, String, Options:[Option]) -> {Width::integer(), Height::integer(), HeightLine::integer()}`

Types:

```
This = wxDC()
```

```
String = unicode:chardata()
```

```
Option = {font, wxFont:wxFont()}
```

See [external documentation](#).

wxDC

`getPartialTextExtents(This, Text) -> Result`

Types:

```
Result = {Res::boolean(), Widths::[integer()]}
This = wxDC()
Text = unicode:chardata()
```

See [external documentation](#).

`getPen(This) -> wxPen:wxPen()`

Types:

```
This = wxDC()
```

See [external documentation](#).

`getPixel(This, Pt) -> Result`

Types:

```
Result = {Res::boolean(), Col::wx:wx_colour4()}
This = wxDC()
Pt = {X::integer(), Y::integer()}
```

See [external documentation](#).

`getPPI(This) -> {W::integer(), H::integer()}`

Types:

```
This = wxDC()
```

See [external documentation](#).

`getSize(This) -> {W::integer(), H::integer()}`

Types:

```
This = wxDC()
```

See [external documentation](#).

`getSizeMM(This) -> {W::integer(), H::integer()}`

Types:

```
This = wxDC()
```

See [external documentation](#).

`getTextBackground(This) -> wx:wx_colour4()`

Types:

```
This = wxDC()
```

See [external documentation](#).

`getTextExtent(This, String) -> {W::integer(), H::integer()}`

Types:

```
This = wxDC()
String = unicode:chardata()
```

See external documentation.

`getTextExtent(This, String, Options::[Option]) -> Result`

Types:

```
Result = {X::integer(), Y::integer(), Descent::integer(),
ExternalLeading::integer()}
This = wxDC()
String = unicode:chardata()
Option = {theFont, wxFont:wxFont()}
```

See external documentation.

`getTextForeground(This) -> wx:wx_colour4()`

Types:

```
This = wxDC()
```

See external documentation.

`getUserScale(This) -> {X::number(), Y::number()}`

Types:

```
This = wxDC()
```

See external documentation.

`gradientFillConcentric(This, Rect, InitialColour, DestColour) -> ok`

Types:

```
This = wxDC()
Rect = {X::integer(), Y::integer(), W::integer(), H::integer()}
InitialColour = wx:wx_colour()
DestColour = wx:wx_colour()
```

See external documentation.

`gradientFillConcentric(This, Rect, InitialColour, DestColour, CircleCenter) -> ok`

Types:

```
This = wxDC()
Rect = {X::integer(), Y::integer(), W::integer(), H::integer()}
InitialColour = wx:wx_colour()
DestColour = wx:wx_colour()
CircleCenter = {X::integer(), Y::integer()}
```

See external documentation.

`gradientFillLinear(This, Rect, InitialColour, DestColour) -> ok`

Types:

```
This = wxDC()
Rect = {X::integer(), Y::integer(), W::integer(), H::integer()}
```

```
InitialColour = wx:wx_colour()
DestColour = wx:wx_colour()
```

Equivalent to *gradientFillLinear*(*This*, *Rect*, *InitialColour*, *DestColour*, []).

```
gradientFillLinear(This, Rect, InitialColour, DestColour, Options:[Option])
-> ok
```

Types:

```
This = wxDC()
Rect = {X::integer(), Y::integer(), W::integer(), H::integer()}
InitialColour = wx:wx_colour()
DestColour = wx:wx_colour()
Option = {nDirection, wx:wx_enum()}
```

See [external documentation](#).

NDirection = ?wxLEFT | ?wxRIGHT | ?wxUP | ?wxDOWN | ?wxTOP | ?wxBOTTOM | ?wxNORTH | ?wxSOUTH
| ?wxWEST | ?wxEAST | ?wxALL

```
logicalToDeviceX(This, X) -> integer()
```

Types:

```
This = wxDC()
X = integer()
```

See [external documentation](#).

```
logicalToDeviceXRel(This, X) -> integer()
```

Types:

```
This = wxDC()
X = integer()
```

See [external documentation](#).

```
logicalToDeviceY(This, Y) -> integer()
```

Types:

```
This = wxDC()
Y = integer()
```

See [external documentation](#).

```
logicalToDeviceYRel(This, Y) -> integer()
```

Types:

```
This = wxDC()
Y = integer()
```

See [external documentation](#).

```
maxX(This) -> integer()
```

Types:

```
This = wxDC()
```

See [external documentation](#).

`maxY(This) -> integer()`

Types:

`This = wxDC()`

See [external documentation](#).

`minX(This) -> integer()`

Types:

`This = wxDC()`

See [external documentation](#).

`minY(This) -> integer()`

Types:

`This = wxDC()`

See [external documentation](#).

`isOk(This) -> boolean()`

Types:

`This = wxDC()`

See [external documentation](#).

`resetBoundingBox(This) -> ok`

Types:

`This = wxDC()`

See [external documentation](#).

`setAxisOrientation(This, XLeftRight, YBottomUp) -> ok`

Types:

`This = wxDC()`

`XLeftRight = boolean()`

`YBottomUp = boolean()`

See [external documentation](#).

`setBackground(This, Brush) -> ok`

Types:

`This = wxDC()`

`Brush = wxBrush:wxBrush()`

See [external documentation](#).

`setBackgroundMode(This, Mode) -> ok`

Types:

`This = wxDC()`

```
Mode = integer()
```

See [external documentation](#).

setBrush(This, Brush) -> ok

Types:

```
This = wxDC()
```

```
Brush = wxBrush:wxBrush()
```

See [external documentation](#).

setClippingRegion(This, Region) -> ok

Types:

```
This = wxDC()
```

```
Region = wxRegion:wxRegion()
```

See [external documentation](#).

Also:

setClippingRegion(This, Rect) -> 'ok' when

This::wxDC(), Rect::{X::integer(), Y::integer(), W::integer(), H::integer()}.
Types:

setClippingRegion(This, Pt, Sz) -> ok

Types:

```
This = wxDC()
```

```
Pt = {x::integer(), y::integer()}
```

```
Sz = {w::integer(), h::integer()}
```

See [external documentation](#).

setDeviceOrigin(This, X, Y) -> ok

Types:

```
This = wxDC()
```

```
X = integer()
```

```
Y = integer()
```

See [external documentation](#).

setFont(This, Font) -> ok

Types:

```
This = wxDC()
```

```
Font = wxFont:wxFont()
```

See [external documentation](#).

setLayoutDirection(This, Dir) -> ok

Types:

```
This = wxDC()
```

```
Dir = wx:wx_enum()
```

See [external documentation](#).

Dir = ?wxLayout_Default | ?wxLayout_LeftToRight | ?wxLayout_RightToLeft

setLogicalFunction(This, Function) -> ok

Types:

```
This = wxDC()
Function = wx:wx_enum()
```

See [external documentation](#).

Function = integer

setMapMode(This, Mode) -> ok

Types:

```
This = wxDC()
Mode = wx:wx_enum()
```

See [external documentation](#).

Mode = integer

setPalette(This, Palette) -> ok

Types:

```
This = wxDC()
Palette = wxPalette:wxPalette()
```

See [external documentation](#).

setPen(This, Pen) -> ok

Types:

```
This = wxDC()
Pen = wxPen:wxPen()
```

See [external documentation](#).

setTextBackground(This, Colour) -> ok

Types:

```
This = wxDC()
Colour = wx:wx_colour()
```

See [external documentation](#).

setTextForeground(This, Colour) -> ok

Types:

```
This = wxDC()
Colour = wx:wx_colour()
```

See [external documentation](#).

setUserScale(This, X, Y) -> ok

Types:

```
This = wxDC()
```

wxDC

```
x = number()  
y = number()
```

See [external documentation](#).

startDoc(This, Message) -> boolean()

Types:

```
This = wxDC()  
Message = unicode:chardata()
```

See [external documentation](#).

startPage(This) -> ok

Types:

```
This = wxDC()
```

See [external documentation](#).

wxDCOverlay

Erlang module

See external documentation: [wxDCOverlay](#).

DATA TYPES

`wxDCOverlay()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new(Overlay, Dc) -> wxDCOverlay()`

Types:

```
Overlay = wxOverlay:wxErlangOverlay()  
Dc = wxWindowDC:wxErlangWindowDC()
```

See [external documentation](#).

`new(Overlay, Dc, X, Y, Width, Height) -> wxDCOverlay()`

Types:

```
Overlay = wxOverlay:wxErlangOverlay()  
Dc = wxWindowDC:wxErlangWindowDC()  
X = integer()  
Y = integer()  
Width = integer()  
Height = integer()
```

See [external documentation](#).

`clear(This) -> ok`

Types:

```
This = wxDCOverlay()
```

See [external documentation](#).

`destroy(This::wxDCOverlay()) -> ok`

Destroys this object, do not use object again

wxDataObject

Erlang module

See external documentation: **wxDataObject**.

DATA TYPES

`wxDataObject()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparison stored on disc or distributed for use on other nodes.

wxDateEvent

Erlang module

See external documentation: **wxDateEvent**.

Use *wxEvtHandler:connect/3* with EventType:

date_changed

See also the message variant `#wxDate{}` event record type.

This class is derived (and can use functions) from:

wxCommandEvent

wxEvent

DATA TYPES

`wxDateEvent()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`getDate(This) -> wx:wx_datetime()`

Types:

`This = wxDateEvent()`

See **external documentation**.

wxDatePickerCtrl

Erlang module

See external documentation: **wxDatePickerCtrl**.

This class is derived (and can use functions) from:

wxPickerBase
wxControl
wxWindow
wxEvtHandler

DATA TYPES

`wxDatePickerCtrl()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxDatePickerCtrl()`

See **external documentation**.

`new(Parent, Id) -> wxDatePickerCtrl()`

Types:

```
Parent = wxWindow:wxWindow()  
Id = integer()
```

Equivalent to `new(Parent, Id, [])`.

`new(Parent, Id, Options::[Option]) -> wxDatePickerCtrl()`

Types:

```
Parent = wxWindow:wxWindow()  
Id = integer()  
Option = {date, wx:wx_datetime()} | {pos, {x::integer(), y::integer()} }  
| {size, {W::integer(), H::integer()} } | {style, integer()} | {validator,  
wx:wx_object()}
```

See **external documentation**.

`getRange(This, Dt1, Dt2) -> boolean()`

Types:

```
This = wxDatePickerCtrl()  
Dt1 = wx:wx_datetime()  
Dt2 = wx:wx_datetime()
```

See **external documentation**.

getValue(This) -> wx:wx_datetime()

Types:

This = `wxDatePickerCtrl()`

See [external documentation](#).

setRange(This, Dt1, Dt2) -> ok

Types:

This = `wxDatePickerCtrl()`

Dt1 = `wx:wx_datetime()`

Dt2 = `wx:wx_datetime()`

See [external documentation](#).

setValue(This, Date) -> ok

Types:

This = `wxDatePickerCtrl()`

Date = `wx:wx_datetime()`

See [external documentation](#).

destroy(This::wxDatePickerCtrl()) -> ok

Destroys this object, do not use object again

wxDialog

Erlang module

See external documentation: **wxDIALOG**.

This class is derived (and can use functions) from:

wxTopLevelWindow

wxWindow

wxEvtHandler

DATA TYPES

`wxDialog()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxDialog()`

See **external documentation**.

`new(Parent, Id, Title) -> wxDialog()`

Types:

```
Parent = wxWindow:wxWindow()
Id = integer()
Title = unicode:chardata()
```

Equivalent to `new(Parent, Id, Title, [])`.

`new(Parent, Id, Title, Options:[Option]) -> wxDialog()`

Types:

```
Parent = wxWindow:wxWindow()
Id = integer()
Title = unicode:chardata()
Option = {pos, {X::integer(), Y::integer()}} | {size, {W::integer(),
H::integer()}} | {style, integer()}
```

See **external documentation**.

`create(This, Parent, Id, Title) -> boolean()`

Types:

```
This = wxDialog()
Parent = wxWindow:wxWindow()
Id = integer()
Title = unicode:chardata()
```

Equivalent to `create(This, Parent, Id, Title, [])`.

```
create(This, Parent, Id, Title, Options:[Option]) -> boolean()
```

Types:

```
This = wxDialog()
Parent = wxWindow:wxWindow()
Id = integer()
Title = unicode:chardata()
Option = {pos, {X::integer(), Y::integer()}} | {size, {W::integer(),
H::integer()}} | {style, integer()}
```

See [external documentation](#).

```
createButtonSizer(This, Flags) -> wxSizer:wxSizer()
```

Types:

```
This = wxDialog()
Flags = integer()
```

See [external documentation](#).

```
createStdDialogButtonSizer(This, Flags) ->
wxStdDialogButtonSizer:wxStdDialogButtonSizer()
```

Types:

```
This = wxDialog()
Flags = integer()
```

See [external documentation](#).

```
endModal(This, RetCode) -> ok
```

Types:

```
This = wxDialog()
RetCode = integer()
```

See [external documentation](#).

```
getAffirmativeId(This) -> integer()
```

Types:

```
This = wxDialog()
```

See [external documentation](#).

```
getReturnCode(This) -> integer()
```

Types:

```
This = wxDialog()
```

See [external documentation](#).

```
isModal(This) -> boolean()
```

Types:

```
This = wxDialog()
```

See [external documentation](#).

wxDialog

`setAffirmativeId(This, AffirmativeId) -> ok`

Types:

```
This = wxDialog()
AffirmativeId = integer()
```

See [external documentation](#).

`setReturnCode(This, ReturnCode) -> ok`

Types:

```
This = wxDialog()
ReturnCode = integer()
```

See [external documentation](#).

`show(This) -> boolean()`

Types:

```
This = wxDialog()
```

Equivalent to `show(This, [])`.

`show(This, Options:[Option]) -> boolean()`

Types:

```
This = wxDialog()
Option = {show, boolean()}
```

See [external documentation](#).

`showModal(This) -> integer()`

Types:

```
This = wxDialog()
```

See [external documentation](#).

`destroy(This::wxDialog()) -> ok`

Destroys this object, do not use object again

wxDirDialog

Erlang module

See external documentation: **wxDirDialog**.

This class is derived (and can use functions) from:

wxDialog
wxTopLevelWindow
wxWindow
wxEvtHandler

DATA TYPES

`wxDirDialog()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new(Parent) -> wxDirDialog()`

Types:

`Parent = wxWindow:wxWindow()`

Equivalent to `new(Parent, [])`.

`new(Parent, Options:[Option]) -> wxDirDialog()`

Types:

`Parent = wxWindow:wxWindow()`

`Option = {title, unicode:chardata()} | {defaultPath, unicode:chardata()}
| {style, integer()} | {pos, {X::integer(), Y::integer()}} | {sz,
{W::integer(), H::integer()}}`

See **external documentation**.

`getPath(This) -> unicode:charlist()`

Types:

`This = wxDirDialog()`

See **external documentation**.

`getMessage(This) -> unicode:charlist()`

Types:

`This = wxDirDialog()`

See **external documentation**.

`setMessage(This, Message) -> ok`

Types:

`This = wxDirDialog()`

wxDirDialog

Message = unicode:chardata()

See [external documentation](#).

setPath(This, Path) -> ok

Types:

This = wxDirDialog()

Path = unicode:chardata()

See [external documentation](#).

destroy(This::wxDirDialog()) -> ok

Destroys this object, do not use object again

wxDirPickerCtrl

Erlang module

See external documentation: **wxDirPickerCtrl**.

This class is derived (and can use functions) from:

wxPickerBase
wxControl
wxWindow
wxEvtHandler

DATA TYPES

`wxDirPickerCtrl()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxDirPickerCtrl()`

See **external documentation**.

`new(Parent, Id) -> wxDirPickerCtrl()`

Types:

```
Parent = wxWindow:wxWindow()  
Id = integer()
```

Equivalent to `new(Parent, Id, [])`.

`new(Parent, Id, Options:[Option]) -> wxDirPickerCtrl()`

Types:

```
Parent = wxWindow:wxWindow()  
Id = integer()  
Option = {path, unicode:chardata()} | {message, unicode:chardata()} |  
{pos, {X::integer(), Y::integer()}} | {size, {W::integer(), H::integer()}} |  
{style, integer()} | {validator, wx:wx_object()}
```

See **external documentation**.

`create(This, Parent, Id) -> boolean()`

Types:

```
This = wxDirPickerCtrl()  
Parent = wxWindow:wxWindow()  
Id = integer()
```

Equivalent to `create(This, Parent, Id, [])`.

wxDirPickerCtrl

create(This, Parent, Id, Options:[Option]) -> boolean()

Types:

```
This = wxDirPickerCtrl()  
Parent = wxWindow:wxWindow()  
Id = integer()  
Option = {path, unicode:chardata()} | {message, unicode:chardata()} |  
{pos, {X::integer(), Y::integer()}} | {size, {W::integer(), H::integer()}}  
| {style, integer()} | {validator, wx:wx_object()}
```

See [external documentation](#).

getPath(This) -> unicode:charlist()

Types:

```
This = wxDirPickerCtrl()
```

See [external documentation](#).

setPath(This, Str) -> ok

Types:

```
This = wxDirPickerCtrl()  
Str = unicode:chardata()
```

See [external documentation](#).

destroy(This::wxDirPickerCtrl()) -> ok

Destroys this object, do not use object again

wxDisplayChangedEvent

Erlang module

See external documentation: **wxDisplayChangedEvent**.

Use *wxEvtHandler:connect/3* with EventType:

display_changed

See also the message variant `#wxDisplayChanged{}` event record type.

This class is derived (and can use functions) from:

wxEvent

DATA TYPES

`wxDisplayChangedEvent()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

wxDropFilesEvent

Erlang module

See external documentation: **wxDropFilesEvent**.

Use *wxEvtHandler:connect/3* with EventType:

drop_files

See also the message variant `#wxDropFiles{}` event record type.

This class is derived (and can use functions) from:

wxEvent

DATA TYPES

`wxDropFilesEvent()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`getPosition(This) -> {X::integer(), Y::integer()}`

Types:

`This = wxDropFilesEvent()`

See **external documentation**.

`getNumberOfFiles(This) -> integer()`

Types:

`This = wxDropFilesEvent()`

See **external documentation**.

`getFiles(This) -> [unicode:charlist()]`

Types:

`This = wxDropFilesEvent()`

See **external documentation**.

wxEraseEvent

Erlang module

See external documentation: **wxEraseEvent**.

Use *wxEvtHandler:connect/3* with EventType:

erase_background

See also the message variant `#wxErase{}` event record type.

This class is derived (and can use functions) from:

wxEvent

DATA TYPES

`wxEraseEvent()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`getDC(This) -> wxDC:wxDC()`

Types:

`This = wxEraseEvent()`

See **external documentation**.

wxEvent

Erlang module

See external documentation: **wxEvent**.

DATA TYPES

`wxEvent()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`getId(This) -> integer()`

Types:

`This = wxEvent()`

See **external documentation**.

`getSkipped(This) -> boolean()`

Types:

`This = wxEvent()`

See **external documentation**.

`getTimestamp(This) -> integer()`

Types:

`This = wxEvent()`

See **external documentation**.

`isCommandEvent(This) -> boolean()`

Types:

`This = wxEvent()`

See **external documentation**.

`resumePropagation(This, PropagationLevel) -> ok`

Types:

`This = wxEvent()`

`PropagationLevel = integer()`

See **external documentation**.

`shouldPropagate(This) -> boolean()`

Types:

`This = wxEvent()`

See **external documentation**.

`skip(This) -> ok`

Types:

`This = wxEvent()`

Equivalent to `skip(This, []).`

`skip(This, Options::[Option]) -> ok`

Types:

`This = wxEvent()`

`Option = {skip, boolean()}`

See [external documentation](#).

`stopPropagation(This) -> integer()`

Types:

`This = wxEvent()`

See [external documentation](#).

wxEvtHandler

Erlang module

The Event handler.

To get events from wxwidgets objects you subscribe to them by calling connect/[2-3]. Events are sent as messages, if no callback was supplied These messages will be #wx{} where EventRecord is a record that depends on the *event type*. The records are defined in: wx/include/wx.hrl.

If a callback was supplied to connect, the callback will be invoked (in another process) to handle the event. The callback should be of arity 2. fun(EventRecord::wx(), EventObject::wxObject()).

Beware that the callback will be in executed in new process each time.

The orginal documentation.

DATA TYPES

event() = *wxActivate()* | *wxAuiManager()* | *wxAuiNotebook()* | *wxCalendar()* | *wxChildFocus()* | *wxClipboardText()* | *wxClose()* | *wxColourPicker()* | *wxCommand()* | *wxContextMenu()* | *wxDate()* | *wxDisplayChanged()* | *wxDropFiles()* | *wxErase()* | *wxFileDirPicker()* | *wxFocus()* | *wxFontPicker()* | *wxGrid()* | *wxHelp()* | *wxHtmlLink()* | *wxIconize()* | *wxIdle()* | *wxInitDialog()* | *wxJoystick()* | *wxKey()* | *wxList()* | *wxMaximize()* | *wxMenu()* | *wxMouse()* | *wxMouseCaptureChanged()* | *wxMouseCaptureLost()* | *wxMove()* | *wxNavigationKey()* | *wxNotebook()* | *wxPaint()* | *wxPaletteChanged()* | *wxQueryNewPalette()* | *wxSash()* | *wxScroll()* | *wxScrollWin()* | *wxSetCursor()* | *wxShow()* | *wxSize()* | *wxSpin()* | *wxSplitter()* | *wxStyledText()* | *wxSysColourChanged()* | *wxTaskBarIcon()* | *wxTree()* | *wxUpdateUI()* | *wxWindowCreate()* | *wxWindowDestroy()*

wx() = #wx{id=integer(), obj=wx:wx_object(), userData=term(), event=event()}

wxActivate() = #wxActivate{type=*wxActivateEventType()*, active=boolean()}

wxActivateEventType() = activate | activate_app | hibernate

wxAuiManager() = #wxAuiManager{type=*wxAuiManagerEventType()*, manager=*wxAuiManager:wxAuiManager()*, pane=*wxAuiPaneInfo:wxAuiPaneInfo()*, button=integer(), veto_flag=boolean(), canveto_flag=boolean(), dc=*wxDC:wxDC()*}

wxAuiManagerEventType() = aui_pane_button | aui_pane_close | aui_pane_maximize | aui_pane_restore | aui_pane_activated | aui_render | aui_find_manager

wxAuiNotebook() = #wxAuiNotebook{type=*wxAuiNotebookEventType()*, old_selection=integer(), selection=integer(), drag_source=*wxAuiNotebook:wxAuiNotebook()*}

wxAuiNotebookEventType() = command_auinotebook_page_close | command_auinotebook_page_changed | command_auinotebook_page_changing | command_auinotebook_button | command_auinotebook_begin_drag | command_auinotebook_end_drag | command_auinotebook_drag_motion | command_auinotebook_allow_dnd | command_auinotebook_tab_middle_down | command_auinotebook_tab_middle_up | command_auinotebook_tab_right_down | command_auinotebook_tab_right_up | command_auinotebook_page_closed | command_auinotebook_drag_done | command_auinotebook_bg_dclick

wxCalendar() = #wxCalendar{type=*wxCalendarEventType()*, wday=*wx:wx_enum()*, date=*wx:wx_datetime()*}

wxCalendarEventType() = calendar_sel_changed | calendar_day_changed | calendar_month_changed | calendar_year_changed | calendar_doubleclicked | calendar_weekday_clicked

```

wxChildFocus() = #wxChildFocus{type=wxChildFocusEventType()}

wxChildFocusEventType() = child_focus

wxClipboardText() = #wxClipboardText{type=wxClipboardTextEventType()}

wxClipboardTextEventType() = command_text_copy | command_text_cut | command_text_paste

wxClose() = #wxClose{type=wxCloseEventType()}

wxCloseEventType() = close_window | end_session | query_end_session

wxColourPicker() = #wxColourPicker{type=wxColourPickerEventType(), colour=wx:wx_colour()}

wxColourPickerEventType() = command_colourpicker_changed

wxCommand() = #wxCommand{type=wxCommandEventType(), cmdString=unicode:chardata(),
commandInt=integer(), extraLong=integer()}

wxCommandEventType() = command_button_clicked | command_checkbox_clicked | command_choice_selected
| command_listbox_selected | command_listbox_doubleclicked | command_text_updated |
command_text_enter | command_menu_selected | command_slider_updated | command_radiobox_selected
| command_radiobutton_selected | command_scrollbar_updated | command_vlbox_selected |
command_combobox_selected | command_tool_rclicked | command_tool_enter | command_checklistbox_toggled
| command_togglebutton_clicked | command_left_click | command_left_dclick | command_right_click |
command_set_focus | command_kill_focus | command_enter

wxContextMenu() = #wxContextMenu{type=wxContextMenuEventType(), pos={X::integer(), Y::integer()}}

wxContextMenuEventType() = context_menu

wxDate() = #wxDate{type=wxDateEventType(), date=wx:wx_datetime()}

wxDateEventType() = date_changed

wxDisplayChanged() = #wxDisplayChanged{type=wxDisplayChangedEventType()}

wxDisplayChangedEventType() = display_changed

wxDropFiles() = #wxDropFiles{type=wxDropFilesEventType(), noFiles=integer(), pos={X::integer(), Y::integer()},
files=[unicode:chardata()]}

wxDropFilesEventType() = drop_files

wxErase() = #wxErase{type=wxEraseEventType(), dc=wxDC:wxDC()}

wxEraseEventType() = erase_background

wxEventType() = wxActivateEventType() | wxAuiManagerEventType() | wxAuiNotebookEventType() |
wxCalendarEventType() | wxChildFocusEventType() | wxClipboardTextEventType() | wxCloseEventType() |
wxColourPickerEventType() | wxCommandEventType() | wxContextMenuEventType() | wxDateEventType() |
wxDisplayChangedEventType() | wxDropFilesEventType() | wxEraseEventType() | wxFileDirPickerEventType() |
| wxFocusEventType() | wxFontPickerEventType() | wxGridEventType() | wxHelpEventType() |
wxHtmlLinkEventType() | wxIconizeEventType() | wxIdleEventType() | wxInitDialogEventType() |
wxJoystickEventType() | wxKeyEventType() | wxListEventType() | wxMaximizeEventType() | wxMenuEventType()

```

wxEvtHandler

```
| wxMouseCaptureChangedEventType() | wxMouseCaptureLostEventType() | wxMouseEventType() |
wxMoveEventType() | wxNavigationKeyEventType() | wxNotebookEventType() | wxPaintEventType() |
wxPaletteChangedEventType() | wxQueryNewPaletteEventType() | wxSashEventType() | wxScrollEventType() |
wxScrollWinEventType() | wxSetCursorEventType() | wxShowEventType() | wxSizeEventType() | wxSpinEventType() |
| wxSplitterEventType() | wxStyledTextEventType() | wxSysColourChangedEventType() | wxTaskBarIconEventType() |
| wxTreeEventType() | wxUpdateUIEventType() | wxWindowCreateEventType() | wxWindowDestroyEventType()

wxEvtHandler() = wx:wx_object()

wxFileDirPicker() = #wxFileDirPicker{type=wxFileDirPickerEventType(), path=unicode:chardata()}

wxFileDirPickerEventType() = command_filepicker_changed | command_dirpicker_changed

wxFocus() = #wxFocus{type=wxFocusEventType(), win=wxWindow:wxWindow()}

wxFocusEventType() = set_focus | kill_focus

wxFontPicker() = #wxFontPicker{type=wxFontPickerEventType(), font=wxFont:wxFont()}

wxFontPickerEventType() = command_fontpicker_changed

wxGrid() = #wxGrid{type=wxGridEventType(), row=integer(), col=integer(), x=integer(), y=integer(),
selecting=boolean(), control=boolean(), meta=boolean(), shift=boolean(), alt=boolean()}

wxGridEventType() = grid_cell_left_click | grid_cell_right_click | grid_cell_left_dclick | grid_cell_right_dclick |
| grid_label_left_click | grid_label_right_click | grid_label_left_dclick | grid_label_right_dclick | grid_row_size |
grid_col_size | grid_range_select | grid_cell_change | grid_select_cell | grid_editor_shown | grid_editor_hidden |
grid_editor_created | grid_cell_begin_drag

wxHelp() = #wxHelp{type=wxHelpEventType()}

wxHelpEventType() = help | detailed_help

wxHtmlLink() = #wxHtmlLink{type=wxHtmlLinkEventType(), linkInfo=wx:wxHtmlLinkInfo()}

wxHtmlLinkEventType() = command_html_link_clicked

wxIconize() = #wxIconize{type=wxIconizeEventType(), iconized=boolean()}

wxIconizeEventType() = iconize

wxIdle() = #wxIdle{type=wxIdleEventType()}

wxIdleEventType() = idle

wxInitDialog() = #wxInitDialog{type=wxInitDialogEventType()}

wxInitDialogEventType() = init_dialog

wxJoystick() = #wxJoystick{type=wxJoystickEventType(), pos={X::integer(), Y::integer()}, zPosition=integer(),
buttonChange=integer(), buttonState=integer(), joyStick=integer()}

wxJoystickEventType() = joy_button_down | joy_button_up | joy_move | joy_zmove
```

```

wxKey() = #wxKey{type=wxKeyEvent(), x=integer(), y=integer(), keyCode=integer(),
controlDown=boolean(), shiftDown=boolean(), altDown=boolean(), metaDown=boolean(), scanCode=boolean(),
uniChar=integer(), rawCode=integer(), rawFlags=integer()}

wxKeyEvent() = char | char_hook | key_down | key_up

wxList() = #wxList{type=wxListEvent(), code=integer(), oldItemIndex=integer(), itemIndex=integer(),
col=integer(), pointDrag={X::integer(), Y::integer()}}

wxListEvent() = command_list_begin_drag | command_list_begin_rdrag | command_list_begin_label_edit
| command_list_end_label_edit | command_list_delete_item | command_list_delete_all_items |
command_list_key_down | command_list_insert_item | command_list_col_click | command_list_col_right_click
| command_list_col_begin_drag | command_list_col_dragging | command_list_col_end_drag |
command_list_item_selected | command_list_item_deselected | command_list_item_right_click |
command_list_item_middle_click | command_list_item_activated | command_list_item_focused |
command_list_cache_hint

wxMaximize() = #wxMaximize{type=wxMaximizeEvent()}

wxMaximizeEvent() = maximize

wxMenu() = #wxMenu{type=wxMenuEvent(), menuId=integer(), menu=wxMenu:wxMenu()}

wxMenuEvent() = menu_open | menu_close | menu_highlight

wxMouse() = #wxMouse{type=wxMouseEvent(), x=integer(), y=integer(), leftDown=boolean(),
middleDown=boolean(), rightDown=boolean(), controlDown=boolean(), shiftDown=boolean(), altDown=boolean(),
metaDown=boolean(), wheelRotation=integer(), wheelDelta=integer(), linesPerAction=integer()}

wxMouseCaptureChanged() = #wxMouseCaptureChanged{type=wxMouseCaptureChangedEvent()}

wxMouseCaptureChangedEvent() = mouse_capture_changed

wxMouseCaptureLost() = #wxMouseCaptureLost{type=wxMouseCaptureLostEvent()}

wxMouseCaptureLostEvent() = mouse_capture_lost

wxMouseEvent() = left_down | left_up | middle_down | middle_up | right_down | right_up | motion |
enter_window | leave_window | left_dclick | middle_dclick | right_dclick | mousewheel

wxMove() = #wxMove{type=wxMoveEvent(), pos={X::integer(), Y::integer()}, rect={X::integer(),
Y::integer(), W::integer(), H::integer()}}

wxMoveEvent() = move

wxNavigationKey() = #wxNavigationKey{type=wxNavigationKeyEvent(), flags=integer(),
focus=wxWindow:wxWindow()}

wxNavigationKeyEvent() = navigation_key

wxNotebook() = #wxNotebook{type=wxNotebookEvent(), nSel=integer(), nOldSel=integer()}

wxNotebookEvent() = command_notebook_page_changed | command_notebook_page_changing

wxPaint() = #wxPaint{type=wxPaintEvent()}

```

wxEvtHandler

```
wxPaintEventType() = paint
wxPaletteChanged() = #wxPaletteChanged{type=wxPaletteChangedEvent}
wxPaletteChangedEvent() = palette_changed
wxQueryNewPalette() = #wxQueryNewPalette{type=wxQueryNewPaletteEvent}
wxQueryNewPaletteEvent() = query_new_palette
wxSash() = #wxSash{type=wxSashEvent(), edge=wx:wx_enum(), dragRect={X::integer(), Y::integer(), W::integer(), H::integer()}, dragStatus=wx:wx_enum()}
wxSashEvent() = sash_dragged
wxScroll() = #wxScroll{type=wxScrollEvent(), commandInt=integer(), extraLong=integer()}
wxScrollEventType() = scroll_top | scroll_bottom | scroll_lineup | scroll_linedown | scroll_pageup |
scroll_pagedown | scroll_thumbtrack | scroll_thumbrerelease | scroll_changed
wxScrollWin() = #wxScrollWin{type=wxScrollWinEvent(), commandInt=integer(), extraLong=integer()}
wxScrollWinEvent() = scrollwin_top | scrollwin_bottom | scrollwin_lineup | scrollwin_linedown |
scrollwin_pageup | scrollwin_pagedown | scrollwin_thumbtrack | scrollwin_thumbrerelease
wxSetCursor() = #wxSetCursor{type=wxSetCursorEvent(), x=integer(), y=integer(),
cursor=wxCursor:wxCursor()}
wxSetCursorEvent() = set_cursor
wxShow() = #wxShow{type=wxShowEvent(), show=boolean()}
wxShowEvent() = show
wxSize() = #wxSize{type=wxSizeEvent(), size={W::integer(), H::integer()}, rect={X::integer(), Y::integer(), W::integer(), H::integer()}}
wxSizeEvent() = size
wxSpin() = #wxSpin{type=wxSpinEvent(), commandInt=integer()}
wxSpinEvent() = command_spinctrl_updated | spin_up | spin_down | spin
wxSplitter() = #wxSplitter{type=wxSplitterEvent()}
wxSplitterEvent() = command_splitter_sash_pos_changed | command_splitter_sash_pos_changing |
command_splitter_doubleclicked | command_splitter_unsplit
wxStyledText() = #wxStyledText{type=wxStyledTextEvent(), position=integer(), key=integer(),
modifiers=integer(), modificationType=integer(), text=unicode:charData(), length=integer(), linesAdded=integer(),
line=integer(), foldLevelNow=integer(), foldLevelPrev=integer(), margin=integer(), message=integer(),
wParam=integer(), lParam=integer(), listType=integer(), x=integer(), y=integer(), dragText=unicode:charData(),
dragAllowMove=boolean(), dragResult=wx:wx_enum()}
wxStyledTextEvent() = stc_change | stc_styleneeded | stc_charadded | stc_savepointreached | stc_savepointleft |
stc_romodifyattempt | stc_key | stc_doubleclick | stc_updateui | stc_modified | stc_makrorecord | stc_marginclick
```

| stc_needsshown | stc_painted | stc_userlistselection | stc_uridropped | stc_dwellstart | stc_dwellend |
stc_start_drag | stc_drag_over | stc_do_drop | stc_zoom | stc_hotspot_click | stc_hotspot_dclick | stc_calltip_click |
stc_autocomp_selection

wxSysColourChanged() = #wxSysColourChanged{type=*wxSysColourChangedEventType()*}

wxSysColourChangedEventType() = sys_colour_changed

wxTaskBarIcon() = #wxTaskBarIcon{type=*wxTaskBarIconEventType()*}

wxTaskBarIconEventType() = taskbar_move | taskbar_left_down | taskbar_left_up | taskbar_right_down |
taskbar_right_up | taskbar_left_dclick | taskbar_right_dclick

wxTree() = #wxTree{type=*wxTreeEventType()*, item=integer(), itemOld=integer(), pointDrag={X::integer(),
Y::integer()} }

wxTreeEventType() = command_tree_begin_drag | command_tree_begin_rdrag | command_tree_begin_label_edit
| command_tree_end_label_edit | command_tree_delete_item | command_tree_get_info | command_tree_set_info
| command_tree_item_expanded | command_tree_item_expanding | command_tree_item_collapsed
| command_tree_item_collapsing | command_tree_sel_changed | command_tree_sel_changing |
command_tree_key_down | command_tree_item_activated | command_tree_item_right_click |
command_tree_item_middle_click | command_tree_end_drag | command_tree_state_image_click |
command_tree_item_gettooltip | command_tree_item_menu

wxUpdateUI() = #wxUpdateUI{type=*wxUpdateUIEventType()*}

wxUpdateUIEventType() = update_ui

wxWindowCreate() = #wxWindowCreate{type=*wxWindowCreateEventType()*}

wxWindowCreateEventType() = create

wxWindowDestroy() = #wxWindowDestroy{type=*wxWindowDestroyEventType()*}

wxWindowDestroyEventType() = destroy

Exports

connect(This::wxEvtHandler(), EventType::wxEventType()) -> ok

Equivalent to *connect(This, EventType, [])*

connect(This::wxEvtHandler(), EventType::wxEventType(), Options::[Option]) -> ok

Types:

```
Option = {id, integer()} | {lastId, integer()} | {skip, boolean()} |  
callback | {callback, function()} | {userData, term()}
```

This function subscribes the to events of EventType, in the range id, lastId. The events will be received as messages if no callback is supplied.

Options: {id, integer()}, The identifier (or first of the identifier range) to be associated with this event handler.
Default ?wxID_ANY {lastId, integer()}, The second part of the identifier range. If used 'id' must be set as the starting identifier range. Default ?wxID_ANY {skip, boolean()}, If skip is true further event_handlers will be called. This is

wxEvtHandler

not used if the 'callback' option is used. Default false. {callback, function()} Use a callback fun(EventRecord::wx(), EventObject::wxObject()) to process the event. Default not specified i.e. a message will be delivered to the process calling this function. {userData, term()} An erlang term that will be sent with the event. Default: [].

`disconnect(This::wxEvtHandler()) -> boolean()`

Equivalent to `disconnect(This, null, [])` Can also have an optional callback Fun() as an additional last argument.

`disconnect(This::wxEvtHandler(), EventType::wxEventType()) -> boolean()`

Equivalent to `disconnect(This, EventType, [])`

`disconnect(This::wxEvtHandler(), EventType::wxEventType(), Opts::[Option]) -> boolean()`

Types:

`Option = {id, integer()} | {lastId, integer()} | {callback, function()}`

See **external documentation** This function unsubscribes the process or callback fun from the event handler. EventType may be the atom 'null' to match any eventtype. Notice that the options skip and userdata is not used to match the evenhandler.

wxFileDataObject

Erlang module

See external documentation: **wxFileDataObject**.

This class is derived (and can use functions) from:
wxDataObject

DATA TYPES

`wxFileDataObject()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxFileDataObject()`

See **external documentation**.

`addFile(This, Filename) -> ok`

Types:

```
This = wxFileDataObject()  
Filename = unicode:chardata()
```

See **external documentation**.

`getFilenames(This) -> [unicode:charlist()]`

Types:

```
This = wxFileDataObject()
```

See **external documentation**.

`destroy(This::wxFileDataObject()) -> ok`

Destroys this object, do not use object again

wxFileDialog

Erlang module

See external documentation: **wxFileDialog**.

This class is derived (and can use functions) from:

wxDialo
wxTopLevelWindow
wxWindow
wxEvtHandler

DATA TYPES

`wxFileDialog()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new(Parent) -> wxFileDialog()`

Types:

`Parent = wxWindow:wxWindow()`

Equivalent to `new(Parent, [])`.

`new(Parent, Options:[Option]) -> wxFileDialog()`

Types:

```
Parent = wxWindow:wxWindow()
Option = {message, unicode:chardata()} | {defaultDir, unicode:chardata()}
| {defaultFile, unicode:chardata()} | {wildCard, unicode:chardata()}
| {style, integer()} | {pos, {X::integer(), Y::integer()}} | {sz,
{W::integer(), H::integer()}}
```

See external documentation.

`getDirectory(This) -> unicode:charlist()`

Types:

`This = wxFileDialog()`

See external documentation.

`getFilename(This) -> unicode:charlist()`

Types:

`This = wxFileDialog()`

See external documentation.

`getFilenames(This) -> [unicode:charlist()]`

Types:

```
This = wxFileDialog()
```

See [external documentation](#).

```
getFilterIndex(This) -> integer()
```

Types:

```
This = wxFileDialog()
```

See [external documentation](#).

```
getMessage(This) -> unicode:charlist()
```

Types:

```
This = wxFileDialog()
```

See [external documentation](#).

```
getPath(This) -> unicode:charlist()
```

Types:

```
This = wxFileDialog()
```

See [external documentation](#).

```
getPaths(This) -> [unicode:charlist()]
```

Types:

```
This = wxFileDialog()
```

See [external documentation](#).

```
getWildcard(This) -> unicode:charlist()
```

Types:

```
This = wxFileDialog()
```

See [external documentation](#).

```
setDirectory(This, Dir) -> ok
```

Types:

```
This = wxFileDialog()
```

```
Dir = unicode:chardata()
```

See [external documentation](#).

```
setFilename(This, Name) -> ok
```

Types:

```
This = wxFileDialog()
```

```
Name = unicode:chardata()
```

See [external documentation](#).

```
setFilterIndex(This, FilterIndex) -> ok
```

Types:

```
This = wxFileDialog()
```

wxFileDialog

FilterIndex = integer()

See [external documentation](#).

setMessage(This, Message) -> ok

Types:

This = wxFileDialog()
Message = unicode:chardata()

See [external documentation](#).

setPath(This, Path) -> ok

Types:

This = wxFileDialog()
Path = unicode:chardata()

See [external documentation](#).

setWildcard(This, WildCard) -> ok

Types:

This = wxFileDialog()
WildCard = unicode:chardata()

See [external documentation](#).

destroy(This::wxFileDialog()) -> ok

Destroys this object, do not use object again

wxFileDirPickerEvent

Erlang module

See external documentation: **wxFileDirPickerEvent**.

Use *wxEvtHandler:connect/3* with EventType:

command_filepicker_changed, command_dirpicker_changed

See also the message variant `#wxFileDirPicker{}` event record type.

This class is derived (and can use functions) from:

wxCommandEvent

wxEvent

DATA TYPES

`wxFileDirPickerEvent()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`getPath(This) -> unicode:charlist()`

Types:

`This = wxFileDirPickerEvent()`

See **external documentation**.

wxFilePickerCtrl

Erlang module

See external documentation: **wxFilePickerCtrl**.

This class is derived (and can use functions) from:

wxPickerBase
wxControl
wxWindow
wxEvtHandler

DATA TYPES

`wxFilePickerCtrl()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxFilePickerCtrl()`

See **external documentation**.

`new(Parent, Id) -> wxFilePickerCtrl()`

Types:

```
Parent = wxWindow:wxWindow()  
Id = integer()
```

Equivalent to `new(Parent, Id, [])`.

`new(Parent, Id, Options::[Option]) -> wxFilePickerCtrl()`

Types:

```
Parent = wxWindow:wxWindow()  
Id = integer()  
Option = {path, unicode:chardata()} | {message, unicode:chardata()} |  
{wildcard, unicode:chardata()} | {pos, {X::integer(), Y::integer()}} |  
{size, {W::integer(), H::integer()}} | {style, integer()} | {validator,  
wx:wx_object()}
```

See **external documentation**.

`create(This, Parent, Id) -> boolean()`

Types:

```
This = wxFilePickerCtrl()  
Parent = wxWindow:wxWindow()  
Id = integer()
```

Equivalent to `create(This, Parent, Id, [])`.

```
create(This, Parent, Id, Options::[Option]) -> boolean()
```

Types:

```
This = wxFilePickerCtrl()  
Parent = wxWindow:wxWindow()  
Id = integer()  
Option = {path, unicode:chardata()} | {message, unicode:chardata()} |  
{wildcard, unicode:chardata()} | {pos, {X::integer(), Y::integer()}} |  
{size, {W::integer(), H::integer()}} | {style, integer()} | {validator,  
wx:wx_object()}
```

See [external documentation](#).

```
getPath(This) -> unicode:charlist()
```

Types:

```
This = wxFilePickerCtrl()
```

See [external documentation](#).

```
setPath(This, Str) -> ok
```

Types:

```
This = wxFilePickerCtrl()  
Str = unicode:chardata()
```

See [external documentation](#).

```
destroy(This::wxFilePickerCtrl()) -> ok
```

Destroys this object, do not use object again

wxFindReplaceData

Erlang module

See external documentation: **wxFindReplaceData**.

DATA TYPES

wxFindReplaceData()

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxFindReplaceData()`

See **external documentation**.

`new(Flags) -> wxFindReplaceData()`

Types:

`Flags = integer()`

See **external documentation**.

`getFindString(This) -> unicode:charlist()`

Types:

`This = wxFindReplaceData()`

See **external documentation**.

`getReplaceString(This) -> unicode:charlist()`

Types:

`This = wxFindReplaceData()`

See **external documentation**.

`getFlags(This) -> integer()`

Types:

`This = wxFindReplaceData()`

See **external documentation**.

`setFlags(This, Flags) -> ok`

Types:

`This = wxFindReplaceData()`

`Flags = integer()`

See **external documentation**.

`setFindString(This, Str) -> ok`

Types:

`This = wxFindReplaceData()`

`Str = unicode:chardata()`

See [external documentation](#).

`setReplaceString(This, Str) -> ok`

Types:

`This = wxFindReplaceData()`

`Str = unicode:chardata()`

See [external documentation](#).

`destroy(This::wxFindReplaceData()) -> ok`

Destroys this object, do not use object again

wxFindReplaceDialog

Erlang module

See external documentation: **wxFindReplaceDialog**.

This class is derived (and can use functions) from:

wxDialog
wxTopLevelWindow
wxWindow
wxEvtHandler

DATA TYPES

wxFindReplaceDialog()

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

new() -> `wxFindReplaceDialog()`

See **external documentation**.

new(Parent, Data, Title) -> `wxFindReplaceDialog()`

Types:

```
Parent = wxWindow:wxWindow()
Data = wxFindReplaceData:wxFindReplaceData()
Title = unicode:chardata()
```

Equivalent to `new(Parent, Data, Title, [])`.

new(Parent, Data, Title, Options:[Option]) -> `wxFindReplaceDialog()`

Types:

```
Parent = wxWindow:wxWindow()
Data = wxFindReplaceData:wxFindReplaceData()
Title = unicode:chardata()
Option = {style, integer()}
```

See **external documentation**.

create(This, Parent, Data, Title) -> `boolean()`

Types:

```
This = wxFindReplaceDialog()
Parent = wxWindow:wxWindow()
Data = wxFindReplaceData:wxFindReplaceData()
Title = unicode:chardata()
```

Equivalent to `create(This, Parent, Data, Title, [])`.

create(This, Parent, Data, Title, Options::[Option]) -> boolean()

Types:

```
This = wxFindReplaceDialog()
Parent = wxWindow:wxWindow()
Data = wxFindReplaceData:wxFindReplaceData()
Title = unicode:chardata()
Option = {style, integer()}
```

See [external documentation](#).

getData(This) -> wxFindReplaceData:wxFindReplaceData()

Types:

```
This = wxFindReplaceDialog()
```

See [external documentation](#).

destroy(This::wxFindReplaceDialog()) -> ok

Destroys this object, do not use object again

wxFlexGridSizer

Erlang module

See external documentation: **wxFlexGridSizer**.

This class is derived (and can use functions) from:

wxGridSizer

wxSizer

DATA TYPES

wxFlexGridSizer()

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

new(Cols) -> wxFlexGridSizer()

Types:

Cols = integer()

Equivalent to *new(Cols, [])*.

new(Cols, Options:[Option]) -> wxFlexGridSizer()

Types:

Cols = integer()

Option = {vgap, integer()} | {hgap, integer()}

See **external documentation**.

new(Rows, Cols, Vgap, Hgap) -> wxFlexGridSizer()

Types:

Rows = integer()

Cols = integer()

Vgap = integer()

Hgap = integer()

See **external documentation**.

addGrowableCol(This, Idx) -> ok

Types:

This = wxFlexGridSizer()

Idx = integer()

Equivalent to *addGrowableCol(This, Idx, [])*.

addGrowableCol(This, Idx, Options:[Option]) -> ok

Types:

```
This = wxFlexGridSizer()
Idx = integer()
Option = {proportion, integer()}
```

See [external documentation](#).

addGrowableRow(This, Idx) -> ok

Types:

```
This = wxFlexGridSizer()
Idx = integer()
```

Equivalent to *addGrowableRow(This, Idx, [])*.

addGrowableRow(This, Idx, Options::[Option]) -> ok

Types:

```
This = wxFlexGridSizer()
Idx = integer()
Option = {proportion, integer()}
```

See [external documentation](#).

getFlexibleDirection(This) -> integer()

Types:

```
This = wxFlexGridSizer()
```

See [external documentation](#).

getNonFlexibleGrowMode(This) -> wx:wx_enum()

Types:

```
This = wxFlexGridSizer()
```

See [external documentation](#).

Res = ?wxFLEX_GROWMODE_NONE | ?wxFLEX_GROWMODE_SPECIFIED | ?wxFLEX_GROWMODE_ALL

removeGrowableCol(This, Idx) -> ok

Types:

```
This = wxFlexGridSizer()
Idx = integer()
```

See [external documentation](#).

removeGrowableRow(This, Idx) -> ok

Types:

```
This = wxFlexGridSizer()
Idx = integer()
```

See [external documentation](#).

setFlexibleDirection(This, Direction) -> ok

Types:

wxFlexGridSizer

```
This = wxFlexGridSizer()
Direction = integer()
```

See [external documentation](#).

setNonFlexibleGrowMode(This, Mode) -> ok

Types:

```
This = wxFlexGridSizer()
Mode = wx:wx_enum()
```

See [external documentation](#).

Mode = ?wxFLEX_GROWMODE_NONE | ?wxFLEX_GROWMODE_SPECIFIED | ?wxFLEX_GROWMODE_ALL

destroy(This::wxFlexGridSizer()) -> ok

Destroys this object, do not use object again

wxFocusEvent

Erlang module

See external documentation: **wxFocusEvent**.

Use *wxEvtHandler:connect/3* with EventType:

set_focus, kill_focus

See also the message variant `#wxFocus{}` event record type.

This class is derived (and can use functions) from:

wxEvent

DATA TYPES

`wxFocusEvent()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`getWindow(This) -> wxWindow:wxWindow()`

Types:

`This = wxFocusEvent()`

See **external documentation**.

wxFont

Erlang module

See external documentation: **wxFont**.

DATA TYPES

wxFont()

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxFont()`

See **external documentation**.

`new(Fontname) -> wxFont()`

Types:

`Fontname = unicode:chardata()`

See **external documentation**.

`new(Size, Family, Style, Weight) -> wxFont()`

Types:

```
Size = integer()
Family = wx:wx_enum()
Style = wx:wx_enum()
Weight = integer()
```

Equivalent to `new(Size, Family, Style, Weight, [])`.

`new(Size, Family, Style, Weight, Options::[Option]) -> wxFont()`

Types:

```
Size = integer()
Family = wx:wx_enum()
Style = wx:wx_enum()
Weight = integer()
Option = {underlined, boolean()} | {face, unicode:chardata()} | {encoding,
wx:wx_enum()}
```

See **external documentation**.

Encoding = ?wxFONTENCODING_SYSTEM | ?wxFONTENCODING_DEFAULT | ?
wxFONTENCODING_ISO8859_1 | ?wxFONTENCODING_ISO8859_2 | ?wxFONTENCODING_ISO8859_3 | ?
wxFONTENCODING_ISO8859_4 | ?wxFONTENCODING_ISO8859_5 | ?wxFONTENCODING_ISO8859_6 | ?
wxFONTENCODING_ISO8859_7 | ?wxFONTENCODING_ISO8859_8 | ?wxFONTENCODING_ISO8859_9 | ?
wxFONTENCODING_ISO8859_10 | ?wxFONTENCODING_ISO8859_11 | ?wxFONTENCODING_ISO8859_12
| ?wxFONTENCODING_ISO8859_13 | ?wxFONTENCODING_ISO8859_14 | ?wxFONTENCODING_ISO8859_15

```

| ?wxFONTENCODING_ISO8859_MAX | ?wxFONTENCODING_KOI8 | ?wxFONTENCODING_KOI8_U
| ?wxFONTENCODING_ALTERNATIVE | ?wxFONTENCODING_BULGARIAN | ?
wxFONTENCODING_CP437 | ?wxFONTENCODING_CP850 | ?wxFONTENCODING_CP852 | ?
wxFONTENCODING_CP855 | ?wxFONTENCODING_CP866 | ?wxFONTENCODING_CP874 | ?
wxFONTENCODING_CP932 | ?wxFONTENCODING_CP936 | ?wxFONTENCODING_CP949 | ?
wxFONTENCODING_CP950 | ?wxFONTENCODING_CP1250 | ?wxFONTENCODING_CP1251 | ?
wxFONTENCODING_CP1252 | ?wxFONTENCODING_CP1253 | ?wxFONTENCODING_CP1254 | ?
wxFONTENCODING_CP1255 | ?wxFONTENCODING_CP1256 | ?wxFONTENCODING_CP1257 | ?
wxFONTENCODING_CP12_MAX | ?wxFONTENCODING_UTF7 | ?wxFONTENCODING_UTF8 | ?
wxFONTENCODING_EUC_JP | ?wxFONTENCODING_UTF16BE | ?wxFONTENCODING_UTF16LE | ?
wxFONTENCODING_UTF32BE | ?wxFONTENCODING_UTF32LE | ?wxFONTENCODING_MACROMAN
| ?wxFONTENCODING_MACJAPANESE | ?wxFONTENCODING_MACCHINESETRAD | ?
wxFONTENCODING_MACKOREAN | ?wxFONTENCODING_MACARABIC | ?
wxFONTENCODING_MACBREW | ?wxFONTENCODING_MACGREEK | ?
wxFONTENCODING_MACCYRILLIC | ?wxFONTENCODING_MACDEVANAGARI | ?
wxFONTENCODING_MACGURMUKHI | ?wxFONTENCODING_MACGUJARATI | ?
wxFONTENCODING_MACORIYA | ?wxFONTENCODING_MACBENGALI | ?
wxFONTENCODING_MACTAMIL | ?wxFONTENCODING_MACTELUGU | ?
wxFONTENCODING_MACKANNADA | ?wxFONTENCODING_MACMALAJALAM | ?
wxFONTENCODING_MACSINHALESE | ?wxFONTENCODING_MACBURMESE | ?
wxFONTENCODING_MACKHMER | ?wxFONTENCODING_MACTHAI | ?
wxFONTENCODING_MACLAOTIAN | ?wxFONTENCODING_MACGEORGIAN | ?
wxFONTENCODING_MACARMENIAN | ?wxFONTENCODING_MACCHINESIMP | ?
wxFONTENCODING_MACTIBETAN | ?wxFONTENCODING_MACMONGOLIAN | ?
wxFONTENCODING_MACETHIOPIC | ?wxFONTENCODING_MACCENTRALEUR | ?
wxFONTENCODING_MACVIATNAMESE | ?wxFONTENCODING_MACARABICEXT | ?
wxFONTENCODING_MACSYMBOL | ?wxFONTENCODING_MACDINGBATS | ?
wxFONTENCODING_MACTURKISH | ?wxFONTENCODING_MACCROATIAN | ?
wxFONTENCODING_MACICELANDIC | ?wxFONTENCODING_MACROMANIAN | ?
wxFONTENCODING_MACCELTIC | ?wxFONTENCODING_MACGAELIC | ?
wxFONTENCODING_MACKEYBOARD | ?wxFONTENCODING_MAX | ?wxFONTENCODING_MACMIN | ?
| ?wxFONTENCODING_MACMAX | ?wxFONTENCODING_UTF16 | ?wxFONTENCODING_UTF32 | ?
wxFONTENCODING_UNICODE | ?wxFONTENCODING_GB2312 | ?wxFONTENCODING_BIG5 | ?
wxFONTENCODING_SHIFT_JIS
Family = ?wxFONTFAMILY_DEFAULT | ?wxFONTFAMILY_DECORATIVE | ?wxFONTFAMILY_ROMAN
| ?wxFONTFAMILY_SCRIPT | ?wxFONTFAMILY_SWISS | ?wxFONTFAMILY_MODERN | ?
wxFONTFAMILY_TELETYPE | ?wxFONTFAMILY_MAX | ?wxFONTFAMILY_UNKNOWN
Style = ?wxFONTSTYLE_NORMAL | ?wxFONTSTYLE_ITALIC | ?wxFONTSTYLE_SLANT | ?
wxFONTSTYLE_MAX

```

`isFixedWidth(This) -> boolean()`

Types:

`This = wxFont()`

See [external documentation](#).

`getDefaultEncoding() -> wx:wx_enum()`

See [external documentation](#).

```

Res = ?wxFONTENCODING_SYSTEM | ?wxFONTENCODING_DEFAULT | ?
wxFONTENCODING_ISO8859_1 | ?wxFONTENCODING_ISO8859_2 | ?wxFONTENCODING_ISO8859_3 | ?
wxFONTENCODING_ISO8859_4 | ?wxFONTENCODING_ISO8859_5 | ?wxFONTENCODING_ISO8859_6 | ?

```

wxFont

```
wxFONTENCODING_ISO8859_7 | ?wxFONTENCODING_ISO8859_8 | ?wxFONTENCODING_ISO8859_9 | ?
wxFONTENCODING_ISO8859_10 | ?wxFONTENCODING_ISO8859_11 | ?wxFONTENCODING_ISO8859_12
| ?wxFONTENCODING_ISO8859_13 | ?wxFONTENCODING_ISO8859_14 | ?wxFONTENCODING_ISO8859_15
| ?wxFONTENCODING_ISO8859_MAX | ?wxFONTENCODING_KOI8 | ?wxFONTENCODING_KOI8_U
| ?wxFONTENCODING_ALTERNATIVE | ?wxFONTENCODING_BULGARIAN | ?
wxFONTENCODING_CP437 | ?wxFONTENCODING_CP850 | ?wxFONTENCODING_CP852 | ?
wxFONTENCODING_CP855 | ?wxFONTENCODING_CP866 | ?wxFONTENCODING_CP874 | ?
wxFONTENCODING_CP932 | ?wxFONTENCODING_CP936 | ?wxFONTENCODING_CP949 | ?
wxFONTENCODING_CP950 | ?wxFONTENCODING_CP1250 | ?wxFONTENCODING_CP1251 | ?
wxFONTENCODING_CP1252 | ?wxFONTENCODING_CP1253 | ?wxFONTENCODING_CP1254 | ?
wxFONTENCODING_CP1255 | ?wxFONTENCODING_CP1256 | ?wxFONTENCODING_CP1257 | ?
wxFONTENCODING_CP12_MAX | ?wxFONTENCODING_UTF7 | ?wxFONTENCODING_UTF8 | ?
wxFONTENCODING_EUC_JP | ?wxFONTENCODING_UTF16BE | ?wxFONTENCODING_UTF16LE | ?
wxFONTENCODING_UTF32BE | ?wxFONTENCODING_UTF32LE | ?wxFONTENCODING_MACROMAN
| ?wxFONTENCODING_MACJAPANESE | ?wxFONTENCODING_MACCHINESETRAD | ?
wxFONTENCODING_MACKOREAN | ?wxFONTENCODING_MACARABIC | ?
wxFONTENCODING_MACHEBREW | ?wxFONTENCODING_MACGREEK | ?
wxFONTENCODING_MACCYRILLIC | ?wxFONTENCODING_MACDEVANAGARI | ?
wxFONTENCODING_MACGURMUKHI | ?wxFONTENCODING_MACGUJARATI | ?
wxFONTENCODING_MACORIYA | ?wxFONTENCODING_MACBENGALI | ?
wxFONTENCODING_MACTAMIL | ?wxFONTENCODING_MACTELUGU | ?
wxFONTENCODING_MACKANNADA | ?wxFONTENCODING_MACMALAJALAM | ?
wxFONTENCODING_MACSINHALESE | ?wxFONTENCODING_MACBURMESE | ?
wxFONTENCODING_MACKHMER | ?wxFONTENCODING_MACTHAI | ?
wxFONTENCODING_MACLAOTIAN | ?wxFONTENCODING_MACGEORGIAN | ?
wxFONTENCODING_MACARMENIAN | ?wxFONTENCODING_MACCHINESESIMP | ?
wxFONTENCODING_MACTIBETAN | ?wxFONTENCODING_MACMONGOLIAN | ?
wxFONTENCODING_MACETHIOPIC | ?wxFONTENCODING_MACCENTRAEUR | ?
wxFONTENCODING_MACVIATNAMESE | ?wxFONTENCODING_MACARABICEXT | ?
wxFONTENCODING_MACSYMBOL | ?wxFONTENCODING_MACDINGBATS | ?
wxFONTENCODING_MACTURKISH | ?wxFONTENCODING_MACCROATIAN | ?
wxFONTENCODING_MACICELANDIC | ?wxFONTENCODING_MACROMANIAN | ?
wxFONTENCODING_MACCELTIC | ?wxFONTENCODING_MACGAELIC | ?
wxFONTENCODING_MACKEYBOARD | ?wxFONTENCODING_MAX | ?wxFONTENCODING_MACMIN
| ?wxFONTENCODING_MACMAX | ?wxFONTENCODING_UTF16 | ?wxFONTENCODING_UTF32 | ?
wxFONTENCODING_UNICODE | ?wxFONTENCODING_GB2312 | ?wxFONTENCODING_BIG5 | ?
wxFONTENCODING_SHIFT_JIS
```

`getFaceName(This) -> unicode:charlist()`

Types:

```
This = wxFont()
```

See [external documentation](#).

`getFamily(This) -> wx:wx_enum()`

Types:

```
This = wxFont()
```

See [external documentation](#).

```
Res = ?wxFONTFAMILY_DEFAULT | ?wxFONTFAMILY_DECORATIVE | ?wxFONTFAMILY_ROMAN
| ?wxFONTFAMILY_SCRIPT | ?wxFONTFAMILY_SWISS | ?wxFONTFAMILY_MODERN | ?
wxFONTFAMILY_TELETYPING | ?wxFONTFAMILY_MAX | ?wxFONTFAMILY_UNKNOWN
```

```
getNativeFontInfoDesc(This) -> unicode:charlist()
```

Types:

This = wxFont()

See **external documentation**.

```
getNativeFontInfoUserDesc(This) -> unicode:charlist()
```

Types:

This = wxFont()

See **external documentation**.

```
getPointSize(This) -> integer()
```

Types:

This = wxFont()

See **external documentation**.

```
getStyle(This) -> wx:wx_enum()
```

Types:

This = wxFont()

See **external documentation**.

Res = ?wxFONTSTYLE_NORMAL | ?wxFONTSTYLE_ITALIC | ?wxFONTSTYLE_SLANT | ?
wxFONTSTYLE_MAX

```
getUnderlined(This) -> boolean()
```

Types:

This = wxFont()

See **external documentation**.

```
getWeight(This) -> integer()
```

Types:

This = wxFont()

See **external documentation**.

```
ok(This) -> boolean()
```

Types:

This = wxFont()

See **external documentation**.

```
setDefaultEncoding(Encoding) -> ok
```

Types:

Encoding = wx:wx_enum()

See **external documentation**.

Encoding = ?wxFONTENCODING_SYSTEM | ?wxFONTENCODING_DEFAULT | ?
wxFONTENCODING_ISO8859_1 | ?wxFONTENCODING_ISO8859_2 | ?wxFONTENCODING_ISO8859_3 | ?
wxFONTENCODING_ISO8859_4 | ?wxFONTENCODING_ISO8859_5 | ?wxFONTENCODING_ISO8859_6 | ?

wxFont

```
wxFONTENCODING_ISO8859_7 | ?wxFONTENCODING_ISO8859_8 | ?wxFONTENCODING_ISO8859_9 | ?
wxFONTENCODING_ISO8859_10 | ?wxFONTENCODING_ISO8859_11 | ?wxFONTENCODING_ISO8859_12
| ?wxFONTENCODING_ISO8859_13 | ?wxFONTENCODING_ISO8859_14 | ?wxFONTENCODING_ISO8859_15
| ?wxFONTENCODING_ISO8859_MAX | ?wxFONTENCODING_KOI8 | ?wxFONTENCODING_KOI8_U
| ?wxFONTENCODING_ALTERNATIVE | ?wxFONTENCODING_BULGARIAN | ?
wxFONTENCODING_CP437 | ?wxFONTENCODING_CP850 | ?wxFONTENCODING_CP852 | ?
wxFONTENCODING_CP855 | ?wxFONTENCODING_CP866 | ?wxFONTENCODING_CP874 | ?
wxFONTENCODING_CP932 | ?wxFONTENCODING_CP936 | ?wxFONTENCODING_CP949 | ?
wxFONTENCODING_CP950 | ?wxFONTENCODING_CP1250 | ?wxFONTENCODING_CP1251 | ?
wxFONTENCODING_CP1252 | ?wxFONTENCODING_CP1253 | ?wxFONTENCODING_CP1254 | ?
wxFONTENCODING_CP1255 | ?wxFONTENCODING_CP1256 | ?wxFONTENCODING_CP1257 | ?
wxFONTENCODING_CP12_MAX | ?wxFONTENCODING_UTF7 | ?wxFONTENCODING_UTF8 | ?
wxFONTENCODING_EUC_JP | ?wxFONTENCODING_UTF16BE | ?wxFONTENCODING_UTF16LE | ?
wxFONTENCODING_UTF32BE | ?wxFONTENCODING_UTF32LE | ?wxFONTENCODING_MACROMAN
| ?wxFONTENCODING_MACJAPANESE | ?wxFONTENCODING_MACCHINESETRAD | ?
wxFONTENCODING_MACKOREAN | ?wxFONTENCODING_MACARABIC | ?
wxFONTENCODING_MACHEBREW | ?wxFONTENCODING_MACGREEK | ?
wxFONTENCODING_MACCYRILLIC | ?wxFONTENCODING_MACDEVANAGARI | ?
wxFONTENCODING_MACGURMUKHI | ?wxFONTENCODING_MACGUJARATI | ?
wxFONTENCODING_MACORIYA | ?wxFONTENCODING_MACBENGALI | ?
wxFONTENCODING_MACTAMIL | ?wxFONTENCODING_MACTELUGU | ?
wxFONTENCODING_MACKANNADA | ?wxFONTENCODING_MACMALAJALAM | ?
wxFONTENCODING_MACSINHALESE | ?wxFONTENCODING_MACBURMESE | ?
wxFONTENCODING_MACKHMER | ?wxFONTENCODING_MACTHAI | ?
wxFONTENCODING_MACLAOTIAN | ?wxFONTENCODING_MACGEORGIAN | ?
wxFONTENCODING_MACARMENIAN | ?wxFONTENCODING_MACCHINESESIMP | ?
wxFONTENCODING_MACTIBETAN | ?wxFONTENCODING_MACMONGOLIAN | ?
wxFONTENCODING_MACETHIOPIC | ?wxFONTENCODING_MACCENTRAEUR | ?
wxFONTENCODING_MACVIATNAMESE | ?wxFONTENCODING_MACARABICEXT | ?
wxFONTENCODING_MACSYMBOL | ?wxFONTENCODING_MACDINGBATS | ?
wxFONTENCODING_MACTURKISH | ?wxFONTENCODING_MACCROATIAN | ?
wxFONTENCODING_MACICELANDIC | ?wxFONTENCODING_MACROMANIAN | ?
wxFONTENCODING_MACCELTIC | ?wxFONTENCODING_MACGAELIC | ?
wxFONTENCODING_MACKEYBOARD | ?wxFONTENCODING_MAX | ?wxFONTENCODING_MACMIN
| ?wxFONTENCODING_MACMAX | ?wxFONTENCODING_UTF16 | ?wxFONTENCODING_UTF32 | ?
wxFONTENCODING_UNICODE | ?wxFONTENCODING_GB2312 | ?wxFONTENCODING_BIG5 | ?
wxFONTENCODING_SHIFT_JIS
```

`setFaceName(This, FaceName) -> boolean()`

Types:

```
This = wxFont()
FaceName = unicode:chardata()
```

See [external documentation](#).

`setFamily(This, Family) -> ok`

Types:

```
This = wxFont()
Family = wx:wx_enum()
```

See [external documentation](#).

Family = ?wxFONTFAMILY_DEFAULT | ?wxFONTFAMILY_DECORATIVE | ?wxFONTFAMILY_ROMAN
| ?wxFONTFAMILY_SCRIPT | ?wxFONTFAMILY_SWISS | ?wxFONTFAMILY_MODERN | ?
wxFONTFAMILY_TELETYPE | ?wxFONTFAMILY_MAX | ?wxFONTFAMILY_UNKNOWN

setPointSize(This, PointSize) -> ok

Types:

```
This = wxFont()  
PointSize = integer()
```

See [external documentation](#).

setStyle(This, Style) -> ok

Types:

```
This = wxFont()  
Style = wx:wx_enum()
```

See [external documentation](#).

Style = ?wxFONTSTYLE_NORMAL | ?wxFONTSTYLE_ITALIC | ?wxFONTSTYLE_SLANT | ?
wxFONTSTYLE_MAX

setUnderlined(This, Underlined) -> ok

Types:

```
This = wxFont()  
Underlined = boolean()
```

See [external documentation](#).

setWeight(This, Weight) -> ok

Types:

```
This = wxFont()  
Weight = integer()
```

See [external documentation](#).

destroy(This::wxFont()) -> ok

Destroys this object, do not use object again

wxFontData

Erlang module

See external documentation: **wxFontData**.

DATA TYPES

wxFontData()

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

new() -> wxFontData()

See **external documentation**.

new(Data) -> wxFontData()

Types:

Data = wxFontData()

See **external documentation**.

enableEffects(This, Flag) -> ok

Types:

This = wxFontData()

Flag = boolean()

See **external documentation**.

getAllowSymbols(This) -> boolean()

Types:

This = wxFontData()

See **external documentation**.

getColour(This) -> wx:wx_colour4()

Types:

This = wxFontData()

See **external documentation**.

getChosenFont(This) -> wxFont:wxFont()

Types:

This = wxFontData()

See **external documentation**.

getEnableEffects(This) -> boolean()

Types:

This = *wxFontData()*

See **external documentation**.

getInitialFont(This) -> *wxFONT:wxFONT()*

Types:

This = *wxFontData()*

See **external documentation**.

getShowHelp(This) -> boolean()

Types:

This = *wxFontData()*

See **external documentation**.

setAllowSymbols(This, Flag) -> ok

Types:

This = *wxFontData()*

Flag = boolean()

See **external documentation**.

setChosenFont(This, Font) -> ok

Types:

This = *wxFontData()*

Font = *wxFONT:wxFONT()*

See **external documentation**.

setColour(This, Colour) -> ok

Types:

This = *wxFontData()*

Colour = *wx:wx_colour()*

See **external documentation**.

setInitialFont(This, Font) -> ok

Types:

This = *wxFontData()*

Font = *wxFONT:wxFONT()*

See **external documentation**.

setRange(This, MinRange, MaxRange) -> ok

Types:

This = *wxFontData()*

MinRange = integer()

wxFontData

MaxRange = integer()

See [external documentation](#).

setShowHelp(This, Flag) -> ok

Types:

This = wxFontData()

Flag = boolean()

See [external documentation](#).

destroy(This::wxFontData()) -> ok

Destroys this object, do not use object again

wxFontDialog

Erlang module

See external documentation: **wxFontDialog**.

This class is derived (and can use functions) from:

wxDialog
wxTopLevelWindow
wxWindow
wxEvtHandler

DATA TYPES

`wxFontDialog()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxFontDialog()`

See **external documentation**.

`new(Parent, Data) -> wxFontDialog()`

Types:

```
Parent = wxWindow:wxWindow()  
Data = wxFontData:wxFontData()
```

See **external documentation**.

`create(This, Parent, Data) -> boolean()`

Types:

```
This = wxFontDialog()  
Parent = wxWindow:wxWindow()  
Data = wxFontData:wxFontData()
```

See **external documentation**.

`getFontData(This) -> wxFontData:wxFontData()`

Types:

```
This = wxFontDialog()
```

See **external documentation**.

`destroy(This::wxFontDialog()) -> ok`

Destroys this object, do not use object again

wxFontPickerCtrl

Erlang module

See external documentation: **wxFontPickerCtrl**.

This class is derived (and can use functions) from:

wxPickerBase
wxControl
wxWindow
wxEvtHandler

DATA TYPES

`wxFontPickerCtrl()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxFontPickerCtrl()`

See **external documentation**.

`new(Parent, Id) -> wxFontPickerCtrl()`

Types:

```
Parent = wxWindow:wxWindow()  
Id = integer()
```

Equivalent to `new(Parent, Id, [])`.

`new(Parent, Id, Options::[Option]) -> wxFontPickerCtrl()`

Types:

```
Parent = wxWindow:wxWindow()  
Id = integer()  
Option = {initial, wxFont:wxFont()} | {pos, {X::integer(), Y::integer()}}  
| {size, {W::integer(), H::integer()}} | {style, integer()} | {validator,  
wx:wx_object()}
```

See **external documentation**.

`create(This, Parent, Id) -> boolean()`

Types:

```
This = wxFontPickerCtrl()  
Parent = wxWindow:wxWindow()  
Id = integer()
```

Equivalent to `create(This, Parent, Id, [])`.

create(This, Parent, Id, Options:[Option]) -> boolean()

Types:

```
This = wxFontPickerCtrl()
Parent = wxWindow:wxWindow()
Id = integer()
Option = {initial, wxFont:wxFont()} | {pos, {X::integer(), Y::integer()}}
| {size, {W::integer(), H::integer()}} | {style, integer()} | {validator,
wx:wx_object()}
```

See [external documentation](#).

getSelectedFont(This) -> wxFont:wxFont()

Types:

```
This = wxFontPickerCtrl()
```

See [external documentation](#).

setSelectedFont(This, F) -> ok

Types:

```
This = wxFontPickerCtrl()
F = wxFont:wxFont()
```

See [external documentation](#).

getMaxPointSize(This) -> integer()

Types:

```
This = wxFontPickerCtrl()
```

See [external documentation](#).

setMaxPointSize(This, Max) -> ok

Types:

```
This = wxFontPickerCtrl()
Max = integer()
```

See [external documentation](#).

destroy(This::wxFontPickerCtrl()) -> ok

Destroys this object, do not use object again

wxFontPickerEvent

Erlang module

See external documentation: **wxFontPickerEvent**.

Use *wxEvtHandler:connect/3* with EventType:

command_fontpicker_changed

See also the message variant `#wxFontPicker{}` event record type.

This class is derived (and can use functions) from:

wxCommandEvent

wxEvent

DATA TYPES

`wxFontPickerEvent()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`getFont(This) -> wxFont:wxFont()`

Types:

`This = wxFontPickerEvent()`

See **external documentation**.

wxFrame

Erlang module

See external documentation: **wxFrame**.

This class is derived (and can use functions) from:

wxTopLevelWindow

wxWindow

wxEvtHandler

DATA TYPES

`wxFrame()`

An object reference. The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxFrame()`

See **external documentation**.

`new(Parent, Id, Title) -> wxFrame()`

Types:

```
Parent = wxWindow:wxWindow()
Id = integer()
Title = unicode:chardata()
```

Equivalent to `new(Parent, Id, Title, [])`.

`new(Parent, Id, Title, Options:[Option]) -> wxFrame()`

Types:

```
Parent = wxWindow:wxWindow()
Id = integer()
Title = unicode:chardata()
Option = {pos, {X::integer(), Y::integer()}} | {size, {W::integer(),
H::integer()}} | {style, integer()}
```

See **external documentation**.

`create(This, Parent, Id, Title) -> boolean()`

Types:

```
This = wxFrame()
Parent = wxWindow:wxWindow()
Id = integer()
Title = unicode:chardata()
```

Equivalent to `create(This, Parent, Id, Title, [])`.

wxFrame

create(This, Parent, Id, Title, Options:[Option]) -> boolean()
Types:

```
This = wxFrame()
Parent = wxWindow:wxWindow()
Id = integer()
Title = unicode:chardata()
Option = {pos, {X::integer(), Y::integer()}} | {size, {W::integer(),
H::integer()}} | {style, integer()}
```

See [external documentation](#).

createStatusBar(This) -> wxStatusBar:wxStatusBar()
Types:

```
This = wxFrame()
```

Equivalent to *createStatusBar(This, [])*.

createStatusBar(This, Options:[Option]) -> wxStatusBar:wxStatusBar()
Types:

```
This = wxFrame()
Option = {number, integer()} | {style, integer()} | {id, integer()}
```

See [external documentation](#).

createToolBar(This) -> wxToolBar:wxToolBar()
Types:

```
This = wxFrame()
```

Equivalent to *createToolBar(This, [])*.

createToolBar(This, Options:[Option]) -> wxToolBar:wxToolBar()
Types:

```
This = wxFrame()
Option = {style, integer()} | {id, integer()}
```

See [external documentation](#).

getClientAreaOrigin(This) -> {X::integer(), Y::integer()}
Types:

```
This = wxFrame()
```

See [external documentation](#).

getMenuBar(This) -> wxMenuBar:wxMenuBar()
Types:

```
This = wxFrame()
```

See [external documentation](#).

getStatusBar(This) -> wxStatusBar:wxStatusBar()

Types:

This = wxFrame()

See **external documentation**.

getStatusBarPane(This) -> integer()

Types:

This = wxFrame()

See **external documentation**.

getToolBar(This) -> wxToolBar:wxToolBar()

Types:

This = wxFrame()

See **external documentation**.

processCommand(This, Winid) -> boolean()

Types:

This = wxFrame()

Winid = integer()

See **external documentation**.

sendSizeEvent(This) -> ok

Types:

This = wxFrame()

See **external documentation**.

setMenuBar(This, Menubar) -> ok

Types:

This = wxFrame()

Menubar = wxMenuBar:wxMenuBar()

See **external documentation**.

setStatusBar(This, Statbar) -> ok

Types:

This = wxFrame()

Statbar = wxStatusBar:wxStatusBar()

See **external documentation**.

setStatusBarPane(This, N) -> ok

Types:

This = wxFrame()

N = integer()

See **external documentation**.

wxFrame

`setStatusText(This, Text) -> ok`

Types:

```
This = wxFrame()
Text = unicode:chardata()
```

Equivalent to `setStatusText(This, Text, []).`

`setStatusText(This, Text, Options::[Option]) -> ok`

Types:

```
This = wxFrame()
Text = unicode:chardata()
Option = {number, integer()}
```

See [external documentation](#).

`setStatusWidths(This, Widths_field) -> ok`

Types:

```
This = wxFrame()
Widths_field = [integer()]
```

See [external documentation](#).

`setToolBar(This, Toolbar) -> ok`

Types:

```
This = wxFrame()
Toolbar = wxToolBar:wxToolBar()
```

See [external documentation](#).

`destroy(This::wxFrame()) -> ok`

Destroys this object, do not use object again

wxGBSizerItem

Erlang module

See external documentation: **wxGBSizerItem**.

This class is derived (and can use functions) from:
wxSizerItem

DATA TYPES

wxGBSizerItem()

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

wxGLCanvas

Erlang module

See external documentation: **wxGLCanvas**.

This class is derived (and can use functions) from:

wxWindow

wxEvtHandler

DATA TYPES

wxGLCanvas()

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

new(Parent) -> wxGLCanvas()

Types:

Parent = wxWindow:wxWindow()

Equivalent to *new(Parent, [])*.

new(Parent, Shared) -> wxGLCanvas()

Types:

Parent = wxWindow:wxWindow()

Shared = wx:wx_object() | wxGLCanvas()

See **external documentation**.

Also:

new(Parent, [Option]) -> wxGLCanvas() when
Parent::wxWindow:wxWindow(),
Option :: {'id', integer()}
| {'pos', {X::integer(), Y::integer()}}
| {'size', {W::integer(), H::integer()}}
| {'style', integer()}
| {'name', unicode:chardata()}
| {'attribList', [integer()]}
| {'palette', wxPalette:wxPalette()}.

new(Parent, Shared, Options::[Option]) -> wxGLCanvas()

Types:

Parent = wxWindow:wxWindow()

Shared = wx:wx_object() | wxGLCanvas()

Option = {id, integer()} | {pos, {X::integer(), Y::integer()}}
| {size, {W::integer(), H::integer()}} | {style, integer()} |
{name, unicode:chardata()} | {attribList, [integer()]} | {palette,
wxPalette:wxPalette()}

See **external documentation**.

`getContext(This) -> wx:wx_object()`

Types:

`This = wxGLCanvas()`

See **external documentation**.

`setCurrent(This) -> ok`

Types:

`This = wxGLCanvas()`

See **external documentation**.

`swapBuffers(This) -> ok`

Types:

`This = wxGLCanvas()`

See **external documentation**.

`destroy(This::wxGLCanvas()) -> ok`

Destroys this object, do not use object again

wxGauge

Erlang module

See external documentation: **wxGauge**.

This class is derived (and can use functions) from:

wxControl

wxWindow

wxEvtHandler

DATA TYPES

`wxGauge()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxGauge()`

See **external documentation**.

`new(Parent, Id, Range) -> wxGauge()`

Types:

```
Parent = wxWindow:wxWindow()
Id = integer()
Range = integer()
```

Equivalent to `new(Parent, Id, Range, [])`.

`new(Parent, Id, Range, Options:[Option]) -> wxGauge()`

Types:

```
Parent = wxWindow:wxWindow()
Id = integer()
Range = integer()
Option = {pos, {X::integer(), Y::integer()}} | {size, {W::integer(),
H::integer()}} | {style, integer()} | {validator, wx:wx_object()}
```

See **external documentation**.

`create(This, Parent, Id, Range) -> boolean()`

Types:

```
This = wxGauge()
Parent = wxWindow:wxWindow()
Id = integer()
Range = integer()
```

Equivalent to `create(This, Parent, Id, Range, [])`.

create(This, Parent, Id, Range, Options:[Option]) -> boolean()

Types:

```
This = wxGauge()
Parent = wxWindow:wxWindow()
Id = integer()
Range = integer()
Option = {pos, {X::integer(), Y::integer()}} | {size, {W::integer(),
H::integer()}} | {style, integer()} | {validator, wx:wx_object()}
```

See **external documentation**.

getRange(This) -> integer()

Types:

```
This = wxGauge()
```

See **external documentation**.

getValue(This) -> integer()

Types:

```
This = wxGauge()
```

See **external documentation**.

isVertical(This) -> boolean()

Types:

```
This = wxGauge()
```

See **external documentation**.

setRange(This, R) -> ok

Types:

```
This = wxGauge()
```

```
R = integer()
```

See **external documentation**.

setValue(This, Pos) -> ok

Types:

```
This = wxGauge()
```

```
Pos = integer()
```

See **external documentation**.

pulse(This) -> ok

Types:

```
This = wxGauge()
```

See **external documentation**.

wxGauge

destroy(This::wxGauge()) -> ok

Destroys this object, do not use object again

wxGenericDirCtrl

Erlang module

See external documentation: **wxGenericDirCtrl**.

This class is derived (and can use functions) from:

wxControl

wxWindow

wxEvtHandler

DATA TYPES

`wxGenericDirCtrl()`

An object reference. The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxGenericDirCtrl()`

See **external documentation**.

`new(Parent) -> wxGenericDirCtrl()`

Types:

`Parent = wxWindow:wxWindow()`

Equivalent to `new(Parent, [])`.

`new(Parent, Options:[Option]) -> wxGenericDirCtrl()`

Types:

`Parent = wxWindow:wxWindow()`

`Option = {id, integer()} | {dir, unicode:chardata()} | {pos, {X::integer(), Y::integer()}} | {size, {W::integer(), H::integer()}} | {style, integer()} | {filter, unicode:chardata()} | {defaultFilter, integer()}`

See **external documentation**.

`create(This, Parent) -> boolean()`

Types:

`This = wxGenericDirCtrl()`

`Parent = wxWindow:wxWindow()`

Equivalent to `create(This, Parent, [])`.

`create(This, Parent, Options:[Option]) -> boolean()`

Types:

`This = wxGenericDirCtrl()`

`Parent = wxWindow:wxWindow()`

wxGenericDirCtrl

```
Option = {id, integer()} | {dir, unicode:chardata()} | {pos,
{X:::integer(), Y:::integer()} } | {size, {W:::integer(), H:::integer()} }
| {style, integer()} | {filter, unicode:chardata()} | {defaultFilter,
integer()}
```

See [external documentation](#).

`init(This) -> ok`

Types:

```
This = wxGenericDirCtrl()
```

See [external documentation](#).

`collapseTree(This) -> ok`

Types:

```
This = wxGenericDirCtrl()
```

See [external documentation](#).

`expandPath(This, Path) -> boolean()`

Types:

```
This = wxGenericDirCtrl()
```

```
Path = unicode:chardata()
```

See [external documentation](#).

`getDefaultPath(This) -> unicode:charlist()`

Types:

```
This = wxGenericDirCtrl()
```

See [external documentation](#).

`getPath(This) -> unicode:charlist()`

Types:

```
This = wxGenericDirCtrl()
```

See [external documentation](#).

`getFilePath(This) -> unicode:charlist()`

Types:

```
This = wxGenericDirCtrl()
```

See [external documentation](#).

`getFilter(This) -> unicode:charlist()`

Types:

```
This = wxGenericDirCtrl()
```

See [external documentation](#).

getFilterIndex(This) -> integer()

Types:

`This = wxGenericDirCtrl()`

See [external documentation](#).

getRootId(This) -> integer()

Types:

`This = wxGenericDirCtrl()`

See [external documentation](#).

getTreeCtrl(This) -> wxTreeCtrl:wxTreeCtrl()

Types:

`This = wxGenericDirCtrl()`

See [external documentation](#).

reCreateTree(This) -> ok

Types:

`This = wxGenericDirCtrl()`

See [external documentation](#).

setDefaultPath(This, Path) -> ok

Types:

`This = wxGenericDirCtrl()`

`Path = unicode:chardata()`

See [external documentation](#).

setFilter(This, Filter) -> ok

Types:

`This = wxGenericDirCtrl()`

`Filter = unicode:chardata()`

See [external documentation](#).

setFilterIndex(This, N) -> ok

Types:

`This = wxGenericDirCtrl()`

`N = integer()`

See [external documentation](#).

setPath(This, Path) -> ok

Types:

`This = wxGenericDirCtrl()`

`Path = unicode:chardata()`

See [external documentation](#).

wxGenericDirCtrl

destroy(This::wxGenericDirCtrl()) -> ok

Destroys this object, do not use object again

wxGraphicsBrush

Erlang module

See external documentation: **wxGraphicsBrush**.

This class is derived (and can use functions) from:
wxGraphicsObject

DATA TYPES

wxGraphicsBrush()

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

wxGraphicsContext

Erlang module

See external documentation: **wxGraphicsContext**.

This class is derived (and can use functions) from:
wxGraphicsObject

DATA TYPES

`wxGraphicsContext()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`create() -> wxGraphicsContext()`

See [external documentation](#).

`create(Dc) -> wxGraphicsContext()`

Types:

`Dc = wxWindowDC:wxWindowDC() | wxWindow:wxWindow()`

See [external documentation](#).

`createPen(This, Pen) -> wxGraphicsPen:wxGraphicsPen()`

Types:

`This = wxGraphicsContext()`

`Pen = wxPen:wxPen()`

See [external documentation](#).

`createBrush(This, Brush) -> wxGraphicsBrush:wxGraphicsBrush()`

Types:

`This = wxGraphicsContext()`

`Brush = wxBrush:wxBrush()`

See [external documentation](#).

`createRadialGradientBrush(This, Xo, Yo, Xc, Yc, Radius, OColor, CColor) -> wxGraphicsBrush:wxGraphicsBrush()`

Types:

`This = wxGraphicsContext()`

`Xo = number()`

`Yo = number()`

`Xc = number()`

`Yc = number()`

```
Radius = number()
OColor = wx:wx_colour()
CColor = wx:wx_colour()
```

See [external documentation](#).

```
createLinearGradientBrush(This, X1, Y1, X2, Y2, C1, C2) ->
wxGraphicsBrush:wxGraphicsBrush()
```

Types:

```
This = wxGraphicsContext()
X1 = number()
Y1 = number()
X2 = number()
Y2 = number()
C1 = wx:wx_colour()
C2 = wx:wx_colour()
```

See [external documentation](#).

```
createFont(This, Font) -> wxGraphicsFont:wxGraphicsFont()
```

Types:

```
This = wxGraphicsContext()
Font = wxFont:wxFont()
```

Equivalent to *createFont(This, Font, [])*.

```
createFont(This, Font, Options:[Option]) -> wxGraphicsFont:wxGraphicsFont()
```

Types:

```
This = wxGraphicsContext()
Font = wxFont:wxFont()
Option = {col, wx:wx_colour()}
```

See [external documentation](#).

```
createMatrix(This) -> wxGraphicsMatrix:wxGraphicsMatrix()
```

Types:

```
This = wxGraphicsContext()
```

Equivalent to *createMatrix(This, [])*.

```
createMatrix(This, Options:[Option]) -> wxGraphicsMatrix:wxGraphicsMatrix()
```

Types:

```
This = wxGraphicsContext()
Option = {a, number()} | {b, number()} | {c, number()} | {d, number()} |
{tx, number()} | {ty, number()}
```

See [external documentation](#).

wxGraphicsContext

`createPath(This) -> wxGraphicsPath:wxGraphicsPath()`

Types:

`This = wxGraphicsContext()`

See [external documentation](#).

`clip(This, Region) -> ok`

Types:

`This = wxGraphicsContext()`

`Region = wxRegion:wxRegion()`

See [external documentation](#).

`clip(This, X, Y, W, H) -> ok`

Types:

`This = wxGraphicsContext()`

`X = number()`

`Y = number()`

`W = number()`

`H = number()`

See [external documentation](#).

`resetClip(This) -> ok`

Types:

`This = wxGraphicsContext()`

See [external documentation](#).

`drawBitmap(This, Bmp, X, Y, W, H) -> ok`

Types:

`This = wxGraphicsContext()`

`Bmp = wxBitmap:wxBitmap()`

`X = number()`

`Y = number()`

`W = number()`

`H = number()`

See [external documentation](#).

`drawEllipse(This, X, Y, W, H) -> ok`

Types:

`This = wxGraphicsContext()`

`X = number()`

`Y = number()`

`W = number()`

`H = number()`

See [external documentation](#).

`drawIcon(This, Icon, X, Y, W, H) -> ok`

Types:

```
This = wxGraphicsContext()
Icon = wxIcon:wxIcon()
X = number()
Y = number()
W = number()
H = number()
```

See [external documentation](#).

`drawLines(This, Points) -> ok`

Types:

```
This = wxGraphicsContext()
Points = [{X::float(), Y::float()}]
```

Equivalent to `drawLines(This, Points, [])`.

`drawLines(This, Points, Options:[Option]) -> ok`

Types:

```
This = wxGraphicsContext()
Points = [{X::float(), Y::float()}]
Option = {fillStyle, wx:wx_enum()}
```

See [external documentation](#).

FillStyle = integer

`drawPath(This, Path) -> ok`

Types:

```
This = wxGraphicsContext()
Path = wxGraphicsPath:wxGraphicsPath()
```

Equivalent to `drawPath(This, Path, [])`.

`drawPath(This, Path, Options:[Option]) -> ok`

Types:

```
This = wxGraphicsContext()
Path = wxGraphicsPath:wxGraphicsPath()
Option = {fillStyle, wx:wx_enum()}
```

See [external documentation](#).

FillStyle = integer

`drawRectangle(This, X, Y, W, H) -> ok`

Types:

```
This = wxGraphicsContext()
X = number()
Y = number()
```

wxGraphicsContext

```
W = number()
H = number()
```

See [external documentation](#).

`drawRoundedRectangle(This, X, Y, W, H, Radius) -> ok`

Types:

```
This = wxGraphicsContext()
X = number()
Y = number()
W = number()
H = number()
Radius = number()
```

See [external documentation](#).

`drawText(This, Str, X, Y) -> ok`

Types:

```
This = wxGraphicsContext()
Str = unicode:chardata()
X = number()
Y = number()
```

See [external documentation](#).

`drawText(This, Str, X, Y, Angle) -> ok`

Types:

```
This = wxGraphicsContext()
Str = unicode:chardata()
X = number()
Y = number()
Angle = number()
```

See [external documentation](#).

Also:

`drawText(This, Str, X, Y, BackgroundBrush) -> 'ok' when`
This::wxGraphicsContext(), Str::unicode:chardata(), X::number(), Y::number(),
BackgroundBrush::wxGraphicsBrush:wxGraphicsBrush().

`drawText(This, Str, X, Y, Angle, BackgroundBrush) -> ok`

Types:

```
This = wxGraphicsContext()
Str = unicode:chardata()
X = number()
Y = number()
Angle = number()
BackgroundBrush = wxGraphicsBrush:wxGraphicsBrush()
```

See external documentation.

`fillPath(This, Path) -> ok`

Types:

```
This = wxGraphicsContext()
Path = wxGraphicsPath:wxGraphicsPath()
```

Equivalent to `fillPath(This, Path, [])`.

`fillPath(This, Path, Options::[Option]) -> ok`

Types:

```
This = wxGraphicsContext()
Path = wxGraphicsPath:wxGraphicsPath()
Option = {fillStyle, wx:wx_enum()}
```

See external documentation.

FillStyle = integer

`strokePath(This, Path) -> ok`

Types:

```
This = wxGraphicsContext()
Path = wxGraphicsPath:wxGraphicsPath()
```

See external documentation.

`getPartialTextExtents(This, Text) -> [number()]`

Types:

```
This = wxGraphicsContext()
Text = unicode:chardata()
```

See external documentation.

`getTextExtent(This, Text) -> Result`

Types:

```
Result = {Width::number(), Height::number(), Descent::number(),
ExternalLeading::number()}
This = wxGraphicsContext()
Text = unicode:chardata()
```

See external documentation.

`rotate(This, Angle) -> ok`

Types:

```
This = wxGraphicsContext()
Angle = number()
```

See external documentation.

wxGraphicsContext

scale(This, XScale, YScale) -> ok

Types:

```
This = wxGraphicsContext()
XScale = number()
YScale = number()
```

See [external documentation](#).

translate(This, Dx, Dy) -> ok

Types:

```
This = wxGraphicsContext()
Dx = number()
Dy = number()
```

See [external documentation](#).

getTransform(This) -> wxGraphicsMatrix:wxGraphicsMatrix()

Types:

```
This = wxGraphicsContext()
```

See [external documentation](#).

setTransform(This, Matrix) -> ok

Types:

```
This = wxGraphicsContext()
Matrix = wxGraphicsMatrix:wxGraphicsMatrix()
```

See [external documentation](#).

concatTransform(This, Matrix) -> ok

Types:

```
This = wxGraphicsContext()
Matrix = wxGraphicsMatrix:wxGraphicsMatrix()
```

See [external documentation](#).

setBrush(This, Brush) -> ok

Types:

```
This = wxGraphicsContext()
Brush = wxGraphicsBrush:wxGraphicsBrush() | wxBrush:wxBrush()
```

See [external documentation](#).

setFont(This, Font) -> ok

Types:

```
This = wxGraphicsContext()
Font = wxGraphicsFont:wxGraphicsFont()
```

See [external documentation](#).

setFont(This, Font, Colour) -> ok

Types:

```
This = wxGraphicsContext()
Font = wxFont:wxFont()
Colour = wx:wx_colour()
```

See [external documentation](#).

setPen(This, Pen) -> ok

Types:

```
This = wxGraphicsContext()
Pen = wxPen:wxPen() | wxGraphicsPen:wxGraphicsPen()
```

See [external documentation](#).

strokeLine(This, X1, Y1, X2, Y2) -> ok

Types:

```
This = wxGraphicsContext()
X1 = number()
Y1 = number()
X2 = number()
Y2 = number()
```

See [external documentation](#).

strokeLines(This, Points) -> ok

Types:

```
This = wxGraphicsContext()
Points = [{X::float(), Y::float()}]
```

See [external documentation](#).

destroy(This::wxGraphicsContext()) -> ok

Destroys this object, do not use object again

wxGraphicsFont

Erlang module

See external documentation: [wxGraphicsFont](#).

This class is derived (and can use functions) from:
wxGraphicsObject

DATA TYPES

`wxGraphicsFont()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

wxGraphicsMatrix

Erlang module

See external documentation: **wxGraphicsMatrix**.

This class is derived (and can use functions) from:
wxGraphicsObject

DATA TYPES

`wxGraphicsMatrix()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`concat(This, T) -> ok`

Types:

```
This = wxGraphicsMatrix()
T = wxGraphicsMatrix()
```

See external documentation.

`get(This) -> Result`

Types:

```
Result = {A::number(), B::number(), C::number(), D::number(),
          Tx::number(), Ty::number()}
This = wxGraphicsMatrix()
```

See external documentation.

`invert(This) -> ok`

Types:

```
This = wxGraphicsMatrix()
```

See external documentation.

`isEqual(This, T) -> boolean()`

Types:

```
This = wxGraphicsMatrix()
T = wxGraphicsMatrix()
```

See external documentation.

`isIdentity(This) -> boolean()`

Types:

```
This = wxGraphicsMatrix()
```

See external documentation.

wxGraphicsMatrix

`rotate(This, Angle) -> ok`

Types:

```
This = wxGraphicsMatrix()
Angle = number()
```

See [external documentation](#).

`scale(This, XScale, YScale) -> ok`

Types:

```
This = wxGraphicsMatrix()
XScale = number()
YScale = number()
```

See [external documentation](#).

`translate(This, Dx, Dy) -> ok`

Types:

```
This = wxGraphicsMatrix()
Dx = number()
Dy = number()
```

See [external documentation](#).

`set(This) -> ok`

Types:

```
This = wxGraphicsMatrix()
```

Equivalent to `set(This, [])`.

`set(This, Options:[Option]) -> ok`

Types:

```
This = wxGraphicsMatrix()
Option = {a, number()} | {b, number()} | {c, number()} | {d, number()} |
{tx, number()} | {ty, number()}
```

See [external documentation](#).

`transformPoint(This) -> {X::number(), Y::number()}`

Types:

```
This = wxGraphicsMatrix()
```

See [external documentation](#).

`transformDistance(This) -> {Dx::number(), Dy::number()}`

Types:

```
This = wxGraphicsMatrix()
```

See [external documentation](#).

wxGraphicsObject

Erlang module

See external documentation: **wxGraphicsObject**.

DATA TYPES

`wxGraphicsObject()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`getRenderer(This) -> wxGraphicsRenderer:wxGraphicsRenderer()`

Types:

`This = wxGraphicsObject()`

See external documentation.

`isNull(This) -> boolean()`

Types:

`This = wxGraphicsObject()`

See external documentation.

`destroy(This::wxGraphicsObject()) -> ok`

Destroys this object, do not use object again

wxGraphicsPath

Erlang module

See external documentation: **wxGraphicsPath**.

This class is derived (and can use functions) from:
wxGraphicsObject

DATA TYPES

wxGraphicsPath()

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

moveToPoint(This, P) -> ok

Types:

```
This = wxGraphicsPath()
P = {X::float(), Y::float()}
```

See [external documentation](#).

moveToPoint(This, X, Y) -> ok

Types:

```
This = wxGraphicsPath()
X = number()
Y = number()
```

See [external documentation](#).

addArc(This, C, R, StartAngle, EndAngle, Clockwise) -> ok

Types:

```
This = wxGraphicsPath()
C = {X::float(), Y::float()}
R = number()
StartAngle = number()
EndAngle = number()
Clockwise = boolean()
```

See [external documentation](#).

addArc(This, X, Y, R, StartAngle, EndAngle, Clockwise) -> ok

Types:

```
This = wxGraphicsPath()
X = number()
Y = number()
```

```
R = number()
StartAngle = number()
EndAngle = number()
Clockwise = boolean()
```

See [external documentation](#).

`addArcToPoint(This, X1, Y1, X2, Y2, R) -> ok`

Types:

```
This = wxGraphicsPath()
X1 = number()
Y1 = number()
X2 = number()
Y2 = number()
R = number()
```

See [external documentation](#).

`addCircle(This, X, Y, R) -> ok`

Types:

```
This = wxGraphicsPath()
X = number()
Y = number()
R = number()
```

See [external documentation](#).

`addCurveToPoint(This, C1, C2, E) -> ok`

Types:

```
This = wxGraphicsPath()
C1 = {X::float(), Y::float()}
C2 = {X::float(), Y::float()}
E = {X::float(), Y::float()}
```

See [external documentation](#).

`addCurveToPoint(This, Cx1, Cy1, Cx2, Cy2, X, Y) -> ok`

Types:

```
This = wxGraphicsPath()
Cx1 = number()
Cy1 = number()
Cx2 = number()
Cy2 = number()
X = number()
Y = number()
```

See [external documentation](#).

wxGraphicsPath

addEllipse(This, X, Y, W, H) -> ok

Types:

```
This = wxGraphicsPath()
X = number()
Y = number()
W = number()
H = number()
```

See [external documentation](#).

addLineToPoint(This, P) -> ok

Types:

```
This = wxGraphicsPath()
P = {X::float(), Y::float()}
```

See [external documentation](#).

addLineToPoint(This, X, Y) -> ok

Types:

```
This = wxGraphicsPath()
X = number()
Y = number()
```

See [external documentation](#).

addPath(This, Path) -> ok

Types:

```
This = wxGraphicsPath()
Path = wxGraphicsPath()
```

See [external documentation](#).

addQuadCurveToPoint(This, Cx, Cy, X, Y) -> ok

Types:

```
This = wxGraphicsPath()
Cx = number()
Cy = number()
X = number()
Y = number()
```

See [external documentation](#).

addRectangle(This, X, Y, W, H) -> ok

Types:

```
This = wxGraphicsPath()
X = number()
Y = number()
W = number()
```

```
H = number()
```

See [external documentation](#).

`addRoundedRectangle(This, X, Y, W, H, Radius) -> ok`

Types:

```
This = wxGraphicsPath()
X = number()
Y = number()
W = number()
H = number()
Radius = number()
```

See [external documentation](#).

`closeSubpath(This) -> ok`

Types:

```
This = wxGraphicsPath()
```

See [external documentation](#).

`contains(This, C) -> boolean()`

Types:

```
This = wxGraphicsPath()
C = {X::float(), Y::float()}
```

Equivalent to `contains(This, C, [])`.

`contains(This, X, Y) -> boolean()`

Types:

```
This = wxGraphicsPath()
X = number()
Y = number()
```

See [external documentation](#).

Also:

`contains(This, C, [Option]) -> boolean()` when
`This::wxGraphicsPath(), C::{X::float(), Y::float()},`
`Option :: {'fillStyle', wx:wx_enum()}.`

`FillStyle` = integer

`contains(This, X, Y, Options:[Option]) -> boolean()`

Types:

```
This = wxGraphicsPath()
X = number()
Y = number()
Option = {fillStyle, wx:wx_enum()}
```

See [external documentation](#).

wxGraphicsPath

FillStyle = integer

getBox(This) -> {X::float(), Y::float(), W::float(), H::float()}

Types:

This = *wxGraphicsPath()*

See **external documentation**.

getCurrentPoint(This) -> {X::float(), Y::float()}

Types:

This = *wxGraphicsPath()*

See **external documentation**.

transform(This, Matrix) -> ok

Types:

This = *wxGraphicsPath()*

Matrix = *wxGraphicsMatrix:wxGraphicsMatrix()*

See **external documentation**.

wxGraphicsPen

Erlang module

See external documentation: **wxGraphicsPen**.

This class is derived (and can use functions) from:
wxGraphicsObject

DATA TYPES

wxGraphicsPen()

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

wxGraphicsRenderer

Erlang module

See external documentation: **wxGraphicsRenderer**.

DATA TYPES

`wxGraphicsRenderer()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`getDefaultRenderer() -> wxGraphicsRenderer()`

See **external documentation**.

`createContext(This, Dc) -> wxGraphicsContext:wxGraphicsContext()`

Types:

```
This = wxGraphicsRenderer()
Dc = wxWindowDC:wxWindowDC() | wxWindow:wxWindow()
```

See **external documentation**.

`createPen(This, Pen) -> wxGraphicsPen:wxGraphicsPen()`

Types:

```
This = wxGraphicsRenderer()
Pen = wxPen:wxPen()
```

See **external documentation**.

`createBrush(This, Brush) -> wxGraphicsBrush:wxGraphicsBrush()`

Types:

```
This = wxGraphicsRenderer()
Brush = wxBrush:wxBrush()
```

See **external documentation**.

`createLinearGradientBrush(This, X1, Y1, X2, Y2, C1, C2) ->
wxGraphicsBrush:wxGraphicsBrush()`

Types:

```
This = wxGraphicsRenderer()
X1 = number()
Y1 = number()
X2 = number()
Y2 = number()
C1 = wx:wx_colour()
```

```
C2 = wx:wx_colour()
```

This function is deprecated: deprecated function not available in wxWidgets-2.9 and later

See [external documentation](#).

```
createRadialGradientBrush(This, Xo, Yo, Xc, Yc, Radius, OColor, CColor) ->
wxGraphicsBrush:wxGraphicsBrush()
```

Types:

```
This = wxGraphicsRenderer()
Xo = number()
Yo = number()
Xc = number()
Yc = number()
Radius = number()
OColor = wx:wx_colour()
CColor = wx:wx_colour()
```

This function is deprecated: deprecated function not available in wxWidgets-2.9 and later

See [external documentation](#).

```
createFont(This, Font) -> wxGraphicsFont:wxGraphicsFont()
```

Types:

```
This = wxGraphicsRenderer()
Font = wxFont:wxFont()
```

Equivalent to *createFont(This, Font, [])*.

```
createFont(This, Font, Options:[Option]) -> wxGraphicsFont:wxGraphicsFont()
```

Types:

```
This = wxGraphicsRenderer()
Font = wxFont:wxFont()
Option = {col, wx:wx_colour()}
```

See [external documentation](#).

```
createMatrix(This) -> wxGraphicsMatrix:wxGraphicsMatrix()
```

Types:

```
This = wxGraphicsRenderer()
```

Equivalent to *createMatrix(This, [])*.

```
createMatrix(This, Options:[Option]) -> wxGraphicsMatrix:wxGraphicsMatrix()
```

Types:

```
This = wxGraphicsRenderer()
Option = {a, number()} | {b, number()} | {c, number()} | {d, number()} |
{tx, number()} | {ty, number()}
```

See [external documentation](#).

wxGraphicsRenderer

`createPath(This) -> wxGraphicsPath:wxGraphicsPath()`

Types:

This = *wxGraphicsRenderer()*

See [external documentation](#).

wxGrid

Erlang module

See external documentation: **wxGrid**.

This class is derived (and can use functions) from:

wxScrolledWindow

wxPanel

wxWindow

wxEvtHandler

DATA TYPES

`wxGrid()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxGrid()`

See **external documentation**.

`new(Parent, Id) -> wxGrid()`

Types:

```
Parent = wxWindow:wxWindow()
Id = integer()
```

Equivalent to `new(Parent, Id, [])`.

`new(Parent, X, Y) -> wxGrid()`

Types:

```
Parent = wxWindow:wxWindow()
X = integer()
Y = integer()
```

See **external documentation**.

Also:

```
new(Parent, Id, [Option]) -> wxGrid() when
Parent::wxWindow:wxWindow(), Id::integer(),
Option :: {'pos', {X::integer(), Y::integer()}},
| {'size', {W::integer(), H::integer()}},
| {'style', integer()}.
```

`new(Parent, X, Y, Options:[Option]) -> wxGrid()`

Types:

```
Parent = wxWindow:wxWindow()
X = integer()
```

wxGrid

```
Y = integer()
Option = {w, integer()} | {h, integer()} | {style, integer()}
```

See [external documentation](#).

`appendCols(This) -> boolean()`

Types:

```
This = wxGrid()
```

Equivalent to `appendCols(This, [])`.

`appendCols(This, Options:[Option]) -> boolean()`

Types:

```
This = wxGrid()
```

```
Option = {numCols, integer()} | {updateLabels, boolean()}
```

See [external documentation](#).

`appendRows(This) -> boolean()`

Types:

```
This = wxGrid()
```

Equivalent to `appendRows(This, [])`.

`appendRows(This, Options:[Option]) -> boolean()`

Types:

```
This = wxGrid()
```

```
Option = { numRows, integer()} | { updateLabels, boolean()}
```

See [external documentation](#).

`autoSize(This) -> ok`

Types:

```
This = wxGrid()
```

See [external documentation](#).

`autoSizeColumn(This, Col) -> ok`

Types:

```
This = wxGrid()
```

```
Col = integer()
```

Equivalent to `autoSizeColumn(This, Col, [])`.

`autoSizeColumn(This, Col, Options:[Option]) -> ok`

Types:

```
This = wxGrid()
```

```
Col = integer()
```

```
Option = {setAsMin, boolean()}
```

See [external documentation](#).

```
autoSizeColumns(This) -> ok
```

Types:

```
  This = wxGrid()
```

Equivalent to *autoSizeColumns(This, [])*.

```
autoSizeColumns(This, Options::[Option]) -> ok
```

Types:

```
  This = wxGrid()
```

```
  Option = {setAsMin, boolean()}
```

See **external documentation**.

```
autoSizeRow(This, Row) -> ok
```

Types:

```
  This = wxGrid()
```

```
  Row = integer()
```

Equivalent to *autoSizeRow(This, Row, [])*.

```
autoSizeRow(This, Row, Options::[Option]) -> ok
```

Types:

```
  This = wxGrid()
```

```
  Row = integer()
```

```
  Option = {setAsMin, boolean()}
```

See **external documentation**.

```
autoSizeRows(This) -> ok
```

Types:

```
  This = wxGrid()
```

Equivalent to *autoSizeRows(This, [])*.

```
autoSizeRows(This, Options::[Option]) -> ok
```

Types:

```
  This = wxGrid()
```

```
  Option = {setAsMin, boolean()}
```

See **external documentation**.

```
beginBatch(This) -> ok
```

Types:

```
  This = wxGrid()
```

See **external documentation**.

```
blockToDeviceRect(This, TopLeft, BottomRight) -> {X::integer(), Y::integer(),  
W::integer(), H::integer()}
```

Types:

wxGrid

```
This = wxGrid()
TopLeft = {R::integer(), C::integer()}
BottomRight = {R::integer(), C::integer()}
```

See [external documentation](#).

canDragColSize(This) -> boolean()

Types:

```
This = wxGrid()
```

See [external documentation](#).

canDragRowSize(This) -> boolean()

Types:

```
This = wxGrid()
```

See [external documentation](#).

canDragGridSize(This) -> boolean()

Types:

```
This = wxGrid()
```

See [external documentation](#).

canEnableCellControl(This) -> boolean()

Types:

```
This = wxGrid()
```

See [external documentation](#).

cellToRect(This, Coords) -> {X::integer(), Y::integer(), W::integer(), H::integer()}

Types:

```
This = wxGrid()
```

```
Coords = {R::integer(), C::integer()}
```

See [external documentation](#).

cellToRect(This, Row, Col) -> {X::integer(), Y::integer(), W::integer(), H::integer()}

Types:

```
This = wxGrid()
```

```
Row = integer()
```

```
Col = integer()
```

See [external documentation](#).

clearGrid(This) -> ok

Types:

```
This = wxGrid()
```

See [external documentation](#).

`clearSelection(This) -> ok`

Types:

`This = wxGrid()`

See [external documentation](#).

`createGrid(This, NumRows, NumCols) -> boolean()`

Types:

`This = wxGrid()`

`NumRows = integer()`

`NumCols = integer()`

Equivalent to `createGrid(This, NumRows, NumCols, [])`.

`createGrid(This, NumRows, NumCols, Options:[Option]) -> boolean()`

Types:

`This = wxGrid()`

`NumRows = integer()`

`NumCols = integer()`

`Option = {selmode, wx:wx_enum()}`

See [external documentation](#).

Semode = ?wxGrid_wxGridSelectCells | ?wxGrid_wxGridSelectRows | ?wxGrid_wxGridSelectColumns

`deleteCols(This) -> boolean()`

Types:

`This = wxGrid()`

Equivalent to `deleteCols(This, [])`.

`deleteCols(This, Options:[Option]) -> boolean()`

Types:

`This = wxGrid()`

`Option = {pos, integer()} | {numCols, integer()} | {updateLabels, boolean()}`

See [external documentation](#).

`deleteRows(This) -> boolean()`

Types:

`This = wxGrid()`

Equivalent to `deleteRows(This, [])`.

`deleteRows(This, Options:[Option]) -> boolean()`

Types:

`This = wxGrid()`

wxGrid

```
Option = {pos, integer()} | {numRows, integer()} | {updateLabels,  
boolean()}
```

See [external documentation](#).

`disableCellEditControl(This) -> ok`

Types:

```
This = wxGrid()
```

See [external documentation](#).

`disableDragColSize(This) -> ok`

Types:

```
This = wxGrid()
```

See [external documentation](#).

`disableDragGridSize(This) -> ok`

Types:

```
This = wxGrid()
```

See [external documentation](#).

`disableDragRowSize(This) -> ok`

Types:

```
This = wxGrid()
```

See [external documentation](#).

`enableCellEditControl(This) -> ok`

Types:

```
This = wxGrid()
```

Equivalent to `enableCellEditControl(This, [])`.

`enableCellEditControl(This, Options::[Option]) -> ok`

Types:

```
This = wxGrid()
```

```
Option = {enable, boolean()}
```

See [external documentation](#).

`enableDragColSize(This) -> ok`

Types:

```
This = wxGrid()
```

Equivalent to `enableDragColSize(This, [])`.

`enableDragColSize(This, Options::[Option]) -> ok`

Types:

```
This = wxGrid()
```

```
Option = {enable, boolean()}
```

See [external documentation](#).

enableDragGridSize(This) -> ok

Types:

```
This = wxGrid()
```

Equivalent to *enableDragGridSize(This, [])*.

enableDragGridSize(This, Options:[Option]) -> ok

Types:

```
This = wxGrid()
```

```
Option = {enable, boolean()}
```

See [external documentation](#).

enableDragRowSize(This) -> ok

Types:

```
This = wxGrid()
```

Equivalent to *enableDragRowSize(This, [])*.

enableDragRowSize(This, Options:[Option]) -> ok

Types:

```
This = wxGrid()
```

```
Option = {enable, boolean()}
```

See [external documentation](#).

enableEditing(This, Edit) -> ok

Types:

```
This = wxGrid()
```

```
Edit = boolean()
```

See [external documentation](#).

enableGridLines(This) -> ok

Types:

```
This = wxGrid()
```

Equivalent to *enableGridLines(This, [])*.

enableGridLines(This, Options:[Option]) -> ok

Types:

```
This = wxGrid()
```

```
Option = {enable, boolean()}
```

See [external documentation](#).

wxGrid

endBatch(This) -> ok

Types:

This = wxGrid()

See **external documentation**.

fit(This) -> ok

Types:

This = wxGrid()

See **external documentation**.

forceRefresh(This) -> ok

Types:

This = wxGrid()

See **external documentation**.

getBatchCount(This) -> integer()

Types:

This = wxGrid()

See **external documentation**.

getCellAlignment(This, Row, Col) -> {Horiz::integer(), Vert::integer()}

Types:

This = wxGrid()

Row = integer()

Col = integer()

See **external documentation**.

getCellBackgroundColour(This, Row, Col) -> wx:wx_colour4()

Types:

This = wxGrid()

Row = integer()

Col = integer()

See **external documentation**.

getCellEditor(This, Row, Col) -> wxGridCellEditor:wxGridCellEditor()

Types:

This = wxGrid()

Row = integer()

Col = integer()

See **external documentation**.

getCellFont(This, Row, Col) -> wxFont:wxFont()

Types:

```
This = wxGrid()
Row = integer()
Col = integer()
```

See [external documentation](#).

getCellRenderer(This, Row, Col) -> wxGridCellRenderer:wxGridCellRenderer()

Types:

```
This = wxGrid()
Row = integer()
Col = integer()
```

See [external documentation](#).

getCellTextColour(This, Row, Col) -> wx:wx_colour4()

Types:

```
This = wxGrid()
Row = integer()
Col = integer()
```

See [external documentation](#).

getCellValue(This, Coords) -> unicode:charlist()

Types:

```
This = wxGrid()
Coords = {R::integer(), C::integer()}
```

See [external documentation](#).

getCellValue(This, Row, Col) -> unicode:charlist()

Types:

```
This = wxGrid()
Row = integer()
Col = integer()
```

See [external documentation](#).

getColLabelAlignment(This) -> {Horiz::integer(), Vert::integer()}

Types:

```
This = wxGrid()
```

See [external documentation](#).

getColLabelSize(This) -> integer()

Types:

```
This = wxGrid()
```

See [external documentation](#).

wxGrid

getColLabelValue(This, Col) -> unicode:charlist()

Types:

```
This = wxGrid()  
Col = integer()
```

See [external documentation](#).

getColMinimalAcceptableWidth(This) -> integer()

Types:

```
This = wxGrid()
```

See [external documentation](#).

getDefaultCellAlignment(This) -> {Horiz::integer(), Vert::integer()}

Types:

```
This = wxGrid()
```

See [external documentation](#).

getDefaultCellBackgroundColour(This) -> wx:wx_colour4()

Types:

```
This = wxGrid()
```

See [external documentation](#).

getDefaultCellFont(This) -> wxFont:wxFont()

Types:

```
This = wxGrid()
```

See [external documentation](#).

getDefaultCellTextColour(This) -> wx:wx_colour4()

Types:

```
This = wxGrid()
```

See [external documentation](#).

getDefaultColLabelSize(This) -> integer()

Types:

```
This = wxGrid()
```

See [external documentation](#).

getDefaultColSize(This) -> integer()

Types:

```
This = wxGrid()
```

See [external documentation](#).

getDefaultEditor(This) -> wxGridCellEditor:wxGridCellEditor()

Types:

```
This = wxGrid()
```

See [external documentation](#).

getDefaultValueForCell(This, C) -> wxGridCellEditor:wxGridCellEditor()

Types:

```
This = wxGrid()
C = {R::integer(), C::integer()}
```

See [external documentation](#).

getDefaultValueForCell(This, Row, Col) ->
wxGridCellEditor:wxGridCellEditor()

Types:

```
This = wxGrid()
Row = integer()
Col = integer()
```

See [external documentation](#).

getDefaultValueForType(This, TypeName) ->
wxGridCellEditor:wxGridCellEditor()

Types:

```
This = wxGrid()
TypeName = unicode:chardata()
```

See [external documentation](#).

getDefaultValueForRenderer(This) -> wxGridCellRenderer:wxGridCellRenderer()

Types:

```
This = wxGrid()
```

See [external documentation](#).

getDefaultValueForCellRenderer(This, Row, Col) ->
wxGridCellRenderer:wxGridCellRenderer()

Types:

```
This = wxGrid()
Row = integer()
Col = integer()
```

See [external documentation](#).

getDefaultValueForTypeRenderer(This, TypeName) ->
wxGridCellRenderer:wxGridCellRenderer()

Types:

```
This = wxGrid()
TypeName = unicode:chardata()
```

See [external documentation](#).

wxGrid

getDefaultValueLabelSize(This) -> integer()

Types:

This = wxGrid()

See [external documentation](#).

getDefaultValueSize(This) -> integer()

Types:

This = wxGrid()

See [external documentation](#).

getGridCursorCol(This) -> integer()

Types:

This = wxGrid()

See [external documentation](#).

getGridCursorRow(This) -> integer()

Types:

This = wxGrid()

See [external documentation](#).

getGridLineColour(This) -> wx:wx_colour4()

Types:

This = wxGrid()

See [external documentation](#).

gridLinesEnabled(This) -> boolean()

Types:

This = wxGrid()

See [external documentation](#).

getLabelBackgroundColour(This) -> wx:wx_colour4()

Types:

This = wxGrid()

See [external documentation](#).

getLabelFont(This) -> wxFONT:wxFONT()

Types:

This = wxGrid()

See [external documentation](#).

getLabelTextColour(This) -> wx:wx_colour4()

Types:

This = wxGrid()

See **external documentation**.

`getNumberCols(This) -> integer()`

Types:

`This = wxGrid()`

See **external documentation**.

`getNumberRows(This) -> integer()`

Types:

`This = wxGrid()`

See **external documentation**.

`getOrCreateCellAttr(This, Row, Col) -> wxGridCellAttr:wxGridCellAttr()`

Types:

`This = wxGrid()`

`Row = integer()`

`Col = integer()`

See **external documentation**.

`getRowMinimalAcceptableHeight(This) -> integer()`

Types:

`This = wxGrid()`

See **external documentation**.

`getRowLabelAlignment(This) -> {Horiz::integer(), Vert::integer()}`

Types:

`This = wxGrid()`

See **external documentation**.

`getRowLabelSize(This) -> integer()`

Types:

`This = wxGrid()`

See **external documentation**.

`getRowLabelValue(This, Row) -> unicode:charlist()`

Types:

`This = wxGrid()`

`Row = integer()`

See **external documentation**.

`getRowSize(This, Row) -> integer()`

Types:

`This = wxGrid()`

wxGrid

`Row = integer()`

See [external documentation](#).

`getScrollLineX(This) -> integer()`

Types:

`This = wxGrid()`

See [external documentation](#).

`getScrollLineY(This) -> integer()`

Types:

`This = wxGrid()`

See [external documentation](#).

`getSelectedCells(This) -> [{R::integer(), C::integer()}]`

Types:

`This = wxGrid()`

See [external documentation](#).

`getSelectedCols(This) -> [integer()]`

Types:

`This = wxGrid()`

See [external documentation](#).

`getSelectedRows(This) -> [integer()]`

Types:

`This = wxGrid()`

See [external documentation](#).

`getSelectionBackground(This) -> wx:wx_colour4()`

Types:

`This = wxGrid()`

See [external documentation](#).

`getSelectionBlockTopLeft(This) -> [{R::integer(), C::integer()}]`

Types:

`This = wxGrid()`

See [external documentation](#).

`getSelectionBlockBottomRight(This) -> [{R::integer(), C::integer()}]`

Types:

`This = wxGrid()`

See [external documentation](#).

```
getSelectionForeground(This) -> wx:wx_colour4()
```

Types:

```
  This = wxGrid()
```

See [external documentation](#).

```
getViewWidth(This) -> integer()
```

Types:

```
  This = wxGrid()
```

See [external documentation](#).

```
getGridWindow(This) -> wxWindow:wxWindow()
```

Types:

```
  This = wxGrid()
```

See [external documentation](#).

```
getGridRowLabelWindow(This) -> wxWindow:wxWindow()
```

Types:

```
  This = wxGrid()
```

See [external documentation](#).

```
getGridColLabelWindow(This) -> wxWindow:wxWindow()
```

Types:

```
  This = wxGrid()
```

See [external documentation](#).

```
getGridCornerLabelWindow(This) -> wxWindow:wxWindow()
```

Types:

```
  This = wxGrid()
```

See [external documentation](#).

```
hideCellEditControl(This) -> ok
```

Types:

```
  This = wxGrid()
```

See [external documentation](#).

```
insertCols(This) -> boolean()
```

Types:

```
  This = wxGrid()
```

Equivalent to `insertCols(This, [])`.

```
insertCols(This, Options::[Option]) -> boolean()
```

Types:

```
  This = wxGrid()
```

wxGrid

```
Option = {pos, integer()} | {numCols, integer()} | {updateLabels,  
boolean()}
```

See [external documentation](#).

insertRows(This) -> boolean()

Types:

```
This = wxGrid()
```

Equivalent to *insertRows(This, []).*

insertRows(This, Options:[Option]) -> boolean()

Types:

```
This = wxGrid()
```

```
Option = {pos, integer()} | {numRows, integer()} | {updateLabels,  
boolean()}
```

See [external documentation](#).

isCellEditControlEnabled(This) -> boolean()

Types:

```
This = wxGrid()
```

See [external documentation](#).

isCurrentCellReadOnly(This) -> boolean()

Types:

```
This = wxGrid()
```

See [external documentation](#).

isEditable(This) -> boolean()

Types:

```
This = wxGrid()
```

See [external documentation](#).

isInSelection(This, Coords) -> boolean()

Types:

```
This = wxGrid()
```

```
Coords = {R::integer(), C::integer()}
```

See [external documentation](#).

isInSelection(This, Row, Col) -> boolean()

Types:

```
This = wxGrid()
```

```
Row = integer()
```

```
Col = integer()
```

See [external documentation](#).

```
isReadOnly(This, Row, Col) -> boolean()
```

Types:

```
This = wxGrid()
Row = integer()
Col = integer()
```

See [external documentation](#).

```
isSelection(This) -> boolean()
```

Types:

```
This = wxGrid()
```

See [external documentation](#).

```
isVisible(This, Coords) -> boolean()
```

Types:

```
This = wxGrid()
Coords = {R::integer(), C::integer()}
```

Equivalent to `isVisible(This, Coords, [])`.

```
isVisible(This, Row, Col) -> boolean()
```

Types:

```
This = wxGrid()
Row = integer()
Col = integer()
```

See [external documentation](#).

Also:

`isVisible(This, Coords, [Option]) -> boolean()` when

`This::wxGrid(), Coords::{R::integer(), C::integer()}`,

`Option :: {'wholeCellVisible', boolean()}`.

```
isVisible(This, Row, Col, Options:[Option]) -> boolean()
```

Types:

```
This = wxGrid()
Row = integer()
Col = integer()
Option = {wholeCellVisible, boolean()}
```

See [external documentation](#).

```
makeCellVisible(This, Coords) -> ok
```

Types:

```
This = wxGrid()
Coords = {R::integer(), C::integer()}
```

See [external documentation](#).

wxGrid

`makeCellVisible(This, Row, Col) -> ok`

Types:

```
This = wxGrid()  
Row = integer()  
Col = integer()
```

See [external documentation](#).

`moveCursorDown(This, ExpandSelection) -> boolean()`

Types:

```
This = wxGrid()  
ExpandSelection = boolean()
```

See [external documentation](#).

`moveCursorLeft(This, ExpandSelection) -> boolean()`

Types:

```
This = wxGrid()  
ExpandSelection = boolean()
```

See [external documentation](#).

`moveCursorRight(This, ExpandSelection) -> boolean()`

Types:

```
This = wxGrid()  
ExpandSelection = boolean()
```

See [external documentation](#).

`moveCursorUp(This, ExpandSelection) -> boolean()`

Types:

```
This = wxGrid()  
ExpandSelection = boolean()
```

See [external documentation](#).

`moveCursorDownBlock(This, ExpandSelection) -> boolean()`

Types:

```
This = wxGrid()  
ExpandSelection = boolean()
```

See [external documentation](#).

`moveCursorLeftBlock(This, ExpandSelection) -> boolean()`

Types:

```
This = wxGrid()  
ExpandSelection = boolean()
```

See [external documentation](#).

moveCursorRightBlock(This, ExpandSelection) -> boolean()

Types:

```
This = wxGrid()
ExpandSelection = boolean()
```

See [external documentation](#).

moveCursorUpBlock(This, ExpandSelection) -> boolean()

Types:

```
This = wxGrid()
ExpandSelection = boolean()
```

See [external documentation](#).

movePageDown(This) -> boolean()

Types:

```
This = wxGrid()
```

See [external documentation](#).

movePageUp(This) -> boolean()

Types:

```
This = wxGrid()
```

See [external documentation](#).

registerDataType(This, TypeName, Renderer, Editor) -> ok

Types:

```
This = wxGrid()
TypeName = unicode:chardata()
Renderer = wxGridCellRenderer:wxGridCellRenderer()
Editor = wxGridCellEditor:wxGridCellEditor()
```

See [external documentation](#).

saveEditControlValue(This) -> ok

Types:

```
This = wxGrid()
```

See [external documentation](#).

selectAll(This) -> ok

Types:

```
This = wxGrid()
```

See [external documentation](#).

selectBlock(This, TopLeft, BottomRight) -> ok

Types:

```
This = wxGrid()
```

wxGrid

```
TopLeft = {R::integer(), C::integer()}
BottomRight = {R::integer(), C::integer()}
```

Equivalent to `selectBlock(This, TopLeft, BottomRight, []).`

`selectBlock(This, TopLeft, BottomRight, Options:[Option]) -> ok`

Types:

```
This = wxGrid()
TopLeft = {R::integer(), C::integer()}
BottomRight = {R::integer(), C::integer()}
Option = {addToSelected, boolean()}
```

See [external documentation](#).

`selectBlock(This, TopRow, LeftCol, BottomRow, RightCol) -> ok`

Types:

```
This = wxGrid()
TopRow = integer()
LeftCol = integer()
BottomRow = integer()
RightCol = integer()
```

Equivalent to `selectBlock(This, TopRow, LeftCol, BottomRow, RightCol, []).`

`selectBlock(This, TopRow, LeftCol, BottomRow, RightCol, Options:[Option]) -> ok`

Types:

```
This = wxGrid()
TopRow = integer()
LeftCol = integer()
BottomRow = integer()
RightCol = integer()
Option = {addToSelected, boolean()}
```

See [external documentation](#).

`selectCol(This, Col) -> ok`

Types:

```
This = wxGrid()
Col = integer()
```

Equivalent to `selectCol(This, Col, []).`

`selectCol(This, Col, Options:[Option]) -> ok`

Types:

```
This = wxGrid()
Col = integer()
Option = {addToSelected, boolean()}
```

See [external documentation](#).

`selectRow(This, Row) -> ok`

Types:

```
This = wxGrid()  
Row = integer()
```

Equivalent to `selectRow(This, Row, []).`

`selectRow(This, Row, Options::[Option]) -> ok`

Types:

```
This = wxGrid()  
Row = integer()  
Option = {addToSelected, boolean()}
```

See [external documentation](#).

`setCellAlignment(This, Align) -> ok`

Types:

```
This = wxGrid()  
Align = integer()
```

See [external documentation](#).

`setCellAlignment(This, Align, Row, Col) -> ok`

Types:

```
This = wxGrid()  
Align = integer()  
Row = integer()  
Col = integer()
```

See [external documentation](#).

`setCellAlignment(This, Row, Col, Horiz, Vert) -> ok`

Types:

```
This = wxGrid()  
Row = integer()  
Col = integer()  
Horiz = integer()  
Vert = integer()
```

See [external documentation](#).

`setCellBackgroundColour(This, Col) -> ok`

Types:

```
This = wxGrid()  
Col = wx:wx_colour()
```

See [external documentation](#).

wxGrid

`setCellBackgroundColour(This, Row, Col, Val) -> ok`

Types:

```
This = wxGrid()
Row = integer()
Col = integer()
Val = wx:wx_colour()
```

See [external documentation](#).

Also:

`setCellBackgroundColour(This, Colour, Row, Col) -> 'ok' when`
`This::wxGrid(), Colour::wx:wx_colour(), Row::integer(), Col::integer().`

`setCellEditor(This, Row, Col, Editor) -> ok`

Types:

```
This = wxGrid()
Row = integer()
Col = integer()
Editor = wxGridCellEditor:wxGridCellEditor()
```

See [external documentation](#).

`setCellFont(This, Row, Col, Val) -> ok`

Types:

```
This = wxGrid()
Row = integer()
Col = integer()
Val = wxFont:wxFont()
```

See [external documentation](#).

`setCellRenderer(This, Row, Col, Renderer) -> ok`

Types:

```
This = wxGrid()
Row = integer()
Col = integer()
Renderer = wxGridCellRenderer:wxGridCellRenderer()
```

See [external documentation](#).

`setCellTextColour(This, Col) -> ok`

Types:

```
This = wxGrid()
Col = wx:wx_colour()
```

See [external documentation](#).

`setCellTextColour(This, Row, Col, Val) -> ok`

Types:

```
This = wxGrid()
Row = integer()
Col = integer()
Val = wx:wx_colour()
```

See [external documentation](#).

Also:

setCellTextColour(This, Val, Row, Col) -> 'ok' when
 This::wxGrid(), Val::wx:wx_colour(), Row::integer(), Col::integer().

setCellValue(This, Coords, S) -> ok

Types:

```
This = wxGrid()
Coords = {R::integer(), C::integer()}
S = unicode:chardata()
```

See [external documentation](#).

setCellValue(This, Row, Col, S) -> ok

Types:

```
This = wxGrid()
Row = integer()
Col = integer()
S = unicode:chardata()
```

See [external documentation](#).

Also:

setCellValue(This, Val, Row, Col) -> 'ok' when
 This::wxGrid(), Val::unicode:chardata(), Row::integer(), Col::integer().

setColAttr(This, Col, Attr) -> ok

Types:

```
This = wxGrid()
Col = integer()
Attr = wxGridCellAttr:wxGridCellAttr()
```

See [external documentation](#).

setColFormatBool(This, Col) -> ok

Types:

```
This = wxGrid()
Col = integer()
```

See [external documentation](#).

setColFormatNumber(This, Col) -> ok

Types:

```
This = wxGrid()
Col = integer()
```

wxGrid

See [external documentation](#).

`setColFormatFloat(This, Col) -> ok`

Types:

```
This = wxGrid()  
Col = integer()
```

Equivalent to `setColFormatFloat(This, Col, []).`

`setColFormatFloat(This, Col, Options:[Option]) -> ok`

Types:

```
This = wxGrid()  
Col = integer()  
Option = {width, integer()} | {precision, integer()}
```

See [external documentation](#).

`setColFormatCustom(This, Col, TypeName) -> ok`

Types:

```
This = wxGrid()  
Col = integer()  
TypeName = unicode:chardata()
```

See [external documentation](#).

`setColLabelAlignment(This, Horiz, Vert) -> ok`

Types:

```
This = wxGrid()  
Horiz = integer()  
Vert = integer()
```

See [external documentation](#).

`setColLabelSize(This, Height) -> ok`

Types:

```
This = wxGrid()  
Height = integer()
```

See [external documentation](#).

`setColLabelValue(This, Col, Val) -> ok`

Types:

```
This = wxGrid()  
Col = integer()  
Val = unicode:chardata()
```

See [external documentation](#).

```
setColMinimalWidth(This, Col, Width) -> ok
```

Types:

```
This = wxGrid()  
Col = integer()  
Width = integer()
```

See [external documentation](#).

```
setColMinimalAcceptableWidth(This, Width) -> ok
```

Types:

```
This = wxGrid()  
Width = integer()
```

See [external documentation](#).

```
setColSize(This, Col, Width) -> ok
```

Types:

```
This = wxGrid()  
Col = integer()  
Width = integer()
```

See [external documentation](#).

```
setDefaultCellAlignment(This, Horiz, Vert) -> ok
```

Types:

```
This = wxGrid()  
Horiz = integer()  
Vert = integer()
```

See [external documentation](#).

```
setDefaultCellBackgroundColour(This, Val) -> ok
```

Types:

```
This = wxGrid()  
Val = wx:wx_colour()
```

See [external documentation](#).

```
setDefaultCellFont(This, Val) -> ok
```

Types:

```
This = wxGrid()  
Val = wxFont:wxFont()
```

See [external documentation](#).

```
setDefaultCellTextColour(This, Val) -> ok
```

Types:

```
This = wxGrid()  
Val = wx:wx_colour()
```

wxGrid

See [external documentation](#).

`setDefaultEditor(This, Editor) -> ok`

Types:

```
This = wxGrid()
Editor = wxGridCellEditor:wxGridCellEditor()
```

See [external documentation](#).

`setDefaultRenderer(This, Renderer) -> ok`

Types:

```
This = wxGrid()
Renderer = wxGridCellRenderer:wxGridCellRenderer()
```

See [external documentation](#).

`setDefaultColSize(This, Width) -> ok`

Types:

```
This = wxGrid()
Width = integer()
```

Equivalent to `setDefaultColSize(This, Width, [])`.

`setDefaultColSize(This, Width, Options:[Option]) -> ok`

Types:

```
This = wxGrid()
Width = integer()
Option = {resizeExistingCols, boolean()}
```

See [external documentation](#).

`setDefaultRowSize(This, Height) -> ok`

Types:

```
This = wxGrid()
Height = integer()
```

Equivalent to `setDefaultRowSize(This, Height, [])`.

`setDefaultRowSize(This, Height, Options:[Option]) -> ok`

Types:

```
This = wxGrid()
Height = integer()
Option = {resizeExistingRows, boolean()}
```

See [external documentation](#).

`setGridCursor(This, Row, Col) -> ok`

Types:

```
This = wxGrid()
```

```
Row = integer()
Col = integer()
```

See [external documentation](#).

`setGridLineColour(This, Val) -> ok`

Types:

```
This = wxGrid()
Val = wx:wx_colour()
```

See [external documentation](#).

`setLabelBackgroundColour(This, Val) -> ok`

Types:

```
This = wxGrid()
Val = wx:wx_colour()
```

See [external documentation](#).

`setLabelFont(This, Val) -> ok`

Types:

```
This = wxGrid()
Val = wxFont:wxFont()
```

See [external documentation](#).

`setLabelTextColour(This, Val) -> ok`

Types:

```
This = wxGrid()
Val = wx:wx_colour()
```

See [external documentation](#).

`setMargins(This, ExtraWidth, ExtraHeight) -> ok`

Types:

```
This = wxGrid()
ExtraWidth = integer()
ExtraHeight = integer()
```

See [external documentation](#).

`setReadOnly(This, Row, Col) -> ok`

Types:

```
This = wxGrid()
Row = integer()
Col = integer()
```

Equivalent to `setReadOnly(This, Row, Col, [J])`.

wxGrid

`setReadOnly(This, Row, Col, Options::[Option]) -> ok`

Types:

```
This = wxGrid()
Row = integer()
Col = integer()
Option = {isReadOnly, boolean()}
```

See [external documentation](#).

`setRowAttr(This, Row, Attr) -> ok`

Types:

```
This = wxGrid()
Row = integer()
Attr = wxGridCellAttr:wxGridCellAttr()
```

See [external documentation](#).

`setRowLabelAlignment(This, Horiz, Vert) -> ok`

Types:

```
This = wxGrid()
Horiz = integer()
Vert = integer()
```

See [external documentation](#).

`setRowLabelSize(This, Width) -> ok`

Types:

```
This = wxGrid()
Width = integer()
```

See [external documentation](#).

`setRowLabelValue(This, Row, Val) -> ok`

Types:

```
This = wxGrid()
Row = integer()
Val = unicode:chardata()
```

See [external documentation](#).

`setRowMinimalHeight(This, Row, Width) -> ok`

Types:

```
This = wxGrid()
Row = integer()
Width = integer()
```

See [external documentation](#).

`setRowMinimalAcceptableHeight(This, Width) -> ok`

Types:

```
This = wxGrid()
Width = integer()
```

See [external documentation](#).

`setRowSize(This, Row, Height) -> ok`

Types:

```
This = wxGrid()
Row = integer()
Height = integer()
```

See [external documentation](#).

`setScrollLineX(This, X) -> ok`

Types:

```
This = wxGrid()
X = integer()
```

See [external documentation](#).

`setScrollLineY(This, Y) -> ok`

Types:

```
This = wxGrid()
Y = integer()
```

See [external documentation](#).

`setSelectionBackground(This, C) -> ok`

Types:

```
This = wxGrid()
C = wx:wx_colour()
```

See [external documentation](#).

`setSelectionForeground(This, C) -> ok`

Types:

```
This = wxGrid()
C = wx:wx_colour()
```

See [external documentation](#).

`setSelectionMode(This, Selmode) -> ok`

Types:

```
This = wxGrid()
Selmode = wx:wx_enum()
```

See [external documentation](#).

Selmode = ?wxGrid_wxGridSelectCells | ?wxGrid_wxGridSelectRows | ?wxGrid_wxGridSelectColumns

wxGrid

showCellEditControl(This) -> ok

Types:

```
This = wxGrid()
```

See [external documentation](#).

xToCol(This, X) -> integer()

Types:

```
This = wxGrid()
```

```
X = integer()
```

Equivalent to *xToCol(This, X, []).*

xToCol(This, X, Options:[Option]) -> integer()

Types:

```
This = wxGrid()
```

```
X = integer()
```

```
Option = {clipToMinMax, boolean()}
```

See [external documentation](#).

xToEdgeOfCol(This, X) -> integer()

Types:

```
This = wxGrid()
```

```
X = integer()
```

See [external documentation](#).

yToEdgeOfRow(This, Y) -> integer()

Types:

```
This = wxGrid()
```

```
Y = integer()
```

See [external documentation](#).

yToRow(This, Y) -> integer()

Types:

```
This = wxGrid()
```

```
Y = integer()
```

See [external documentation](#).

destroy(This::wxGrid()) -> ok

Destroys this object, do not use object again

wxGridBagSizer

Erlang module

See external documentation: **wxGridBagSizer**.

This class is derived (and can use functions) from:

wxFlexGridSizer

wxGridSizer

wxSizer

DATA TYPES

`wxGridBagSizer()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxGridBagSizer()`

Equivalent to `new([])`.

`new(Options :: [Option]) -> wxGridBagSizer()`

Types:

`Option = {vgap, integer()} | {hgap, integer()}`

See external documentation.

`add(This, Item) -> wxSizerItem:wxSizerItem()`

Types:

`This = wxGridBagSizer()`

`Item = wxSizerItem:wxSizerItem() | wxGBSizerItem:wxGBSizerItem()`

See external documentation.

`add(This, Width, Height) -> wxSizerItem:wxSizerItem()`

Types:

`This = wxGridBagSizer()`

`Width = integer()`

`Height = integer()`

See external documentation.

Also:

`add(This, Window, Pos) -> wxSizerItem:wxSizerItem() when`

`This::wxGridBagSizer(), Window::wxWindow:wxWindow() | wxSizer:wxSizer(), Pos::{R::integer(), C::integer()};`
`(This, Window, [Option]) -> wxSizerItem:wxSizerItem() when`

`This::wxGridBagSizer(), Window::wxWindow:wxWindow() | wxSizer:wxSizer(),`
`Option :: {'proportion', integer()}`

`| {'flag', integer()}`

wxGridBagSizer

```
| {'border', integer()}
| {'userData', wx:wx_object()}.
```

```
add(This, Width, Height, Pos) -> wxSizerItem:wxSizerItem()
```

Types:

```
This = wxGridBagSizer()
Width = integer()
Height = integer()
Pos = {R::integer(), C::integer()}
```

See [external documentation](#).

Also:

```
add(This, Width, Height, [Option]) -> wxSizerItem:wxSizerItem() when
```

```
This::wxGridBagSizer(), Width::integer(), Height::integer(),
```

```
Option :: {'proportion', integer()}
```

```
| {'flag', integer()}
| {'border', integer()}
| {'userData', wx:wx_object()};
(This, Window, Pos, [Option]) -> wxSizerItem:wxSizerItem() when
```

```
This::wxGridBagSizer(), Window::wxWindow:wxWindow() | wxSizer:wxSizer(), Pos:{R::integer(), C::integer()},
```

```
Option :: {'span', {RS::integer(), CS::integer()}}
```

```
| {'flag', integer()}
| {'border', integer()}
| {'userData', wx:wx_object()}.
```

```
add(This, Width, Height, Pos, Options:[Option]) -> wxSizerItem:wxSizerItem()
```

Types:

```
This = wxGridBagSizer()
Width = integer()
Height = integer()
Pos = {R::integer(), C::integer()}
Option = {span, {RS::integer(), CS::integer()}} | {flag, integer()} |
{border, integer()} | {userData, wx:wx_object()}
```

See [external documentation](#).

```
calcMin(This) -> {W::integer(), H::integer()}
```

Types:

```
This = wxGridBagSizer()
```

See [external documentation](#).

```
checkForIntersection(This, Item) -> boolean()
```

Types:

```
This = wxGridBagSizer()
Item = wxGBSizerItem:wxGBSizerItem()
```

Equivalent to *checkForIntersection(This, Item, [])*.

```
checkForIntersection(This, Pos, Span) -> boolean()
```

Types:

```
This = wxGridBagSizer()  
Pos = {R:::integer(), C:::integer()}  
Span = {RS:::integer(), CS:::integer()}
```

See [external documentation](#).

Also:

```
checkForIntersection(This, Item, [Option]) -> boolean() when  
This::wxGridBagSizer(), Item::wxGBSizerItem:wxGBSizerItem(),  
Option :: {'excludeItem', wxGBSizerItem:wxGBSizerItem()}.  
  
checkForIntersection(This, Pos, Span, Options:[Option]) -> boolean()
```

Types:

```
This = wxGridBagSizer()  
Pos = {R:::integer(), C:::integer()}  
Span = {RS:::integer(), CS:::integer()}  
Option = {excludeItem, wxGBSizerItem:wxGBSizerItem() }
```

See [external documentation](#).

```
findItem(This, Window) -> wxGBSizerItem:wxGBSizerItem()
```

Types:

```
This = wxGridBagSizer()  
Window = wxWindow:wxWindow() | wxSizer:wxSizer()
```

See [external documentation](#).

```
findItemAtPoint(This, Pt) -> wxGBSizerItem:wxGBSizerItem()
```

Types:

```
This = wxGridBagSizer()  
Pt = {X:::integer(), Y:::integer()}
```

See [external documentation](#).

```
findItemAtPosition(This, Pos) -> wxGBSizerItem:wxGBSizerItem()
```

Types:

```
This = wxGridBagSizer()  
Pos = {R:::integer(), C:::integer()}
```

See [external documentation](#).

```
findItemWithData(This, UserData) -> wxGBSizerItem:wxGBSizerItem()
```

Types:

```
This = wxGridBagSizer()  
UserData = wx:wx_object()
```

See [external documentation](#).

wxGridBagSizer

`getCellSize(This, Row, Col) -> {W::integer(), H::integer()}`

Types:

```
This = wxGridBagSizer()
Row = integer()
Col = integer()
```

See [external documentation](#).

`getEmptyCellSize(This) -> {W::integer(), H::integer()}`

Types:

```
This = wxGridBagSizer()
```

See [external documentation](#).

`getItemPosition(This, Index) -> {R::integer(), C::integer()}`

Types:

```
This = wxGridBagSizer()
Index = integer()
```

See [external documentation](#).

Also:

`getItemPosition(This, Window) -> {R::integer(), C::integer()}` when
This::wxGridBagSizer(), Window::wxWindow:wxWindow() | wxSizer:wxSizer().

`getItemSpan(This, Index) -> {RS::integer(), CS::integer()}`

Types:

```
This = wxGridBagSizer()
Index = integer()
```

See [external documentation](#).

Also:

`getItemSpan(This, Window) -> {RS::integer(), CS::integer()}` when
This::wxGridBagSizer(), Window::wxWindow:wxWindow() | wxSizer:wxSizer().

`setEmptyCellSize(This, Sz) -> ok`

Types:

```
This = wxGridBagSizer()
Sz = {W::integer(), H::integer()}
```

See [external documentation](#).

`setItemPosition(This, Index, Pos) -> boolean()`

Types:

```
This = wxGridBagSizer()
Index = integer()
Pos = {R::integer(), C::integer()}
```

See [external documentation](#).

Also:

`setItemPosition(This, Window, Pos) -> boolean()` when

This::wxGridBagSizer(), Window::wxWindow:wxWindow() | wxSizer:wxSizer(), Pos::{R::integer(), C::integer()}.

setItemSpan(This, Index, Span) -> boolean()

Types:

```
This = wxGridBagSizer()
Index = integer()
Span = {RS:::integer(), CS:::integer()}
```

See [external documentation](#).

Also:

setItemSpan(This, Window, Span) -> boolean() when

This::wxGridBagSizer(), Window::wxWindow:wxWindow() | wxSizer:wxSizer(), Span::{RS:::integer(), CS:::integer()}.

destroy(This::wxGridBagSizer()) -> ok

Destroys this object, do not use object again

wxGridCellAttr

Erlang module

See external documentation: **wxGridCellAttr**.

DATA TYPES

wxGridCellAttr()

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

setTextColour(This, ColText) -> ok

Types:

```
This = wxGridCellAttr()  
ColText = wx:wx_colour()
```

See [external documentation](#).

setBackgroundColour(This, ColBack) -> ok

Types:

```
This = wxGridCellAttr()  
ColBack = wx:wx_colour()
```

See [external documentation](#).

setFont(This, Font) -> ok

Types:

```
This = wxGridCellAttr()  
Font = wxFont:wxFont()
```

See [external documentation](#).

setAlignment(This, HAlign, VAlign) -> ok

Types:

```
This = wxGridCellAttr()  
HAlign = integer()  
VAlign = integer()
```

See [external documentation](#).

setReadOnly(This) -> ok

Types:

```
This = wxGridCellAttr()
```

Equivalent to *setReadOnly(This, [])*.

setReadOnly(This, Options::[Option]) -> ok

Types:

```
This = wxGridCellAttr()
Option = {isReadOnly, boolean()}
```

See [external documentation](#).

setRenderer(This, Renderer) -> ok

Types:

```
This = wxGridCellAttr()
Renderer = wxGridCellRenderers:wxGridCellRenderer()
```

See [external documentation](#).

setEditor(This, Editor) -> ok

Types:

```
This = wxGridCellAttr()
Editor = wxGridCellEditors:wxGridCellEditor()
```

See [external documentation](#).

hasTextColour(This) -> boolean()

Types:

```
This = wxGridCellAttr()
```

See [external documentation](#).

hasBackgroundColour(This) -> boolean()

Types:

```
This = wxGridCellAttr()
```

See [external documentation](#).

hasFont(This) -> boolean()

Types:

```
This = wxGridCellAttr()
```

See [external documentation](#).

hasAlignment(This) -> boolean()

Types:

```
This = wxGridCellAttr()
```

See [external documentation](#).

hasRenderer(This) -> boolean()

Types:

```
This = wxGridCellAttr()
```

See [external documentation](#).

wxGridCellAttr

hasEditor(This) -> boolean()

Types:

`This = wxGridCellAttr()`

See [external documentation](#).

getTextColour(This) -> wx:wx_colour4()

Types:

`This = wxGridCellAttr()`

See [external documentation](#).

getBackgroundColour(This) -> wx:wx_colour4()

Types:

`This = wxGridCellAttr()`

See [external documentation](#).

getFont(This) -> wxFont:wxFont()

Types:

`This = wxGridCellAttr()`

See [external documentation](#).

getAlignment(This) -> {HAlign::integer(), VAlign::integer()}

Types:

`This = wxGridCellAttr()`

See [external documentation](#).

getRenderer(This, Grid, Row, Col) -> wxGridCellRenderer:wxGridCellRenderer()

Types:

`This = wxGridCellAttr()`

`Grid = wxGrid:wxGrid()`

`Row = integer()`

`Col = integer()`

See [external documentation](#).

getEditor(This, Grid, Row, Col) -> wxGridCellEditor:wxGridCellEditor()

Types:

`This = wxGridCellAttr()`

`Grid = wxGrid:wxGrid()`

`Row = integer()`

`Col = integer()`

See [external documentation](#).

isReadOnly(This) -> boolean()

Types:

```
This = wxGridCellAttr()
```

See [external documentation](#).

```
setDefAttr(This, DefAttr) -> ok
```

Types:

```
This = wxGridCellAttr()
```

```
DefAttr = wxGridCellAttr()
```

See [external documentation](#).

wxGridCellBoolEditor

Erlang module

See external documentation: **wxGridCellBoolEditor**.

This class is derived (and can use functions) from:
wxGridCellEditor

DATA TYPES

`wxGridCellBoolEditor()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxGridCellBoolEditor()`

See **external documentation**.

`isTrueValue(Value) -> boolean()`

Types:

`Value = unicode:chardata()`

See **external documentation**.

`useStringValues() -> ok`

Equivalent to `useStringValues([])`.

`useStringValues(Options::[Option]) -> ok`

Types:

`Option = {valueTrue, unicode:chardata()} | {valueFalse, unicode:chardata()}`

See **external documentation**.

`destroy(This::wxGridCellBoolEditor()) -> ok`

Destroys this object, do not use object again

wxGridCellBoolRenderer

Erlang module

See external documentation: **wxGridCellBoolRenderer**.

This class is derived (and can use functions) from:
wxGridCellRenderer

DATA TYPES

`wxGridCellBoolRenderer()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxGridCellBoolRenderer()`

See **external documentation**.

`destroy(This::wxGridCellBoolRenderer()) -> ok`

Destroys this object, do not use object again

wxGridCellChoiceEditor

Erlang module

See external documentation: **wxGridCellChoiceEditor**.

This class is derived (and can use functions) from:
wxGridCellEditor

DATA TYPES

`wxGridCellChoiceEditor()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new(Choices) -> wxGridCellChoiceEditor()`

Types:

`Choices = [unicode:chardata()]`

Equivalent to `new(Choices, [])`.

`new(Choices, Options::[Option]) -> wxGridCellChoiceEditor()`

Types:

`Choices = [unicode:chardata()]`

`Option = {allowOthers, boolean()}`

See [external documentation](#).

`setParameters(This, Params) -> ok`

Types:

`This = wxGridCellChoiceEditor()`

`Params = unicode:chardata()`

See [external documentation](#).

`destroy(This::wxGridCellChoiceEditor()) -> ok`

Destroys this object, do not use object again

wxGridCellEditor

Erlang module

See external documentation: **wxGridCellEditor**.

DATA TYPES

`wxGridCellEditor()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`create(This, Parent, Id, EvtHandler) -> ok`

Types:

```
This = wxGridCellEditor()
Parent = wxWindow:wxWindow()
Id = integer()
EvtHandler = wxEvtHandler:wxEvtHandler()
```

See external documentation.

`isCreated(This) -> boolean()`

Types:

```
This = wxGridCellEditor()
```

See external documentation.

`setSize(This, Rect) -> ok`

Types:

```
This = wxGridCellEditor()
Rect = {X::integer(), Y::integer(), W::integer(), H::integer()}
```

See external documentation.

`show(This, Show) -> ok`

Types:

```
This = wxGridCellEditor()
Show = boolean()
```

Equivalent to `show(This, Show, [])`.

`show(This, Show, Options:[Option]) -> ok`

Types:

```
This = wxGridCellEditor()
Show = boolean()
Option = {attr, wxGridCellAttr:wxGridCellAttr()}
```

wxGridCellEditor

See [external documentation](#).

`paintBackground(This, RectCell, Attr) -> ok`

Types:

```
This = wxGridCellEditor()
RectCell = {X::integer(), Y::integer(), W::integer(), H::integer()}
Attr = wxGridCellAttr:wxGridCellAttr()
```

This function is deprecated: deprecated function not available in wxWidgets-2.9 and later

See [external documentation](#).

`beginEdit(This, Row, Col, Grid) -> ok`

Types:

```
This = wxGridCellEditor()
Row = integer()
Col = integer()
Grid = wxGrid:wxGrid()
```

See [external documentation](#).

`endEdit(This, Row, Col, Grid) -> boolean()`

Types:

```
This = wxGridCellEditor()
Row = integer()
Col = integer()
Grid = wxGrid:wxGrid()
```

This function is deprecated: deprecated function not available in wxWidgets-2.9 and later

See [external documentation](#).

`reset(This) -> ok`

Types:

```
This = wxGridCellEditor()
```

See [external documentation](#).

`startingKey(This, Event) -> ok`

Types:

```
This = wxGridCellEditor()
Event = wxKeyEvent:wxKeyEvent()
```

See [external documentation](#).

`startingClick(This) -> ok`

Types:

```
This = wxGridCellEditor()
```

See [external documentation](#).

handleReturn(This, Event) -> ok

Types:

This = `wxGridCellEditor()`
Event = `wxKeyEvent:wxKeyEvent()`

See [external documentation](#).

wxGridCellFloatEditor

Erlang module

See external documentation: **wxGridCellFloatEditor**.

This class is derived (and can use functions) from:
wxGridCellEditor

DATA TYPES

`wxGridCellFloatEditor()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxGridCellFloatEditor()`

Equivalent to `new([])`.

`new(Options :: [Option]) -> wxGridCellFloatEditor()`

Types:

`Option = {width, integer()} | {precision, integer()}`

See **external documentation**.

`setParameters(This, Params) -> ok`

Types:

`This = wxGridCellFloatEditor()`
`Params = unicode:chardata()`

See **external documentation**.

`destroy(This :: wxGridCellFloatEditor()) -> ok`

Destroys this object, do not use object again

wxGridCellFloatRenderer

Erlang module

See external documentation: **wxGridCellFloatRenderer**.

This class is derived (and can use functions) from:

wxGridCellStringRenderer

wxGridCellRenderer

DATA TYPES

`wxGridCellFloatRenderer()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxGridCellFloatRenderer()`

Equivalent to `new([])`.

`new(Options :: [Option]) -> wxGridCellFloatRenderer()`

Types:

`Option = {width, integer()} | {precision, integer()}`

See external documentation.

`getPrecision(This) -> integer()`

Types:

`This = wxGridCellFloatRenderer()`

See external documentation.

`getWidth(This) -> integer()`

Types:

`This = wxGridCellFloatRenderer()`

See external documentation.

`setParameters(This, Params) -> ok`

Types:

`This = wxGridCellFloatRenderer()`

`Params = unicode:chardata()`

See external documentation.

`setPrecision(This, Precision) -> ok`

Types:

`This = wxGridCellFloatRenderer()`

wxGridCellFloatRenderer

Precision = integer()

See [external documentation](#).

setWidth(This, Width) -> ok

Types:

This = *wxGridCellFloatRenderer()*

Width = integer()

See [external documentation](#).

destroy(This::wxGridCellFloatRenderer()) -> ok

Destroys this object, do not use object again

wxGridCellNumberEditor

Erlang module

See external documentation: **wxGridCellNumberEditor**.

This class is derived (and can use functions) from:

wxGridCellTextEditor

wxGridCellEditor

DATA TYPES

`wxGridCellNumberEditor()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxGridCellNumberEditor()`

Equivalent to `new([])`.

`new(Options :: [Option]) -> wxGridCellNumberEditor()`

Types:

`Option = {min, integer()} | {max, integer()}`

See **external documentation**.

`getValue(This) -> unicode:charlist()`

Types:

`This = wxGridCellNumberEditor()`

See **external documentation**.

`setParameters(This, Params) -> ok`

Types:

`This = wxGridCellNumberEditor()`

`Params = unicode:chardata()`

See **external documentation**.

`destroy(This :: wxGridCellNumberEditor()) -> ok`

Destroys this object, do not use object again

wxGridCellNumberRenderer

Erlang module

See external documentation: **wxGridCellNumberRenderer**.

This class is derived (and can use functions) from:

wxGridCellStringRenderer

wxGridCellRenderer

DATA TYPES

`wxGridCellNumberRenderer()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxGridCellNumberRenderer()`

See **external documentation**.

`destroy(This :: wxGridCellNumberRenderer()) -> ok`

Destroys this object, do not use object again

wxGridCellRenderer

Erlang module

See external documentation: **wxGridCellRenderer**.

DATA TYPES

`wxGridCellRenderer()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`draw(This, Grid, Attr, Dc, Rect, Row, Col, IsSelected) -> ok`

Types:

```
This = wxGridCellRenderer()
Grid = wxGrid:wxGrid()
Attr = wxGridCellAttr:wxGridCellAttr()
Dc = wxDC:wxDC()
Rect = {X::integer(), Y::integer(), W::integer(), H::integer()}
Row = integer()
Col = integer()
IsSelected = boolean()
```

See external documentation.

`getBestSize(This, Grid, Attr, Dc, Row, Col) -> {W::integer(), H::integer()}`

Types:

```
This = wxGridCellRenderer()
Grid = wxGrid:wxGrid()
Attr = wxGridCellAttr:wxGridCellAttr()
Dc = wxDC:wxDC()
Row = integer()
Col = integer()
```

See external documentation.

wxGridCellStringRenderer

Erlang module

See external documentation: **wxGridCellStringRenderer**.

This class is derived (and can use functions) from:
wxGridCellRenderer

DATA TYPES

`wxGridCellStringRenderer()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxGridCellStringRenderer()`

See **external documentation**.

`destroy(This :: wxGridCellStringRenderer()) -> ok`

Destroys this object, do not use object again

wxGridCellTextEditor

Erlang module

See external documentation: **wxGridCellTextEditor**.

This class is derived (and can use functions) from:
wxGridCellEditor

DATA TYPES

`wxGridCellTextEditor()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxGridCellTextEditor()`

See **external documentation**.

`setParameters(This, Params) -> ok`

Types:

```
  This = wxGridCellTextEditor()
  Params = unicode:chardata()
```

See **external documentation**.

`destroy(This::wxGridCellTextEditor()) -> ok`

Destroys this object, do not use object again

wxGridEvent

Erlang module

See external documentation: **wxGridEvent**.

Use *wxEvtHandler:connect/3* with EventType:

`grid_cell_left_click, grid_cell_right_click, grid_cell_left_dclick, grid_cell_right_dclick,
grid_label_left_click, grid_label_right_click, grid_label_left_dclick, grid_label_right_dclick,
grid_row_size, grid_col_size, grid_range_select, grid_cell_change, grid_select_cell, grid_editor_shown,
grid_editor_hidden, grid_editor_created, grid_cell_begin_drag`

See also the message variant `#wxGrid{}` event record type.

This class is derived (and can use functions) from:

wxNotifyEvent
wxCommandEvent
wxEvent

DATA TYPES

`wxGridEvent()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`altDown(This) -> boolean()`

Types:

`This = wxGridEvent()`

See **external documentation**.

`controlDown(This) -> boolean()`

Types:

`This = wxGridEvent()`

See **external documentation**.

`getCol(This) -> integer()`

Types:

`This = wxGridEvent()`

See **external documentation**.

`getPosition(This) -> {X::integer(), Y::integer()}`

Types:

`This = wxGridEvent()`

See **external documentation**.

getRow(This) -> integer()

Types:

This = wxGridEvent()

See **external documentation**.

metaDown(This) -> boolean()

Types:

This = wxGridEvent()

See **external documentation**.

selecting(This) -> boolean()

Types:

This = wxGridEvent()

See **external documentation**.

shiftDown(This) -> boolean()

Types:

This = wxGridEvent()

See **external documentation**.

wxGridSizer

Erlang module

See external documentation: **wxGridSizer**.

This class is derived (and can use functions) from:
wxSizer

DATA TYPES

`wxGridSizer()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new(Cols) -> wxGridSizer()`

Types:

`Cols = integer()`

Equivalent to `new(Cols, [])`.

`new(Cols, Options:[Option]) -> wxGridSizer()`

Types:

`Cols = integer()`

`Option = {vgap, integer()} | {hgap, integer()}`

See [external documentation](#).

`new(Rows, Cols, Vgap, Hgap) -> wxGridSizer()`

Types:

`Rows = integer()`

`Cols = integer()`

`Vgap = integer()`

`Hgap = integer()`

See [external documentation](#).

`getCols(This) -> integer()`

Types:

`This = wxGridSizer()`

See [external documentation](#).

`getHGap(This) -> integer()`

Types:

`This = wxGridSizer()`

See [external documentation](#).

getRows(This) -> integer()

Types:

This = wxGridSizer()

See [external documentation](#).

getVGap(This) -> integer()

Types:

This = wxGridSizer()

See [external documentation](#).

setCols(This, Cols) -> ok

Types:

This = wxGridSizer()

Cols = integer()

See [external documentation](#).

setHGap(This, Gap) -> ok

Types:

This = wxGridSizer()

Gap = integer()

See [external documentation](#).

setRows(This, Rows) -> ok

Types:

This = wxGridSizer()

Rows = integer()

See [external documentation](#).

setVGap(This, Gap) -> ok

Types:

This = wxGridSizer()

Gap = integer()

See [external documentation](#).

destroy(This::wxGridSizer()) -> ok

Destroys this object, do not use object again

wxHelpEvent

Erlang module

See external documentation: **wxHelpEvent**.

Use *wxEvtHandler:connect/3* with EventType:

help, detailed_help

See also the message variant `#wxHelp{}` event record type.

This class is derived (and can use functions) from:

wxEvent

DATA TYPES

`wxHelpEvent()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`getOrigin(This) -> wx:wx_enum()`

Types:

`This = wxHelpEvent()`

See **external documentation**.

Res = ?wxHelpEvent_Origin_Unknown | ?wxHelpEvent_Origin_Keyboard | ?wxHelpEvent_Origin_HelpButton

`getPosition(This) -> {X::integer(), Y::integer()}`

Types:

`This = wxHelpEvent()`

See **external documentation**.

`setOrigin(This, Origin) -> ok`

Types:

`This = wxHelpEvent()`

`Origin = wx:wx_enum()`

See **external documentation**.

Origin = ?wxHelpEvent_Origin_Unknown | ?wxHelpEvent_Origin_Keyboard | ?wxHelpEvent_Origin_HelpButton

`setPosition(This, Pos) -> ok`

Types:

`This = wxHelpEvent()`

`Pos = {X::integer(), Y::integer()}`

See **external documentation**.

wxHtmlEasyPrinting

Erlang module

See external documentation: **wxHtmlEasyPrinting**.

DATA TYPES

`wxHtmlEasyPrinting()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxHtmlEasyPrinting()`

Equivalent to `new([])`.

`new(Options :: [Option]) -> wxHtmlEasyPrinting()`

Types:

`Option = {name, unicode:chardata()} | {parentWindow, wxWindow:wxWindow()}`

See **external documentation**.

`getPrintData(This) -> wxPrintData:wxPrintData()`

Types:

`This = wxHtmlEasyPrinting()`

See **external documentation**.

`getPageSetupData(This) -> wxPageSetupDialogData:wxPageSetupDialogData()`

Types:

`This = wxHtmlEasyPrinting()`

See **external documentation**.

`previewFile(This, Htmlfile) -> boolean()`

Types:

`This = wxHtmlEasyPrinting()`

`Htmlfile = unicode:chardata()`

See **external documentation**.

`previewText(This, Htmltext) -> boolean()`

Types:

`This = wxHtmlEasyPrinting()`

`Htmltext = unicode:chardata()`

Equivalent to `previewText(This, Htmltext, [])`.

wxHtmlEasyPrinting

previewText(This, Htmltext, Options::[Option]) -> boolean()

Types:

```
This = wxHtmlEasyPrinting()  
Htmltext = unicode:chardata()  
Option = {basepath, unicode:chardata()}
```

See [external documentation](#).

printFile(This, Htmlfile) -> boolean()

Types:

```
This = wxHtmlEasyPrinting()  
Htmlfile = unicode:chardata()
```

See [external documentation](#).

printText(This, Htmltext) -> boolean()

Types:

```
This = wxHtmlEasyPrinting()  
Htmltext = unicode:chardata()
```

Equivalent to *printText(This, Htmltext, [])*.

printText(This, Htmltext, Options::[Option]) -> boolean()

Types:

```
This = wxHtmlEasyPrinting()  
Htmltext = unicode:chardata()  
Option = {basepath, unicode:chardata()}
```

See [external documentation](#).

pageSetup(This) -> ok

Types:

```
This = wxHtmlEasyPrinting()
```

See [external documentation](#).

setFonts(This, Normal_face, Fixed_face) -> ok

Types:

```
This = wxHtmlEasyPrinting()  
Normal_face = unicode:chardata()  
Fixed_face = unicode:chardata()
```

Equivalent to *setFonts(This, Normal_face, Fixed_face, [])*.

setFonts(This, Normal_face, Fixed_face, Options::[Option]) -> ok

Types:

```
This = wxHtmlEasyPrinting()  
Normal_face = unicode:chardata()  
Fixed_face = unicode:chardata()
```

```
Option = {sizes, [integer()]}
```

See [external documentation](#).

`setHeader(This, Header) -> ok`

Types:

```
This = wxHtmlEasyPrinting()  
Header = unicode:chardata()
```

Equivalent to `setHeader(This, Header, [])`.

`setHeader(This, Header, Options:[Option]) -> ok`

Types:

```
This = wxHtmlEasyPrinting()  
Header = unicode:chardata()  
Option = {pg, integer()}
```

See [external documentation](#).

`setFooter(This, Footer) -> ok`

Types:

```
This = wxHtmlEasyPrinting()  
Footer = unicode:chardata()
```

Equivalent to `setFooter(This, Footer, [])`.

`setFooter(This, Footer, Options:[Option]) -> ok`

Types:

```
This = wxHtmlEasyPrinting()  
Footer = unicode:chardata()  
Option = {pg, integer()}
```

See [external documentation](#).

`destroy(This::wxHtmlEasyPrinting()) -> ok`

Destroys this object, do not use object again

wxHtmlLinkEvent

Erlang module

See external documentation: **wxHtmlLinkEvent**.

Use *wxEvtHandler:connect/3* with EventType:

command_html_link_clicked

See also the message variant `#wxHtmlLink{}` event record type.

This class is derived (and can use functions) from:

wxCommandEvent

wxEvent

DATA TYPES

`wxHtmlLinkEvent()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`getLinkInfo(This) -> wx:wx_wxHtmlLinkInfo()`

Types:

`This = wxHtmlLinkEvent()`

See **external documentation**.

wxHtmlWindow

Erlang module

See external documentation: **wxHtmlWindow**.

This class is derived (and can use functions) from:

wxScrolledWindow

wxPanel

wxWindow

wxEvtHandler

DATA TYPES

`wxHtmlWindow()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxHtmlWindow()`

See **external documentation**.

`new(Parent) -> wxHtmlWindow()`

Types:

`Parent = wxWindow:wxWindow()`

Equivalent to `new(Parent, [])`.

`new(Parent, Options:[Option]) -> wxHtmlWindow()`

Types:

`Parent = wxWindow:wxWindow()`

`Option = {id, integer()} | {pos, {X::integer(), Y::integer()}} | {size, {W::integer(), H::integer()}} | {style, integer()}`

See **external documentation**.

`appendToPage(This, Source) -> boolean()`

Types:

`This = wxHtmlWindow()`

`Source = unicode:chardata()`

See **external documentation**.

`getOpenedAnchor(This) -> unicode:charlist()`

Types:

`This = wxHtmlWindow()`

See **external documentation**.

wxHtmlWindow

getOpenedPage(This) -> unicode:charlist()

Types:

This = wxHtmlWindow()

See [external documentation](#).

getOpenedPageTitle(This) -> unicode:charlist()

Types:

This = wxHtmlWindow()

See [external documentation](#).

getRelatedFrame(This) -> wxFrame:wxFrame()

Types:

This = wxHtmlWindow()

See [external documentation](#).

historyBack(This) -> boolean()

Types:

This = wxHtmlWindow()

See [external documentation](#).

historyCanBack(This) -> boolean()

Types:

This = wxHtmlWindow()

See [external documentation](#).

historyCanForward(This) -> boolean()

Types:

This = wxHtmlWindow()

See [external documentation](#).

historyClear(This) -> ok

Types:

This = wxHtmlWindow()

See [external documentation](#).

historyForward(This) -> boolean()

Types:

This = wxHtmlWindow()

See [external documentation](#).

loadFile(This, Filename) -> boolean()

Types:

This = wxHtmlWindow()

```
Filename = unicode:chardata()
```

See [external documentation](#).

```
loadPage(This, Location) -> boolean()
```

Types:

```
This = wxHtmlWindow()
```

```
Location = unicode:chardata()
```

See [external documentation](#).

```
selectAll(This) -> ok
```

Types:

```
This = wxHtmlWindow()
```

See [external documentation](#).

```
selectionToText(This) -> unicode:charlist()
```

Types:

```
This = wxHtmlWindow()
```

See [external documentation](#).

```
selectLine(This, Pos) -> ok
```

Types:

```
This = wxHtmlWindow()
```

```
Pos = {X::integer(), Y::integer()}
```

See [external documentation](#).

```
selectWord(This, Pos) -> ok
```

Types:

```
This = wxHtmlWindow()
```

```
Pos = {X::integer(), Y::integer()}
```

See [external documentation](#).

```
setBorders(This, B) -> ok
```

Types:

```
This = wxHtmlWindow()
```

```
B = integer()
```

See [external documentation](#).

```
setFonts(This, Normal_face, Fixed_face) -> ok
```

Types:

```
This = wxHtmlWindow()
```

```
Normal_face = unicode:chardata()
```

```
Fixed_face = unicode:chardata()
```

Equivalent to `setFonts(This, Normal_face, Fixed_face, []).`

wxHtmlWindow

setFonts(This, Normal_face, Fixed_face, Options::[Option]) -> ok
Types:

```
This = wxHtmlWindow()
Normal_face = unicode:chardata()
Fixed_face = unicode:chardata()
Option = {sizes, integer()}
```

See [external documentation](#).

setPage(This, Source) -> boolean()

Types:

```
This = wxHtmlWindow()
Source = unicode:chardata()
```

See [external documentation](#).

setRelatedFrame(This, Frame, Format) -> ok

Types:

```
This = wxHtmlWindow()
Frame = wxFrame:wxFrame()
Format = unicode:chardata()
```

See [external documentation](#).

setRelatedStatusBar(This, Bar) -> ok

Types:

```
This = wxHtmlWindow()
Bar = integer()
```

See [external documentation](#).

toText(This) -> unicode:charlist()

Types:

```
This = wxHtmlWindow()
```

See [external documentation](#).

destroy(This::wxHtmlWindow()) -> ok

Destroys this object, do not use object again

wxIcon

Erlang module

See external documentation: **wxIcon**.

This class is derived (and can use functions) from:
wxBitmap

DATA TYPES

`wxIcon()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxIcon()`

See external documentation.

`new(Filename) -> wxIcon()`

Types:

`Filename = unicode:chardata()`

See external documentation.

Also:

`new(Loc) -> wxIcon() when`

`Loc::wx:wx_object()`.

Type = ?wxBITMAP_TYPE_INVALID | ?wxBITMAP_TYPE_BMP | ?wxBITMAP_TYPE_BMP_RESOURCE
| ?wxBITMAP_TYPE_RESOURCE | ?wxBITMAP_TYPE_ICO | ?wxBITMAP_TYPE_ICO_RESOURCE
| ?wxBITMAP_TYPE_CUR | ?wxBITMAP_TYPE_CUR_RESOURCE | ?wxBITMAP_TYPE_XBM | ?
wxBITMAP_TYPE_XBM_DATA | ?wxBITMAP_TYPE_XPM | ?wxBITMAP_TYPE_XPM_DATA | ?
wxBITMAP_TYPE_TIF | ?wxBITMAP_TYPE_TIF_RESOURCE | ?wxBITMAP_TYPE_GIF | ?
wxBITMAP_TYPE_GIF_RESOURCE | ?wxBITMAP_TYPE_PNG | ?wxBITMAP_TYPE_PNG_RESOURCE
| ?wxBITMAP_TYPE_JPEG | ?wxBITMAP_TYPE_JPEG_RESOURCE | ?wxBITMAP_TYPE_PNM | ?
wxBITMAP_TYPE_PNM_RESOURCE | ?wxBITMAP_TYPE_PCX | ?wxBITMAP_TYPE_PCX_RESOURCE
| ?wxBITMAP_TYPE_PICT | ?wxBITMAP_TYPE_PICT_RESOURCE | ?wxBITMAP_TYPE_ICON | ?
wxBITMAP_TYPE_ICON_RESOURCE | ?wxBITMAP_TYPE_ANI | ?wxBITMAP_TYPE_IFF | ?
wxBITMAP_TYPE_TGA | ?wxBITMAP_TYPE_MACCURSOR | ?
wxBITMAP_TYPE_MACCURSOR_RESOURCE | ?wxBITMAP_TYPE_ANY

`new(Filename, Options::[Option]) -> wxIcon()`

Types:

`Filename = unicode:chardata()`

`Option = {type, wx:wx_enum()} | {desiredWidth, integer()} |
{desiredHeight, integer()}`

See external documentation.

wxIcon

```
Type = ?wxBITMAP_TYPE_INVALID | ?wxBITMAP_TYPE_BMP | ?wxBITMAP_TYPE_BMP_RESOURCE
| ?wxBITMAP_TYPE_RESOURCE | ?wxBITMAP_TYPE_ICO | ?wxBITMAP_TYPE_ICO_RESOURCE
| ?wxBITMAP_TYPE_CUR | ?wxBITMAP_TYPE_CUR_RESOURCE | ?wxBITMAP_TYPE_XBM | ?
wxBITMAP_TYPE_XBM_DATA | ?wxBITMAP_TYPE_XPM | ?wxBITMAP_TYPE_XPM_DATA | ?
wxBITMAP_TYPE_TIF | ?wxBITMAP_TYPE_TIF_RESOURCE | ?wxBITMAP_TYPE_GIF | ?
wxBITMAP_TYPE_GIF_RESOURCE | ?wxBITMAP_TYPE_PNG | ?wxBITMAP_TYPE_PNG_RESOURCE
| ?wxBITMAP_TYPE_JPEG | ?wxBITMAP_TYPE_JPEG_RESOURCE | ?wxBITMAP_TYPE_PNM | ?
wxBITMAP_TYPE_PNM_RESOURCE | ?wxBITMAP_TYPE_PCX | ?wxBITMAP_TYPE_PCX_RESOURCE
| ?wxBITMAP_TYPE_PICT | ?wxBITMAP_TYPE_PICT_RESOURCE | ?wxBITMAP_TYPE_ICON | ?
wxBITMAP_TYPE_ICON_RESOURCE | ?wxBITMAP_TYPE_ANI | ?wxBITMAP_TYPE_IFF | ?
wxBITMAP_TYPE_TGA | ?wxBITMAP_TYPE_MACCURSOR | ?
wxBITMAP_TYPE_MACCURSOR_RESOURCE | ?wxBITMAP_TYPE_ANY
```

copyFromBitmap(This, Bmp) -> ok

Types:

```
This = wxIcon()
Bmp = wxBitmap:wxBitmap()
```

See [external documentation](#).

destroy(This::wxIcon()) -> ok

Destroys this object, do not use object again

wxIconBundle

Erlang module

See external documentation: **wxIconBundle**.

DATA TYPES

`wxIconBundle()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxIconBundle()`

See **external documentation**.

`new(Ic) -> wxIconBundle()`

Types:

`Ic = wxIconBundle() | wxIcon:wxIcon()`

See **external documentation**.

`new(File, Type) -> wxIconBundle()`

Types:

`File = unicode:chardata()`
`Type = integer()`

See **external documentation**.

`addIcon(This, Icon) -> ok`

Types:

`This = wxIconBundle()`
`Icon = wxIcon:wxIcon()`

See **external documentation**.

`addIcon(This, File, Type) -> ok`

Types:

`This = wxIconBundle()`
`File = unicode:chardata()`
`Type = integer()`

See **external documentation**.

`getIcon(This) -> wxIcon:wxIcon()`

Types:

`This = wxIconBundle()`

wxIconBundle

Equivalent to `getIcon(This, []).`

`getIcon(This, Options::[Option]) -> wxIcon:wxIcon()`

Types:

```
This = wxIconBundle()  
Option = {size, integer()}
```

See [external documentation](#).

Also:

`getIcon(This, Size) -> wxIcon:wxIcon()` when
This::wxIconBundle(), Size::{W::integer(), H::integer()}.

`destroy(This::wxIconBundle()) -> ok`

Destroys this object, do not use object again

wxIconizeEvent

Erlang module

See external documentation: **wxIconizeEvent**.

Use *wxEvtHandler:connect/3* with EventType:

iconize

See also the message variant `#wxIconize{}` event record type.

This class is derived (and can use functions) from:

wxEvent

DATA TYPES

`wxIconizeEvent()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`iconized(This) -> boolean()`

Types:

`This = wxIconizeEvent()`

See **external documentation**.

wxIdleEvent

Erlang module

See external documentation: **wxIdleEvent**.

Use *wxEvtHandler:connect/3* with EventType:

idle

See also the message variant `#wxIdle{}` event record type.

This class is derived (and can use functions) from:

wxEvent

DATA TYPES

`wxIdleEvent()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`canSend(Win) -> boolean()`

Types:

`Win = wxWindow:wxWindow()`

This function is deprecated: deprecated function not available in wxWidgets-2.9 and later

See [external documentation](#).

`getMode() -> wx:wx_enum()`

See [external documentation](#).

Res = ?wxIDLE_PROCESS_ALL | ?wxIDLE_PROCESS_SPECIFIED

`requestMore(This) -> ok`

Types:

`This = wxIdleEvent()`

Equivalent to `requestMore(This, [])`.

`requestMore(This, Options:[Option]) -> ok`

Types:

`This = wxIdleEvent()`

`Option = {needMore, boolean()}`

See [external documentation](#).

`moreRequested(This) -> boolean()`

Types:

`This = wxIdleEvent()`

See [external documentation](#).

`setMode(Mode) -> ok`

Types:

`Mode = wx:wx_enum()`

See [external documentation](#).

Mode = ?wxIDLE_PROCESS_ALL | ?wxIDLE_PROCESS_SPECIFIED

wxImage

Erlang module

See external documentation: **wxImage**.

All (default) image handlers are initialized.

DATA TYPES

`wxImage()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxImage()`

See **external documentation**.

`new(Name) -> wxImage()`

Types:

`Name = unicode:chardata()`

Equivalent to `new(Name, [])`.

`new(Width, Height) -> wxImage()`

Types:

`Width = integer()`

`Height = integer()`

See **external documentation**.

Also:

`new(Name, [Option]) -> wxImage() when`

`Name::unicode:chardata(),`

`Option :: {'type', integer()}`

`| {'index', integer()}.`

`new(Width, Height, Data) -> wxImage()`

Types:

`Width = integer()`

`Height = integer()`

`Data = binary()`

See **external documentation**.

Also:

`new(Width, Height, [Option]) -> wxImage() when`

`Width::integer(), Height::integer(),`

`Option :: {'clear', boolean()};`

`(Name, Mimetype, [Option]) -> wxImage() when`

Name::unicode:chardata(), Mimetype::unicode:chardata(),
Option :: {'index', integer()}.

`new(Width, Height, Data, Alpha) -> wxImage()`

Types:

```
Width = integer()
Height = integer()
Data = binary()
Alpha = binary()
```

See [external documentation](#).

Also:

`new(Width, Height, Data, [Option]) -> wxImage()` when
Width::integer(), Height::integer(), Data::binary(),
Option :: {'static_data', boolean()}.

`new(Width, Height, Data, Alpha, Options:::[Option]) -> wxImage()`

Types:

```
Width = integer()
Height = integer()
Data = binary()
Alpha = binary()
Option = {static_data, boolean()}
```

See [external documentation](#).

`blur(This, Radius) -> wxImage()`

Types:

```
This = wxImage()
Radius = integer()
```

See [external documentation](#).

`blurHorizontal(This, Radius) -> wxImage()`

Types:

```
This = wxImage()
Radius = integer()
```

See [external documentation](#).

`blurVertical(This, Radius) -> wxImage()`

Types:

```
This = wxImage()
Radius = integer()
```

See [external documentation](#).

`convertAlphaToMask(This) -> boolean()`

Types:

wxImage

This = wxImage()

Equivalent to *convertAlphaToMask(This, [])*.

convertAlphaToMask(This, Options::[Option]) -> boolean()

Types:

This = wxImage()

Option = {threshold, integer()}

See [external documentation](#).

convertToGreyscale(This) -> wxImage()

Types:

This = wxImage()

Equivalent to *convertToGreyscale(This, [])*.

convertToGreyscale(This, Options::[Option]) -> wxImage()

Types:

This = wxImage()

Option = {lr, number()} | {lg, number()} | {lb, number()}

See [external documentation](#).

convertToMono(This, R, G, B) -> wxImage()

Types:

This = wxImage()

R = integer()

G = integer()

B = integer()

See [external documentation](#).

copy(This) -> wxImage()

Types:

This = wxImage()

See [external documentation](#).

create(This, Width, Height) -> boolean()

Types:

This = wxImage()

Width = integer()

Height = integer()

Equivalent to *create(This, Width, Height, [])*.

create(This, Width, Height, Data) -> boolean()

Types:

This = wxImage()

```
Width = integer()
Height = integer()
Data = binary()
```

See [external documentation](#).

Also:

`create(This, Width, Height, [Option]) -> boolean() when`
`This::wxImage(), Width::integer(), Height::integer(),`
`Option :: {'clear', boolean()}.`

`create(This, Width, Height, Data, Alpha) -> boolean()`

Types:

```
This = wxImage()
Width = integer()
Height = integer()
Data = binary()
Alpha = binary()
```

See [external documentation](#).

Also:

`create(This, Width, Height, Data, [Option]) -> boolean() when`
`This::wxImage(), Width::integer(), Height::integer(), Data::binary(),`
`Option :: {'static_data', boolean()}.`

`create(This, Width, Height, Data, Alpha, Options::[Option]) -> boolean()`

Types:

```
This = wxImage()
Width = integer()
Height = integer()
Data = binary()
Alpha = binary()
Option = {static_data, boolean()}
```

See [external documentation](#).

`Destroy(This) -> ok`

Types:

```
This = wxImage()
```

See [external documentation](#).

`findFirstUnusedColour(This) -> Result`

Types:

```
Result = {Res::boolean(), R::integer(), G::integer(), B::integer()}
This = wxImage()
```

Equivalent to `findFirstUnusedColour(This, [])`.

wxImage

findFirstUnusedColour(This, Options::[Option]) -> Result

Types:

```
Result = {Res::boolean(), R::integer(), G::integer(), B::integer()}
This = wxImage()
Option = {startR, integer()} | {startG, integer()} | {startB, integer()}
```

See [external documentation](#).

getImageExtWildcard() -> unicode:charlist()

See [external documentation](#).

getAlpha(This) -> binary()

Types:

```
This = wxImage()
```

See [external documentation](#).

getAlpha(This, X, Y) -> integer()

Types:

```
This = wxImage()
X = integer()
Y = integer()
```

See [external documentation](#).

getBlue(This, X, Y) -> integer()

Types:

```
This = wxImage()
X = integer()
Y = integer()
```

See [external documentation](#).

getData(This) -> binary()

Types:

```
This = wxImage()
```

See [external documentation](#).

getGreen(This, X, Y) -> integer()

Types:

```
This = wxImage()
X = integer()
Y = integer()
```

See [external documentation](#).

getImageCount(Name) -> integer()

Types:

```
Name = unicode:chardata()
```

Equivalent to `getImageCount(Name, [])`.

`getImageCount(Name, Options::[Option]) -> integer()`

Types:

```
Name = unicode:chardata()
Option = {type, wx:wx_enum()}
```

See [external documentation](#).

```
Type = ?wxBITMAP_TYPE_INVALID | ?wxBITMAP_TYPE_BMP | ?wxBITMAP_TYPE_BMP_RESOURCE
| ?wxBITMAP_TYPE_RESOURCE | ?wxBITMAP_TYPE_ICO | ?wxBITMAP_TYPE_ICO_RESOURCE
| ?wxBITMAP_TYPE_CUR | ?wxBITMAP_TYPE_CUR_RESOURCE | ?wxBITMAP_TYPE_XBM | ?
wxBITMAP_TYPE_XBM_DATA | ?wxBITMAP_TYPE_XPM | ?wxBITMAP_TYPE_XPM_DATA | ?
wxBITMAP_TYPE_TIF | ?wxBITMAP_TYPE_TIF_RESOURCE | ?wxBITMAP_TYPE_GIF | ?
wxBITMAP_TYPE_GIF_RESOURCE | ?wxBITMAP_TYPE_PNG | ?wxBITMAP_TYPE_PNG_RESOURCE
| ?wxBITMAP_TYPE_JPEG | ?wxBITMAP_TYPE_JPEG_RESOURCE | ?wxBITMAP_TYPE_PNM | ?
wxBITMAP_TYPE_PNM_RESOURCE | ?wxBITMAP_TYPE_PCX | ?wxBITMAP_TYPE_PCX_RESOURCE
| ?wxBITMAP_TYPE_PICT | ?wxBITMAP_TYPE_PICT_RESOURCE | ?wxBITMAP_TYPE_ICON | ?
wxBITMAP_TYPE_ICON_RESOURCE | ?wxBITMAP_TYPE_ANI | ?wxBITMAP_TYPE_IFF | ?
wxBITMAP_TYPE_TGA | ?wxBITMAP_TYPE_MACCURSOR | ?
wxBITMAP_TYPE_MACCURSOR_RESOURCE | ?wxBITMAP_TYPE_ANY
```

`getHeight(This) -> integer()`

Types:

```
This = wxImage()
```

See [external documentation](#).

`getMaskBlue(This) -> integer()`

Types:

```
This = wxImage()
```

See [external documentation](#).

`getMaskGreen(This) -> integer()`

Types:

```
This = wxImage()
```

See [external documentation](#).

`getMaskRed(This) -> integer()`

Types:

```
This = wxImage()
```

See [external documentation](#).

`getOrFindMaskColour(This) -> Result`

Types:

```
Result = {Res::boolean(), R::integer(), G::integer(), B::integer()}
This = wxImage()
```

wxImage

See [external documentation](#).

`getPalette(This) -> wxPalette:wxPalette()`

Types:

`This = wxImage()`

See [external documentation](#).

`getRed(This, X, Y) -> integer()`

Types:

`This = wxImage()`

`X = integer()`

`Y = integer()`

See [external documentation](#).

`getSubImage(This, Rect) -> wxImage()`

Types:

`This = wxImage()`

`Rect = {X::integer(), Y::integer(), W::integer(), H::integer()}`

See [external documentation](#).

`getWidth(This) -> integer()`

Types:

`This = wxImage()`

See [external documentation](#).

`hasAlpha(This) -> boolean()`

Types:

`This = wxImage()`

See [external documentation](#).

`hasMask(This) -> boolean()`

Types:

`This = wxImage()`

See [external documentation](#).

`getOption(This, Name) -> unicode:charlist()`

Types:

`This = wxImage()`

`Name = unicode:chardata()`

See [external documentation](#).

`getOptionInt(This, Name) -> integer()`

Types:

```
This = wxImage()
Name = unicode:chardata()
```

See [external documentation](#).

`hasOption(This, Name) -> boolean()`

Types:

```
This = wxImage()
Name = unicode:chardata()
```

See [external documentation](#).

`initAlpha(This) -> ok`

Types:

```
This = wxImage()
```

See [external documentation](#).

`initStandardHandlers() -> ok`

See [external documentation](#).

`isTransparent(This, X, Y) -> boolean()`

Types:

```
This = wxImage()
X = integer()
Y = integer()
```

Equivalent to `isTransparent(This, X, Y, [])`.

`isTransparent(This, X, Y, Options::[Option]) -> boolean()`

Types:

```
This = wxImage()
X = integer()
Y = integer()
Option = {threshold, integer()}
```

See [external documentation](#).

`loadFile(This, Name) -> boolean()`

Types:

```
This = wxImage()
Name = unicode:chardata()
```

Equivalent to `loadFile(This, Name, [])`.

`loadFile(This, Name, Options::[Option]) -> boolean()`

Types:

```
This = wxImage()
Name = unicode:chardata()
```

wxImage

Option = {type, integer()} | {index, integer()}

See [external documentation](#).

loadFile(This, Name, Mimetype, Options:[Option]) -> boolean()

Types:

```
This = wxImage()
Name = unicode:chardata()
Mimetype = unicode:chardata()
Option = {index, integer()}
```

See [external documentation](#).

ok(This) -> boolean()

Types:

```
This = wxImage()
```

See [external documentation](#).

removeHandler(Name) -> boolean()

Types:

```
Name = unicode:chardata()
```

See [external documentation](#).

mirror(This) -> wxImage()

Types:

```
This = wxImage()
```

Equivalent to *mirror(This, [])*.

mirror(This, Options:[Option]) -> wxImage()

Types:

```
This = wxImage()
Option = {horizontally, boolean()}
```

See [external documentation](#).

replace(This, R1, G1, B1, R2, G2, B2) -> ok

Types:

```
This = wxImage()
R1 = integer()
G1 = integer()
B1 = integer()
R2 = integer()
G2 = integer()
B2 = integer()
```

See [external documentation](#).

```
rescale(This, Width, Height) -> wxImage()
```

Types:

```
This = wxImage()
Width = integer()
Height = integer()
```

Equivalent to *rescale(This, Width, Height, [])*.

```
rescale(This, Width, Height, Options:[Option]) -> wxImage()
```

Types:

```
This = wxImage()
Width = integer()
Height = integer()
Option = {quality, wx:wx_enum()}
```

See [external documentation](#).

Quality = integer

```
resize(This, Size, Pos) -> wxImage()
```

Types:

```
This = wxImage()
Size = {W::integer(), H::integer()}
Pos = {X::integer(), Y::integer()}
```

Equivalent to *resize(This, Size, Pos, [])*.

```
resize(This, Size, Pos, Options:[Option]) -> wxImage()
```

Types:

```
This = wxImage()
Size = {W::integer(), H::integer()}
Pos = {X::integer(), Y::integer()}
Option = {r, integer()} | {g, integer()} | {b, integer()}
```

See [external documentation](#).

```
rotate(This, Angle, Centre_of_rotation) -> wxImage()
```

Types:

```
This = wxImage()
Angle = number()
Centre_of_rotation = {X::integer(), Y::integer()}
```

Equivalent to *rotate(This, Angle, Centre_of_rotation, [])*.

```
rotate(This, Angle, Centre_of_rotation, Options:[Option]) -> wxImage()
```

Types:

```
This = wxImage()
Angle = number()
Centre_of_rotation = {X::integer(), Y::integer()}
```

wxImage

```
Option = {interpolating, boolean()} | {offset_after_rotation,  
{X::integer(), Y::integer()}}
```

See [external documentation](#).

`rotateHue(This, Angle) -> ok`

Types:

```
This = wxImage()  
Angle = number()
```

See [external documentation](#).

`rotate90(This) -> wxImage()`

Types:

```
This = wxImage()
```

Equivalent to `rotate90(This, []).`

`rotate90(This, Options:[Option]) -> wxImage()`

Types:

```
This = wxImage()  
Option = {clockwise, boolean()}
```

See [external documentation](#).

`saveFile(This, Name) -> boolean()`

Types:

```
This = wxImage()  
Name = unicode:chardata()
```

See [external documentation](#).

`saveFile(This, Name, Type) -> boolean()`

Types:

```
This = wxImage()  
Name = unicode:chardata()  
Type = integer()
```

See [external documentation](#).

Also:

`saveFile(This, Name, Mimetype) -> boolean()` when
`This::wxImage(), Name::unicode:chardata(), Mimetype::unicode:chardata().`

`scale(This, Width, Height) -> wxImage()`

Types:

```
This = wxImage()  
Width = integer()  
Height = integer()
```

Equivalent to `scale(This, Width, Height, []).`

```
scale(This, Width, Height, Options::[Option]) -> wxImage()
```

Types:

```
This = wxImage()
Width = integer()
Height = integer()
Option = {quality, wx:wx_enum()}
```

See [external documentation](#).

Quality = integer

```
size(This, Size, Pos) -> wxImage()
```

Types:

```
This = wxImage()
Size = {W::integer(), H::integer()}
Pos = {X::integer(), Y::integer()}
```

Equivalent to `size(This, Size, Pos, [])`.

```
size(This, Size, Pos, Options::[Option]) -> wxImage()
```

Types:

```
This = wxImage()
Size = {W::integer(), H::integer()}
Pos = {X::integer(), Y::integer()}
Option = {r, integer()} | {g, integer()} | {b, integer()}
```

See [external documentation](#).

```
setAlpha(This, Alpha) -> ok
```

Types:

```
This = wxImage()
Alpha = binary()
```

Equivalent to `setAlpha(This, Alpha, [])`.

```
setAlpha(This, Alpha, Options::[Option]) -> ok
```

Types:

```
This = wxImage()
Alpha = binary()
Option = {static_data, boolean()}
```

See [external documentation](#).

```
setAlpha(This, X, Y, Alpha) -> ok
```

Types:

```
This = wxImage()
X = integer()
Y = integer()
Alpha = integer()
```

wxImage

See [external documentation](#).

`setData(This, Data) -> ok`

Types:

```
This = wxImage()  
Data = binary()
```

Equivalent to `setData(This, Data, []).`

`setData(This, Data, Options:[Option]) -> ok`

Types:

```
This = wxImage()  
Data = binary()  
Option = {static_data, boolean()}
```

See [external documentation](#).

`setData(This, Data, New_width, New_height) -> ok`

Types:

```
This = wxImage()  
Data = binary()  
New_width = integer()  
New_height = integer()
```

Equivalent to `setData(This, Data, New_width, New_height, []).`

`setData(This, Data, New_width, New_height, Options:[Option]) -> ok`

Types:

```
This = wxImage()  
Data = binary()  
New_width = integer()  
New_height = integer()  
Option = {static_data, boolean()}
```

See [external documentation](#).

`setMask(This) -> ok`

Types:

```
This = wxImage()
```

Equivalent to `setMask(This, []).`

`setMask(This, Options:[Option]) -> ok`

Types:

```
This = wxImage()  
Option = {mask, boolean()}
```

See [external documentation](#).

`setMaskColour(This, R, G, B) -> ok`

Types:

```
This = wxImage()
R = integer()
G = integer()
B = integer()
```

See [external documentation](#).

`setMaskFromImage(This, Mask, Mr, Mg, Mb) -> boolean()`

Types:

```
This = wxImage()
Mask = wxImage()
Mr = integer()
Mg = integer()
Mb = integer()
```

See [external documentation](#).

`setOption(This, Name, Value) -> ok`

Types:

```
This = wxImage()
Name = unicode:chardata()
Value = integer()
```

See [external documentation](#).

Also:

`setOption(This, Name, Value) -> 'ok' when`
`This::wxImage(), Name::unicode:chardata(), Value::unicode:chardata().`

`setPalette(This, Palette) -> ok`

Types:

```
This = wxImage()
Palette = wxPalette:wxPalette()
```

See [external documentation](#).

`setRGB(This, Rect, R, G, B) -> ok`

Types:

```
This = wxImage()
Rect = {X::integer(), Y::integer(), W::integer(), H::integer()}
R = integer()
G = integer()
B = integer()
```

See [external documentation](#).

wxImage

`setRGB(This, X, Y, R, G, B) -> ok`

Types:

```
This = wxImage()
X = integer()
Y = integer()
R = integer()
G = integer()
B = integer()
```

See [external documentation](#).

`destroy(This::wxImage()) -> ok`

Destroys this object, do not use object again

wxImageList

Erlang module

See external documentation: **wxImageList**.

DATA TYPES

`wxImageList()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxImageList()`

See **external documentation**.

`new(Width, Height) -> wxImageList()`

Types:

```
Width = integer()  
Height = integer()
```

Equivalent to `new(Width, Height, [])`.

`new(Width, Height, Options:[Option]) -> wxImageList()`

Types:

```
Width = integer()  
Height = integer()  
Option = {mask, boolean()} | {initialCount, integer()}
```

See **external documentation**.

`add(This, Bitmap) -> integer()`

Types:

```
This = wxImageList()  
Bitmap = wxBitmap:wxBitmap()
```

See **external documentation**.

`add(This, Bitmap, Mask) -> integer()`

Types:

```
This = wxImageList()  
Bitmap = wxBitmap:wxBitmap()  
Mask = wxBitmap:wxBitmap()
```

See **external documentation**.

Also:

`add(This, Bitmap, MaskColour) -> integer()` when

wxImageList

This::wxImageList(), Bitmap::wxBitmap:wxBitmap(), MaskColour::wx:wx_colour().

create(This, Width, Height) -> boolean()

Types:

```
This = wxImageList()  
Width = integer()  
Height = integer()
```

Equivalent to *create(This, Width, Height, [])*.

create(This, Width, Height, Options:[Option]) -> boolean()

Types:

```
This = wxImageList()  
Width = integer()  
Height = integer()  
Option = {mask, boolean()} | {initialCount, integer()}
```

See [external documentation](#).

draw(This, Index, Dc, X, Y) -> boolean()

Types:

```
This = wxImageList()  
Index = integer()  
Dc = wxDC:wxDC()  
X = integer()  
Y = integer()
```

Equivalent to *draw(This, Index, Dc, X, Y, [])*.

draw(This, Index, Dc, X, Y, Options:[Option]) -> boolean()

Types:

```
This = wxImageList()  
Index = integer()  
Dc = wxDC:wxDC()  
X = integer()  
Y = integer()  
Option = {flags, integer()} | {solidBackground, boolean()}
```

See [external documentation](#).

getBitmap(This, Index) -> wxBitmap:wxBitmap()

Types:

```
This = wxImageList()  
Index = integer()
```

See [external documentation](#).

getIcon(This, Index) -> wxIcon:wxIcon()

Types:

This = *wxImageList()*

Index = *integer()*

See [external documentation](#).

getImageCount(This) -> integer()

Types:

This = *wxImageList()*

See [external documentation](#).

getSize(This, Index) -> Result

Types:

Result = {*Res*::boolean(), *Width*::integer(), *Height*::integer()}

This = *wxImageList()*

Index = *integer()*

See [external documentation](#).

remove(This, Index) -> boolean()

Types:

This = *wxImageList()*

Index = *integer()*

See [external documentation](#).

removeAll(This) -> boolean()

Types:

This = *wxImageList()*

See [external documentation](#).

replace(This, Index, Bitmap) -> boolean()

Types:

This = *wxImageList()*

Index = *integer()*

Bitmap = *wxBitmap:wxBitmap()*

See [external documentation](#).

replace(This, Index, Bitmap, Mask) -> boolean()

Types:

This = *wxImageList()*

Index = *integer()*

Bitmap = *wxBitmap:wxBitmap()*

Mask = *wxBitmap:wxBitmap()*

See [external documentation](#).

wxImageList

destroy(This::wxImageList()) -> ok

Destroys this object, do not use object again

wxInitDialogEvent

Erlang module

See external documentation: **wxInitDialogEvent**.

Use *wxEvtHandler:connect/3* with EventType:

init_dialog

See also the message variant *#wxInitDialog{}* event record type.

This class is derived (and can use functions) from:

wxEvent

DATA TYPES

`wxInitDialogEvent()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

wxJoystickEvent

Erlang module

See external documentation: **wxJoystickEvent**.

Use *wxEvtHandler:connect/3* with EventType:

joy_button_down, joy_button_up, joy_move, joy_zmove

See also the message variant `#wxJoystick{}` event record type.

This class is derived (and can use functions) from:

wxEvent

DATA TYPES

`wxJoystickEvent()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`buttonDown(This) -> boolean()`

Types:

This = wxJoystickEvent()

Equivalent to `buttonDown(This, [])`.

`buttonDown(This, Options:[Option]) -> boolean()`

Types:

This = wxJoystickEvent()

Option = {but, integer()}

See [external documentation](#).

`buttonIsDown(This) -> boolean()`

Types:

This = wxJoystickEvent()

Equivalent to `buttonIsDown(This, [])`.

`buttonIsDown(This, Options:[Option]) -> boolean()`

Types:

This = wxJoystickEvent()

Option = {but, integer()}

See [external documentation](#).

`buttonUp(This) -> boolean()`

Types:

This = wxJoystickEvent()

Equivalent to *buttonUp*(*This*, []).

buttonUp(*This*, Options::[Option]) -> boolean()

Types:

This = wxJoystickEvent()

Option = {but, integer()}

See **external documentation**.

getButtonChange(*This*) -> integer()

Types:

This = wxJoystickEvent()

See **external documentation**.

getButtonState(*This*) -> integer()

Types:

This = wxJoystickEvent()

See **external documentation**.

getJoystick(*This*) -> integer()

Types:

This = wxJoystickEvent()

See **external documentation**.

getPosition(*This*) -> {X::integer(), Y::integer()}

Types:

This = wxJoystickEvent()

See **external documentation**.

getZPosition(*This*) -> integer()

Types:

This = wxJoystickEvent()

See **external documentation**.

isButton(*This*) -> boolean()

Types:

This = wxJoystickEvent()

See **external documentation**.

isMove(*This*) -> boolean()

Types:

This = wxJoystickEvent()

See **external documentation**.

wxJoystickEvent

isZMove(This) -> boolean()

Types:

This = wxJoystickEvent()

See [external documentation](#).

wxKeyEvent

Erlang module

See external documentation: **wxKeyEvent**.

Use *wxEvtHandler:connect/3* with EventType:

char, char_hook, key_down, key_up

See also the message variant `#wxKey{}` event record type.

This class is derived (and can use functions) from:

wxEvent

DATA TYPES

`wxKeyEvent()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`altDown(This) -> boolean()`

Types:

`This = wxKeyEvent()`

See **external documentation**.

`cmdDown(This) -> boolean()`

Types:

`This = wxKeyEvent()`

See **external documentation**.

`controlDown(This) -> boolean()`

Types:

`This = wxKeyEvent()`

See **external documentation**.

`getKeyCode(This) -> integer()`

Types:

`This = wxKeyEvent()`

See **external documentation**.

`getModifiers(This) -> integer()`

Types:

`This = wxKeyEvent()`

See **external documentation**.

wxKeyEvent

getPosition(This) -> {X::integer(), Y::integer()}

Types:

This = wxKeyEvent()

See [external documentation](#).

getRawKeyCode(This) -> integer()

Types:

This = wxKeyEvent()

See [external documentation](#).

getRawKeyFlags(This) -> integer()

Types:

This = wxKeyEvent()

See [external documentation](#).

getUnicodeKey(This) -> integer()

Types:

This = wxKeyEvent()

See [external documentation](#).

getX(This) -> integer()

Types:

This = wxKeyEvent()

See [external documentation](#).

getY(This) -> integer()

Types:

This = wxKeyEvent()

See [external documentation](#).

hasModifiers(This) -> boolean()

Types:

This = wxKeyEvent()

See [external documentation](#).

metaDown(This) -> boolean()

Types:

This = wxKeyEvent()

See [external documentation](#).

shiftDown(This) -> boolean()

Types:

This = wxKeyEvent()

See [external documentation](#).

wxLayoutAlgorithm

Erlang module

See external documentation: **wxLayoutAlgorithm**.

DATA TYPES

`wxLayoutAlgorithm()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxLayoutAlgorithm()`

See **external documentation**.

`layoutFrame(This, Frame) -> boolean()`

Types:

```
This = wxLayoutAlgorithm()
Frame = wxFrme:wxFrme()
```

Equivalent to *layoutFrame(This, Frame, [])*.

`layoutFrame(This, Frame, Options:[Option]) -> boolean()`

Types:

```
This = wxLayoutAlgorithm()
Frame = wxFrme:wxFrme()
Option = {mainWindow, wxWindow:wxWindow()}
```

See **external documentation**.

`layoutMDIFrame(This, Frame) -> boolean()`

Types:

```
This = wxLayoutAlgorithm()
Frame = wxMDIParentFrme:wxMDIParentFrme()
```

Equivalent to *layoutMDIFrame(This, Frame, [])*.

`layoutMDIFrame(This, Frame, Options:[Option]) -> boolean()`

Types:

```
This = wxLayoutAlgorithm()
Frame = wxMDIParentFrme:wxMDIParentFrme()
Option = {rect, {X::integer(), Y::integer(), W::integer(), H::integer()}}
```

See **external documentation**.

`layoutWindow(This, Frame) -> boolean()`

Types:

`This = wxLayoutAlgorithm()`
`Frame = wxWindow:wxWindow()`

Equivalent to `layoutWindow(This, Frame, []).`

`layoutWindow(This, Frame, Options:[Option]) -> boolean()`

Types:

`This = wxLayoutAlgorithm()`
`Frame = wxWindow:wxWindow()`
`Option = {mainWindow, wxWindow:wxWindow()}`

See external documentation.

`destroy(This::wxLayoutAlgorithm()) -> ok`

Destroys this object, do not use object again

wxListBox

Erlang module

See external documentation: **wxListBox**.

This class is derived (and can use functions) from:

wxControlWithItems

wxControl

wxWindow

wxEvtHandler

DATA TYPES

wxListBox()

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

new() -> wxListBox()

See **external documentation**.

new(Parent, Id) -> wxListBox()

Types:

```
Parent = wxWindow:wxWindow()  
Id = integer()
```

Equivalent to *new(Parent, Id, [])*.

new(Parent, Id, Options:[Option]) -> wxListBox()

Types:

```
Parent = wxWindow:wxWindow()  
Id = integer()  
Option = {pos, {X::integer(), Y::integer()}} | {size, {W::integer(),  
H::integer()}} | {choices, [unicode:chardata()]} | {style, integer()} |  
{validator, wx:wx_object()}
```

See **external documentation**.

create(This, Parent, Id, Pos, Size, Choices) -> boolean()

Types:

```
This = wxListBox()  
Parent = wxWindow:wxWindow()  
Id = integer()  
Pos = {X::integer(), Y::integer()}  
Size = {W::integer(), H::integer()}  
Choices = [unicode:chardata()]
```

Equivalent to `create(This, Parent, Id, Pos, Size, Choices, [])`.

`create(This, Parent, Id, Pos, Size, Choices, Options::[Option]) -> boolean()`

Types:

```
This = wxListBox()
Parent = wxWindow:wxWindow()
Id = integer()
Pos = {X::integer(), Y::integer()}
Size = {W::integer(), H::integer()}
Choices = [unicode:chardata()]
Option = {style, integer()} | {validator, wx:wx_object()}
```

See [external documentation](#).

`deselect(This, N) -> ok`

Types:

```
This = wxListBox()
N = integer()
```

See [external documentation](#).

`getSelections(This) -> Result`

Types:

```
Result = {Res::integer(), ASelections::[integer()]}
This = wxListBox()
```

See [external documentation](#).

`insertItems(This, Items, Pos) -> ok`

Types:

```
This = wxListBox()
Items = [unicode:chardata()]
Pos = integer()
```

See [external documentation](#).

`isSelected(This, N) -> boolean()`

Types:

```
This = wxListBox()
N = integer()
```

See [external documentation](#).

`set(This, Items) -> ok`

Types:

```
This = wxListBox()
Items = [unicode:chardata()]
```

See [external documentation](#).

wxListBox

hitTest(This, Point) -> integer()

Types:

```
This = wxListBox()
Point = {X::integer(), Y::integer()}
```

See [external documentation](#).

setFirstItem(This, N) -> ok

Types:

```
This = wxListBox()
N = integer()
```

See [external documentation](#).

Also:

setFirstItem(This, S) -> 'ok' when
This::wxListBox(), S::unicode:chardata().

destroy(This::wxListBox()) -> ok

Destroys this object, do not use object again

wxListCtrl

Erlang module

See external documentation: **wxListCtrl**.

This class is derived (and can use functions) from:

wxControl

wxWindow

wxEvtHandler

DATA TYPES

`wxListCtrl()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxListCtrl()`

See **external documentation**.

`new(Parent) -> wxListCtrl()`

Types:

`Parent = wxWindow:wxWindow()`

`new(Parent, Options:[Option]) -> wxListCtrl()`

Types:

```
Parent = wxWindow:wxWindow()
Option = {winid, integer()} | {pos, {X::integer(), Y::integer()}} | 
{size, {W::integer(), H::integer()}} | {style, integer()} | {validator,
wx:wx_object()} | {onGetItemText, function()} | {onGetItemAttr,
function()} | {onGetItemColumnImage, function()}
```

Creates a listctrl with optional callback functions:

`OnGetItemText = (This, Item, Column) -> unicode:charlist()` `OnGetItemAttr = (This, Item) -> wxListItemAttr:wxListItemAttr()` `OnGetItemColumnImage = (This, Item, Column) -> integer()`

See **external documentation**.

`arrange(This) -> boolean()`

Types:

`This = wxListCtrl()`

Equivalent to `arrange(This, [])`.

`arrange(This, Options:[Option]) -> boolean()`

Types:

`This = wxListCtrl()`

wxListCtrl

Option = {flag, integer()}

See [external documentation](#).

assignImageList(This, ImageList, Which) -> ok

Types:

```
This = wxListCtrl()
ImageList = wxImageList:wxImageList()
Which = integer()
```

See [external documentation](#).

clearAll(This) -> ok

Types:

```
This = wxListCtrl()
```

See [external documentation](#).

create(This, Parent) -> wxListCtrl()

Types:

```
This = wxWindow:wxWindow()
Parent = wxWindow:wxWindow()
```

Equivalent to *create(This, Parent, [])*.

create(This, Parent, Options:[Option]) -> wxListCtrl()

Types:

```
This = wxWindow:wxWindow()
Parent = wxWindow:wxWindow()
Option = {winid, integer()} | {pos, {X::integer(), Y::integer()}} |
{size, {W::integer(), H::integer()}} | {style, integer()} | {validator,
wx:wx_object()} | {onGetItemText, function()} | {onGetItemAttr,
function()} | {onGetItemColumnImage, function()}
```

See [external documentation](#).

deleteAllItems(This) -> boolean()

Types:

```
This = wxListCtrl()
```

See [external documentation](#).

deleteColumn(This, Col) -> boolean()

Types:

```
This = wxListCtrl()
Col = integer()
```

See [external documentation](#).

```
deleteItem(This, Item) -> boolean()
```

Types:

```
This = wxListCtrl()
Item = integer()
```

See [external documentation](#).

```
editLabel(This, Item) -> wxTextCtrl:wxTextCtrl()
```

Types:

```
This = wxListCtrl()
Item = integer()
```

See [external documentation](#).

```
ensureVisible(This, Item) -> boolean()
```

Types:

```
This = wxListCtrl()
Item = integer()
```

See [external documentation](#).

```
findItem(This, Start, Str) -> integer()
```

Types:

```
This = wxListCtrl()
Start = integer()
Str = unicode:chardata()
```

Equivalent to *findItem(This, Start, Str, [])*.

```
findItem(This, Start, Str, Options:[Option]) -> integer()
```

Types:

```
This = wxListCtrl()
Start = integer()
Str = unicode:chardata()
Option = {partial, boolean()}
```

See [external documentation](#).

Also:

findItem(This, Start, Pt, Direction) -> integer() when

This::wxListCtrl(), Start::integer(), Pt::{X::integer(), Y::integer()}, Direction::integer().

```
getColumn(This, Col, Item) -> boolean()
```

Types:

```
This = wxListCtrl()
Col = integer()
Item = wxListItem:wxListItem()
```

See [external documentation](#).

wxListCtrl

getColumnCount(This) -> integer()

Types:

This = wxListCtrl()

See **external documentation**.

getColumnWidth(This, Col) -> integer()

Types:

This = wxListCtrl()

Col = integer()

See **external documentation**.

getCountPerPage(This) -> integer()

Types:

This = wxListCtrl()

See **external documentation**.

getEditControl(This) -> wxTextCtrl:wxTextCtrl()

Types:

This = wxListCtrl()

See **external documentation**.

getImageList(This, Which) -> wxImageList:wxImageList()

Types:

This = wxListCtrl()

Which = integer()

See **external documentation**.

getItem(This, Info) -> boolean()

Types:

This = wxListCtrl()

Info = wxListItem:wxListItem()

See **external documentation**.

getItemBackgroundColour(This, Item) -> wx:wx_colour4()

Types:

This = wxListCtrl()

Item = integer()

See **external documentation**.

getItemCount(This) -> integer()

Types:

This = wxListCtrl()

See **external documentation**.

`getItemData(This, Item) -> integer()`

Types:

```
This = wxListCtrl()
Item = integer()
```

See [external documentation](#).

`getItemFont(This, Item) -> wxFont:wxFont()`

Types:

```
This = wxListCtrl()
Item = integer()
```

See [external documentation](#).

`getItemPosition(This, Item) -> Result`

Types:

```
Result = {Res::boolean(), Pos::{X::integer(), Y::integer()}}
This = wxListCtrl()
Item = integer()
```

See [external documentation](#).

`getItemRect(This, Item) -> Result`

Types:

```
Result = {Res::boolean(), Rect::{X::integer(), Y::integer(), W::integer(),
H::integer()}}
This = wxListCtrl()
Item = integer()
```

Equivalent to `getItemRect(This, Item, [])`.

`getItemRect(This, Item, Options::[Option]) -> Result`

Types:

```
Result = {Res::boolean(), Rect::{X::integer(), Y::integer(), W::integer(),
H::integer()}}
This = wxListCtrl()
Item = integer()
Option = {code, integer()}
```

See [external documentation](#).

`getItemSpacing(This) -> {W::integer(), H::integer()}`

Types:

```
This = wxListCtrl()
```

See [external documentation](#).

`getItemState(This, Item, StateMask) -> integer()`

Types:

wxListCtrl

```
This = wxListCtrl()  
Item = integer()  
StateMask = integer()
```

See [external documentation](#).

`getItemText(This, Item) -> unicode:charlist()`

Types:

```
This = wxListCtrl()  
Item = integer()
```

See [external documentation](#).

`getItemTextColour(This, Item) -> wx:wx_colour4()`

Types:

```
This = wxListCtrl()  
Item = integer()
```

See [external documentation](#).

`getNextItem(This, Item) -> integer()`

Types:

```
This = wxListCtrl()  
Item = integer()
```

Equivalent to `getNextItem(This, Item, []).`

`getNextItem(This, Item, Options:[Option]) -> integer()`

Types:

```
This = wxListCtrl()  
Item = integer()  
Option = {geometry, integer()} | {state, integer()}
```

See [external documentation](#).

`getSelectedItemCount(This) -> integer()`

Types:

```
This = wxListCtrl()
```

See [external documentation](#).

`getTextColour(This) -> wx:wx_colour4()`

Types:

```
This = wxListCtrl()
```

See [external documentation](#).

`getTopItem(This) -> integer()`

Types:

```
This = wxListCtrl()
```

See [external documentation](#).

```
getViewRect(This) -> {X::integer(), Y::integer(), W::integer(), H::integer()}
```

Types:

```
This = wxListCtrl()
```

See [external documentation](#).

```
hitTest(This, Point) -> Result
```

Types:

```
Result = {Res::integer(), Flags::integer(), PSubItem::integer()}
```

```
This = wxListCtrl()
```

```
Point = {X::integer(), Y::integer()}
```

See [external documentation](#).

```
insertColumn(This, Col, Heading) -> integer()
```

Types:

```
This = wxListCtrl()
```

```
Col = integer()
```

```
Heading = unicode:chardata()
```

See [external documentation](#).

Also:

```
insertColumn(This, Col, Info) -> integer() when
```

```
This::wxListCtrl(), Col::integer(), Info::wxListItem:wxListItem().
```

```
insertColumn(This, Col, Heading, Options::[Option]) -> integer()
```

Types:

```
This = wxListCtrl()
```

```
Col = integer()
```

```
Heading = unicode:chardata()
```

```
Option = {format, integer()} | {width, integer()}
```

See [external documentation](#).

```
insertItem(This, Info) -> integer()
```

Types:

```
This = wxListCtrl()
```

```
Info = wxListItem:wxListItem()
```

See [external documentation](#).

```
insertItem(This, Index, ImageIndex) -> integer()
```

Types:

```
This = wxListCtrl()
```

```
Index = integer()
```

```
ImageIndex = integer()
```

wxListCtrl

See [external documentation](#).

Also:

insertItem(This, Index, Label) -> integer() when
This::wxListCtrl(), Index::integer(), Label::unicode:chardata().

insertItem(This, Index, Label, ImageIndex) -> integer()

Types:

```
This = wxListCtrl()  
Index = integer()  
Label = unicode:chardata()  
ImageIndex = integer()
```

See [external documentation](#).

refreshItem(This, Item) -> ok

Types:

```
This = wxListCtrl()  
Item = integer()
```

See [external documentation](#).

refreshItems(This, ItemFrom, ItemTo) -> ok

Types:

```
This = wxListCtrl()  
ItemFrom = integer()  
ItemTo = integer()
```

See [external documentation](#).

scrollList(This, Dx, Dy) -> boolean()

Types:

```
This = wxListCtrl()  
Dx = integer()  
Dy = integer()
```

See [external documentation](#).

setBackgroundColour(This, Colour) -> boolean()

Types:

```
This = wxListCtrl()  
Colour = wx:wx_colour()
```

See [external documentation](#).

setColumn(This, Col, Item) -> boolean()

Types:

```
This = wxListCtrl()  
Col = integer()  
Item = wxListItem:wxListItem()
```

See [external documentation](#).

`setColumnWidth(This, Col, Width) -> boolean()`

Types:

```
This = wxListCtrl()  
Col = integer()  
Width = integer()
```

See [external documentation](#).

`setImageList(This, ImageList, Which) -> ok`

Types:

```
This = wxListCtrl()  
ImageList = wxImageList:wxImageList()  
Which = integer()
```

See [external documentation](#).

`setItem(This, Info) -> boolean()`

Types:

```
This = wxListCtrl()  
Info = wxListItem:wxListItem()
```

See [external documentation](#).

`setItem(This, Index, Col, Label) -> integer()`

Types:

```
This = wxListCtrl()  
Index = integer()  
Col = integer()  
Label = unicode:chardata()
```

Equivalent to `setItem(This, Index, Col, Label, [])`.

`setItem(This, Index, Col, Label, Options:[Option]) -> integer()`

Types:

```
This = wxListCtrl()  
Index = integer()  
Col = integer()  
Label = unicode:chardata()  
Option = {imageId, integer()}
```

See [external documentation](#).

`setItemBackgroundColour(This, Item, Col) -> ok`

Types:

```
This = wxListCtrl()  
Item = integer()
```

wxListCtrl

```
Col = wx:wx_colour()
```

See [external documentation](#).

setItemCount(This, Count) -> ok

Types:

```
This = wxListCtrl()  
Count = integer()
```

See [external documentation](#).

setItemData(This, Item, Data) -> boolean()

Types:

```
This = wxListCtrl()  
Item = integer()  
Data = integer()
```

See [external documentation](#).

setItemFont(This, Item, F) -> ok

Types:

```
This = wxListCtrl()  
Item = integer()  
F = wxFont:wxFont()
```

See [external documentation](#).

setItemImage(This, Item, Image) -> boolean()

Types:

```
This = wxListCtrl()  
Item = integer()  
Image = integer()
```

Equivalent to *setItemImage(This, Item, Image, [])*.

setItemImage(This, Item, Image, Options:[Option]) -> boolean()

Types:

```
This = wxListCtrl()  
Item = integer()  
Image = integer()  
Option = {selImage, integer()}
```

See [external documentation](#).

setItemColumnImage(This, Item, Column, Image) -> boolean()

Types:

```
This = wxListCtrl()  
Item = integer()  
Column = integer()
```

```
Image = integer()
```

See [external documentation](#).

```
setItemPosition(This, Item, Pos) -> boolean()
```

Types:

```
This = wxListCtrl()
Item = integer()
Pos = {X::integer(), Y::integer()}
```

See [external documentation](#).

```
setItemState(This, Item, State, StateMask) -> boolean()
```

Types:

```
This = wxListCtrl()
Item = integer()
State = integer()
StateMask = integer()
```

See [external documentation](#).

```
setItemText(This, Item, Str) -> ok
```

Types:

```
This = wxListCtrl()
Item = integer()
Str = unicode:chardata()
```

See [external documentation](#).

```
setItemTextColour(This, Item, Col) -> ok
```

Types:

```
This = wxListCtrl()
Item = integer()
Col = wx:wx_colour()
```

See [external documentation](#).

```
setSingleStyle(This, Style) -> ok
```

Types:

```
This = wxListCtrl()
Style = integer()
```

Equivalent to *setSingleStyle(This, Style, [])*.

```
setSingleStyle(This, Style, Options:[Option]) -> ok
```

Types:

```
This = wxListCtrl()
Style = integer()
Option = {add, boolean()}
```

wxListCtrl

See [external documentation](#).

setTextColour(This, Col) -> ok

Types:

```
This = wxListCtrl()  
Col = wx:wx_colour()
```

See [external documentation](#).

setWindowStyleFlag(This, Style) -> ok

Types:

```
This = wxListCtrl()  
Style = integer()
```

See [external documentation](#).

sortItems(This::wxListCtrl(), SortCallBack::function()) -> boolean()

Sort the items in the list control

```
SortCallBack(Item1,Item2) -> integer()
```

SortCallBack receives the client data associated with two items to compare, and should return 0 if the items are equal, a negative value if the first item is less than the second one and a positive value if the first item is greater than the second one.

NOTE: The callback may not call other (wx) processes.

destroy(This::wxListCtrl()) -> ok

Destroys this object, do not use object again

wxListEvent

Erlang module

See external documentation: **wxListEvent**.

Use *wxEvtHandler:connect/3* with EventType:

<code>command_list_begin_drag,</code>	<code>command_list_begin_rdrag,</code>	<code>command_list_begin_label_edit,</code>
<code>command_list_end_label_edit,</code>	<code>command_list_delete_item,</code>	<code>command_list_delete_all_items,</code>
<code>command_list_key_down,</code>	<code>command_list_insert_item,</code>	<code>command_list_col_click,</code>
<code>command_list_col_right_click,</code>	<code>command_list_col_begin_drag,</code>	<code>command_list_col_dragging,</code>
<code>command_list_col_end_drag,</code>	<code>command_list_item_selected,</code>	<code>command_list_item_deselected,</code>
<code>command_list_item_right_click,</code>	<code>command_list_item_middle_click,</code>	<code>command_list_item_activated,</code>
<code>command_list_item_focused,</code>	<code>command_list_cache_hint</code>	

See also the message variant `#wxList{}` event record type.

This class is derived (and can use functions) from:

wxNotifyEvent
wxCommandEvent
wxEvent

DATA TYPES

`wxListEvent()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`getCacheFrom(This) -> integer()`

Types:

`This = wxListEvent()`

See **external documentation**.

`getCacheTo(This) -> integer()`

Types:

`This = wxListEvent()`

See **external documentation**.

`getKeyCode(This) -> integer()`

Types:

`This = wxListEvent()`

See **external documentation**.

`getIndex(This) -> integer()`

Types:

`This = wxListEvent()`

wxListEvent

See [external documentation](#).

`getColumn(This) -> integer()`

Types:

`This = wxListEvent()`

See [external documentation](#).

`getPoint(This) -> {X::integer(), Y::integer()}`

Types:

`This = wxListEvent()`

See [external documentation](#).

`getLabel(This) -> unicode:charlist()`

Types:

`This = wxListEvent()`

See [external documentation](#).

`getText(This) -> unicode:charlist()`

Types:

`This = wxListEvent()`

See [external documentation](#).

`getImage(This) -> integer()`

Types:

`This = wxListEvent()`

See [external documentation](#).

`getData(This) -> integer()`

Types:

`This = wxListEvent()`

See [external documentation](#).

`getMask(This) -> integer()`

Types:

`This = wxListEvent()`

See [external documentation](#).

`getItem(This) -> wxListItem:wxListItem()`

Types:

`This = wxListEvent()`

See [external documentation](#).

isEditCancelled(This) -> boolean()

Types:

This = wxListEvent()

See [external documentation](#).

wxListItem

Erlang module

See external documentation: **wxListItem**.

DATA TYPES

wxListItem()

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxListItem()`

See **external documentation**.

`new(Item) -> wxListItem()`

Types:

`Item = wxListItem()`

See **external documentation**.

`clear(This) -> ok`

Types:

`This = wxListItem()`

See **external documentation**.

`getAlign(This) -> wx:wx_enum()`

Types:

`This = wxListItem()`

See **external documentation**.

Res = ?wxLIST_FORMAT_LEFT | ?wxLIST_FORMAT_RIGHT | ?wxLIST_FORMAT_CENTRE | ?
wxLIST_FORMAT_CENTER

`getBackgroundColour(This) -> wx:wx_colour4()`

Types:

`This = wxListItem()`

See **external documentation**.

`getColumn(This) -> integer()`

Types:

`This = wxListItem()`

See **external documentation**.

getFont(This) -> wxFont:wxFont()

Types:

This = wxListItem()

See **external documentation**.

getId(This) -> integer()

Types:

This = wxListItem()

See **external documentation**.

getImage(This) -> integer()

Types:

This = wxListItem()

See **external documentation**.

getMask(This) -> integer()

Types:

This = wxListItem()

See **external documentation**.

getState(This) -> integer()

Types:

This = wxListItem()

See **external documentation**.

getText(This) -> unicode:charlist()

Types:

This = wxListItem()

See **external documentation**.

getTextColour(This) -> wx:wx_colour4()

Types:

This = wxListItem()

See **external documentation**.

getWidth(This) -> integer()

Types:

This = wxListItem()

See **external documentation**.

setAlign(This, Align) -> ok

Types:

This = wxListItem()

wxListItem

Align = wx:wx_enum()

See [external documentation](#).

Align = ?wxLIST_FORMAT_LEFT | ?wxLIST_FORMAT_RIGHT | ?wxLIST_FORMAT_CENTRE | ?wxLIST_FORMAT_CENTER

setBackgroundColour(This, ColBack) -> ok

Types:

```
This = wxListItem()
ColBack = wx:wx_colour()
```

See [external documentation](#).

setColumn(This, Col) -> ok

Types:

```
This = wxListItem()
Col = integer()
```

See [external documentation](#).

setFont(This, Font) -> ok

Types:

```
This = wxListItem()
Font = wxFont:wxFont()
```

See [external documentation](#).

setId(This, Id) -> ok

Types:

```
This = wxListItem()
Id = integer()
```

See [external documentation](#).

setImage(This, Image) -> ok

Types:

```
This = wxListItem()
Image = integer()
```

See [external documentation](#).

setMask(This, Mask) -> ok

Types:

```
This = wxListItem()
Mask = integer()
```

See [external documentation](#).

setState(This, State) -> ok

Types:

```
This = wxListItem()
State = integer()
```

See [external documentation](#).

setStateMask(This, StateMask) -> ok

Types:

```
This = wxListItem()
StateMask = integer()
```

See [external documentation](#).

setText(This, Text) -> ok

Types:

```
This = wxListItem()
Text = unicode:chardata()
```

See [external documentation](#).

setTextColour(This, ColText) -> ok

Types:

```
This = wxListItem()
ColText = wx:wx_colour()
```

See [external documentation](#).

setWidth(This, Width) -> ok

Types:

```
This = wxListItem()
Width = integer()
```

See [external documentation](#).

destroy(This::wxListItem()) -> ok

Destroys this object, do not use object again

wxListItemAttr

Erlang module

See external documentation: **wxListItemAttr**.

DATA TYPES

wxListItemAttr()

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

new() -> wxListItemAttr()

See **external documentation**.

new(ColText, ColBack, Font) -> wxListItemAttr()

Types:

```
ColText = wx:wx_colour()  
ColBack = wx:wx_colour()  
Font = wxFont:wxFont()
```

See **external documentation**.

getBackgroundColour(This) -> wx:wx_colour4()

Types:

```
This = wxListItemAttr()
```

See **external documentation**.

getFont(This) -> wxFont:wxFont()

Types:

```
This = wxListItemAttr()
```

See **external documentation**.

getTextColour(This) -> wx:wx_colour4()

Types:

```
This = wxListItemAttr()
```

See **external documentation**.

hasBackgroundColour(This) -> boolean()

Types:

```
This = wxListItemAttr()
```

See **external documentation**.

hasFont(This) -> boolean()

Types:

This = `wxListItemAttr()`

See [external documentation](#).

hasTextColour(This) -> boolean()

Types:

This = `wxListItemAttr()`

See [external documentation](#).

setBackgroundColour(This, ColBack) -> ok

Types:

This = `wxListItemAttr()`

ColBack = `wx:wx_colour()`

See [external documentation](#).

setFont(This, Font) -> ok

Types:

This = `wxListItemAttr()`

Font = `wxFONT:wxFont()`

See [external documentation](#).

setTextColour(This, ColText) -> ok

Types:

This = `wxListItemAttr()`

ColText = `wx:wx_colour()`

See [external documentation](#).

destroy(This::wxListItemAttr()) -> ok

Destroys this object, do not use object again

wxListView

Erlang module

See external documentation: **wxListView**.

This class is derived (and can use functions) from:

wxControl

wxWindow

wxEvtHandler

DATA TYPES

`wxListView()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`clearColumnImage(This, Col) -> ok`

Types:

```
This = wxListView()
Col = integer()
```

See **external documentation**.

`focus(This, Index) -> ok`

Types:

```
This = wxListView()
Index = integer()
```

See **external documentation**.

`getFirstSelected(This) -> integer()`

Types:

```
This = wxListView()
```

See **external documentation**.

`getFocusedItem(This) -> integer()`

Types:

```
This = wxListView()
```

See **external documentation**.

`getNextSelected(This, Item) -> integer()`

Types:

```
This = wxListView()
Item = integer()
```

See [external documentation](#).

`isSelected(This, Index) -> boolean()`

Types:

```
This = wxListView()  
Index = integer()
```

See [external documentation](#).

`select(This, N) -> ok`

Types:

```
This = wxListView()  
N = integer()
```

Equivalent to `select(This, N, [])`.

`select(This, N, Options:[Option]) -> ok`

Types:

```
This = wxListView()  
N = integer()  
Option = {on, boolean()}
```

See [external documentation](#).

`setColumnImage(This, Col, Image) -> ok`

Types:

```
This = wxListView()  
Col = integer()  
Image = integer()
```

See [external documentation](#).

wxListbook

Erlang module

See external documentation: **wxListbook**.

This class is derived (and can use functions) from:

wxControl

wxWindow

wxEvtHandler

DATA TYPES

`wxListbook()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxListbook()`

See **external documentation**.

`new(Parent, Id) -> wxListbook()`

Types:

```
Parent = wxWindow:wxWindow()
Id = integer()
```

Equivalent to `new(Parent, Id, [])`.

`new(Parent, Id, Options:[Option]) -> wxListbook()`

Types:

```
Parent = wxWindow:wxWindow()
Id = integer()
Option = {pos, {X::integer(), Y::integer()}} | {size, {W::integer(),
H::integer()}} | {style, integer()}
```

See **external documentation**.

`addPage(This, Page, Text) -> boolean()`

Types:

```
This = wxListbook()
Page = wxWindow:wxWindow()
Text = unicode:chardata()
```

Equivalent to `addPage(This, Page, Text, [])`.

`addPage(This, Page, Text, Options:[Option]) -> boolean()`

Types:

```
This = wxListbook()
Page = wxWindow:wxWindow()
Text = unicode:chardata()
Option = {bSelect, boolean()} | {imageId, integer()}
```

See **external documentation**.

advanceSelection(This) -> ok

Types:

```
This = wxListbook()
```

Equivalent to *advanceSelection(This, [])*.

advanceSelection(This, Options:[Option]) -> ok

Types:

```
This = wxListbook()
Option = {forward, boolean()}
```

See **external documentation**.

assignImageList(This, ImageList) -> ok

Types:

```
This = wxListbook()
ImageList = wxImageList:wxImageList()
```

See **external documentation**.

create(This, Parent, Id) -> boolean()

Types:

```
This = wxListbook()
Parent = wxWindow:wxWindow()
Id = integer()
```

Equivalent to *create(This, Parent, Id, [])*.

create(This, Parent, Id, Options:[Option]) -> boolean()

Types:

```
This = wxListbook()
Parent = wxWindow:wxWindow()
Id = integer()
Option = {pos, {X::integer(), Y::integer()}} | {size, {W::integer(),
H::integer()}} | {style, integer()}
```

See **external documentation**.

deleteAllPages(This) -> boolean()

Types:

```
This = wxListbook()
```

See **external documentation**.

wxListbook

`deletePage(This, N) -> boolean()`

Types:

```
This = wxListbook()
N = integer()
```

See [external documentation](#).

`removePage(This, N) -> boolean()`

Types:

```
This = wxListbook()
N = integer()
```

See [external documentation](#).

`getCurrentPage(This) -> wxWindow:wxWindow()`

Types:

```
This = wxListbook()
```

See [external documentation](#).

`getImageList(This) -> wxImageList:wxImageList()`

Types:

```
This = wxListbook()
```

See [external documentation](#).

`getPage(This, N) -> wxWindow:wxWindow()`

Types:

```
This = wxListbook()
N = integer()
```

See [external documentation](#).

`getPageCount(This) -> integer()`

Types:

```
This = wxListbook()
```

See [external documentation](#).

`getPageImage(This, N) -> integer()`

Types:

```
This = wxListbook()
N = integer()
```

See [external documentation](#).

`getPageText(This, N) -> unicode:charlist()`

Types:

```
This = wxListbook()
N = integer()
```

See [external documentation](#).

`getSelection(This) -> integer()`

Types:

`This = wxListbook()`

See [external documentation](#).

`hitTest(This, Pt) -> Result`

Types:

`Result = {Res::integer(), Flags::integer()}`

`This = wxListbook()`

`Pt = {X::integer(), Y::integer()}`

See [external documentation](#).

`insertPage(This, N, Page, Text) -> boolean()`

Types:

`This = wxListbook()`

`N = integer()`

`Page = wxWindow:wxWindow()`

`Text = unicode:chardata()`

Equivalent to `insertPage(This, N, Page, Text, [])`.

`insertPage(This, N, Page, Text, Options:[Option]) -> boolean()`

Types:

`This = wxListbook()`

`N = integer()`

`Page = wxWindow:wxWindow()`

`Text = unicode:chardata()`

`Option = {bSelect, boolean()} | {imageId, integer()}`

See [external documentation](#).

`setImageList(This, ImageList) -> ok`

Types:

`This = wxListbook()`

`ImageList = wxImageList:wxImageList()`

See [external documentation](#).

`setPageSize(This, Size) -> ok`

Types:

`This = wxListbook()`

`Size = {W::integer(), H::integer()}`

See [external documentation](#).

wxListbook

`setPageImage(This, N, ImageId) -> boolean()`

Types:

```
This = wxListbook()
N = integer()
ImageId = integer()
```

See [external documentation](#).

`setPageText(This, N, StrText) -> boolean()`

Types:

```
This = wxListbook()
N = integer()
StrText = unicode:chardata()
```

See [external documentation](#).

`setSelection(This, N) -> integer()`

Types:

```
This = wxListbook()
N = integer()
```

See [external documentation](#).

`changeSelection(This, N) -> integer()`

Types:

```
This = wxListbook()
N = integer()
```

See [external documentation](#).

`destroy(This::wxListbook()) -> ok`

Destroys this object, do not use object again

wxLocale

Erlang module

See external documentation: **wxLocale**.

DATA TYPES

`wxLocale()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxLocale()`

See external documentation.

`new(Language) -> wxLocale()`

Types:

`Language = integer()`

Equivalent to `new(Language, [])`.

`new(Language, Options::[Option]) -> wxLocale()`

Types:

`Language = integer()`

`Option = {flags, integer()}`

See external documentation.

`init(This) -> boolean()`

Types:

`This = wxLocale()`

Equivalent to `init(This, [])`.

`init(This, Options::[Option]) -> boolean()`

Types:

`This = wxLocale()`

`Option = {language, integer()} | {flags, integer()}`

See external documentation.

`addCatalog(This, SzDomain) -> boolean()`

Types:

`This = wxLocale()`

`SzDomain = unicode:chardata()`

See external documentation.

wxLocale

addCatalog(This, SzDomain, MsgIdLanguage, MsgIdCharset) -> boolean()

Types:

```
This = wxLocale()
SzDomain = unicode:chardata()
MsgIdLanguage = wx:wx_enum()
MsgIdCharset = unicode:chardata()
```

See [external documentation](#).

MsgIdLanguage = ?wxLANGUAGE_DEFAULT | ?wxLANGUAGE_UNKNOWN | ?
wxLANGUAGE_ABKHAZIAN | ?wxLANGUAGE_AFAR | ?wxLANGUAGE_AFRIKAANS
| ?wxLANGUAGE_ALBANIAN | ?wxLANGUAGE_AMHARIC | ?wxLANGUAGE_ARABIC
| ?wxLANGUAGE_ARABIC_ALGERIA | ?wxLANGUAGE_ARABIC_BAHRAIN | ?
wxLANGUAGE_ARABIC_EGYPT | ?wxLANGUAGE_ARABIC IRAQ | ?wxLANGUAGE_ARABIC_JORDAN
| ?wxLANGUAGE_ARABIC_KUWAIT | ?wxLANGUAGE_ARABIC_LEBANON | ?
wxLANGUAGE_ARABIC_LIBYA | ?wxLANGUAGE_ARABIC_MOROCCO | ?
wxLANGUAGE_ARABIC_OMAN | ?wxLANGUAGE_ARABIC_QATAR | ?
wxLANGUAGE_ARABIC_SAUDI_ARABIA | ?wxLANGUAGE_ARABIC_SUDAN | ?
wxLANGUAGE_ARABIC_SYRIA | ?wxLANGUAGE_ARABIC_TUNISIA | ?wxLANGUAGE_ARABIC_UAE
| ?wxLANGUAGE_ARABIC_YEMEN | ?wxLANGUAGE_ARMENIAN | ?wxLANGUAGE_ASSAMESE
| ?wxLANGUAGE_AYMARA | ?wxLANGUAGE_AZERI | ?wxLANGUAGE_AZERI_CYRILLIC
| ?wxLANGUAGE_AZERI_LATIN | ?wxLANGUAGE_BASHKIR | ?wxLANGUAGE_BASQUE
| ?wxLANGUAGE_BELARUSIAN | ?wxLANGUAGE_BENGALI | ?wxLANGUAGE_BHUTANI
| ?wxLANGUAGE_BIHARI | ?wxLANGUAGE_BISLAMA | ?wxLANGUAGE_BRETON | ?
wxLANGUAGE_BULGARIAN | ?wxLANGUAGE_BURMESE | ?wxLANGUAGE_CAMBODIAN | ?
wxLANGUAGE_CATALAN | ?wxLANGUAGE_CHINESE | ?wxLANGUAGE_CHINESE_SIMPLIFIED
| ?wxLANGUAGE_CHINESE_TRADITIONAL | ?wxLANGUAGE_CHINESE_HONGKONG | ?
wxLANGUAGE_CHINESE_MACAU | ?wxLANGUAGE_CHINESE_SINGAPORE | ?
wxLANGUAGE_CHINESE_TAIWAN | ?wxLANGUAGE_CORSICAN | ?wxLANGUAGE_CROATIAN
| ?wxLANGUAGE_CZECH | ?wxLANGUAGE_DANISH | ?wxLANGUAGE_DUTCH | ?
wxLANGUAGE_DUTCH_BELGIAN | ?wxLANGUAGE_ENGLISH | ?wxLANGUAGE_ENGLISH_UK | ?
wxLANGUAGE_ENGLISH_US | ?wxLANGUAGE_ENGLISH_AUSTRALIA | ?
wxLANGUAGE_ENGLISH_BELIZE | ?wxLANGUAGE_ENGLISH_BOTSWANA | ?
wxLANGUAGE_ENGLISH_CANADA | ?wxLANGUAGE_ENGLISH_CARIBBEAN | ?
wxLANGUAGE_ENGLISH_DENMARK | ?wxLANGUAGE_ENGLISH_EIRE | ?
wxLANGUAGE_ENGLISH_JAMAICA | ?wxLANGUAGE_ENGLISH_NEW_ZEALAND | ?
wxLANGUAGE_ENGLISH_PHILIPPINES | ?wxLANGUAGE_ENGLISH_SOUTH_AFRICA | ?
wxLANGUAGE_ENGLISH_TRINIDAD | ?wxLANGUAGE_ENGLISH_ZIMBABWE | ?
wxLANGUAGE_ESPERANTO | ?wxLANGUAGE_ESTONIAN | ?wxLANGUAGE_FAEROESE
| ?wxLANGUAGE_FARSI | ?wxLANGUAGE_FIJI | ?wxLANGUAGE_FINNISH | ?
wxLANGUAGE_FRENCH | ?wxLANGUAGE_FRENCH_BELGIAN | ?wxLANGUAGE_FRENCH_CANADIAN
| ?wxLANGUAGE_FRENCH_LUXEMBOURG | ?wxLANGUAGE_FRENCH_MONACO | ?
wxLANGUAGE_FRENCH_SWISS | ?wxLANGUAGE_FRISIAN | ?wxLANGUAGE_GALICIAN | ?
wxLANGUAGE_GEORGIAN | ?wxLANGUAGE_GERMAN | ?wxLANGUAGE_GERMAN_AUSTRIAN
| ?wxLANGUAGE_GERMAN_BELGIUM | ?wxLANGUAGE_GERMAN_LIECHTENSTEIN | ?
wxLANGUAGE_GERMAN_LUXEMBOURG | ?wxLANGUAGE_GERMAN_SWISS | ?
wxLANGUAGE_GREEK | ?wxLANGUAGE_GREENLANDIC | ?wxLANGUAGE_GUARANI | ?
wxLANGUAGE_GUJARATI | ?wxLANGUAGE_HAUSA | ?wxLANGUAGE_HEBREW | ?
wxLANGUAGE_HINDI | ?wxLANGUAGE_HUNGARIAN | ?wxLANGUAGE_ICELANDIC | ?
wxLANGUAGE_INDONESIAN | ?wxLANGUAGE_INTERLINGUA | ?wxLANGUAGE_INTERLINGUE
| ?wxLANGUAGE_INUKTITUT | ?wxLANGUAGE_INUPIAK | ?wxLANGUAGE_IRISH | ?
wxLANGUAGE_ITALIAN | ?wxLANGUAGE_ITALIAN_SWISS | ?wxLANGUAGE_JAPANESE | ?

```

wxLANGUAGE_JAVANESE | ?wxLANGUAGE_KANNADA | ?wxLANGUAGE_KASHMIRI | ?
wxLANGUAGE_KASHMIRI_INDIA | ?wxLANGUAGE_KAZAKH | ?wxLANGUAGE_KERNEWEK
| ?wxLANGUAGE_KINYARWANDA | ?wxLANGUAGE_KIRGHIZ | ?wxLANGUAGE_KIRUNDI
| ?wxLANGUAGE_KONKANI | ?wxLANGUAGE_KOREAN | ?wxLANGUAGE_KURDISH | ?
wxLANGUAGE_LAOTHIAN | ?wxLANGUAGE_LATIN | ?wxLANGUAGE_LATVIAN | ?
wxLANGUAGE_LINGALA | ?wxLANGUAGE_LITHUANIAN | ?wxLANGUAGE_MACEDONIAN | ?
wxLANGUAGE_MALAGASY | ?wxLANGUAGE_MALAY | ?wxLANGUAGE_MALAYALAM | ?
wxLANGUAGE_MALAY_BRUNEI_DARUSSALAM | ?wxLANGUAGE_MALAY_MALAYSIA | ?
wxLANGUAGE_MALTESE | ?wxLANGUAGE_MANIPURI | ?wxLANGUAGE_MAORI | ?
wxLANGUAGE_MARATHI | ?wxLANGUAGE_MOLDAVIAN | ?wxLANGUAGE_MONGOLIAN
| ?wxLANGUAGE_NAURU | ?wxLANGUAGE_NEPALI | ?wxLANGUAGE_NEPALI_INDIA
| ?wxLANGUAGE_NORWEGIAN_BOKMAL | ?wxLANGUAGE_NORWEGIAN_NYNORSK | ?
wxLANGUAGE_OCCITAN | ?wxLANGUAGE_ORIYA | ?wxLANGUAGE_OROMO | ?
wxLANGUAGE_PASHTO | ?wxLANGUAGE_POLISH | ?wxLANGUAGE_PORTUGUESE | ?
wxLANGUAGE_PORTUGUESE_BRAZILIAN | ?wxLANGUAGE_PUNJABI | ?wxLANGUAGE_QUECHUA
| ?wxLANGUAGE_RHAETO_ROMANCE | ?wxLANGUAGE_ROMANIAN | ?wxLANGUAGE_RUSSIAN
| ?wxLANGUAGE_RUSSIAN_UKRANE | ?wxLANGUAGE_SAMOAN | ?wxLANGUAGE_SANGHO
| ?wxLANGUAGE_SANSKRIT | ?wxLANGUAGE_SCOTS_GAELIC | ?wxLANGUAGE_SERBIAN
| ?wxLANGUAGE_SERBIAN_CYRILLIC | ?wxLANGUAGE_SERBIAN_LATIN | ?
wxLANGUAGE_SERBO_CROATIAN | ?wxLANGUAGE_SESOTHO | ?wxLANGUAGE_SETSWANA
| ?wxLANGUAGE_SHONA | ?wxLANGUAGE_SINDHI | ?wxLANGUAGE_SINHALESE | ?
wxLANGUAGE_SISWATI | ?wxLANGUAGE_SLOVAK | ?wxLANGUAGE_SLOVENIAN | ?
wxLANGUAGE_SOMALI | ?wxLANGUAGE_SPANISH | ?wxLANGUAGE_SPANISH_ARGENTINA | ?
wxLANGUAGE_SPANISH_BOLIVIA | ?wxLANGUAGE_SPANISH_CHILE | ?
wxLANGUAGE_SPANISH_COLOMBIA | ?wxLANGUAGE_SPANISH_COSTA_RICA | ?
wxLANGUAGE_SPANISH_DOMINICAN_REPUBLIC | ?wxLANGUAGE_SPANISH_ECUADOR | ?
wxLANGUAGE_SPANISH_EL_SALVADOR | ?wxLANGUAGE_SPANISH_GUATEMALA | ?
wxLANGUAGE_SPANISH_HONDURAS | ?wxLANGUAGE_SPANISH_MEXICAN | ?
wxLANGUAGE_SPANISH_MODERN | ?wxLANGUAGE_SPANISH_NICARAGUA | ?
wxLANGUAGE_SPANISH_PANAMA | ?wxLANGUAGE_SPANISH_PARAGUAY | ?
wxLANGUAGE_SPANISH_PERU | ?wxLANGUAGE_SPANISH_PUERTO_RICO | ?
wxLANGUAGE_SPANISH_URUGUAY | ?wxLANGUAGE_SPANISH_US | ?
wxLANGUAGE_SPANISH_VENEZUELA | ?wxLANGUAGE_SUNDANESE | ?wxLANGUAGE_SWAHILI
| ?wxLANGUAGE_SWEDISH | ?wxLANGUAGE_SWEDISH_FINLAND | ?wxLANGUAGE_TAGALOG | ?
wxLANGUAGE_TAJIK | ?wxLANGUAGE_TAMIL | ?wxLANGUAGE_TATAR | ?wxLANGUAGE_TELUGU
| ?wxLANGUAGE_THAI | ?wxLANGUAGE_TIBETAN | ?wxLANGUAGE_TIGRINYA | ?
wxLANGUAGE_TONGA | ?wxLANGUAGE_TSONGA | ?wxLANGUAGE_TURKISH | ?
wxLANGUAGE_TURKMEN | ?wxLANGUAGE_TWI | ?wxLANGUAGE_UIGHUR | ?
wxLANGUAGE_UKRAINIAN | ?wxLANGUAGE_URDU | ?wxLANGUAGE_URDU_INDIA | ?
wxLANGUAGE_URDU_PAKISTAN | ?wxLANGUAGE_UZBEK | ?wxLANGUAGE_UZBEK_CYRILLIC | ?
wxLANGUAGE_UZBEK_LATIN | ?wxLANGUAGE_VIETNAMESE | ?wxLANGUAGE_VOLAPUK | ?
wxLANGUAGE_WELSH | ?wxLANGUAGE_WOLOF | ?wxLANGUAGE_XHOSA | ?wxLANGUAGE_YIDDISH
| ?wxLANGUAGE_YORUBA | ?wxLANGUAGE_ZHUANG | ?wxLANGUAGE_ZULU | ?
wxLANGUAGE_USER_DEFINED | ?wxLANGUAGE_VALENCIAN | ?wxLANGUAGE_SAMI

```

`addCatalogLookupPathPrefix(Prefix) -> ok`

Types:

`Prefix = unicode:chardata()`

See external documentation.

wxLocale

getCanonicalName(This) -> unicode:charlist()

Types:

`This = wxLocale()`

See [external documentation](#).

getLanguage(This) -> integer()

Types:

`This = wxLocale()`

See [external documentation](#).

getLanguageName(Lang) -> unicode:charlist()

Types:

`Lang = integer()`

See [external documentation](#).

getLocale(This) -> unicode:charlist()

Types:

`This = wxLocale()`

See [external documentation](#).

getName(This) -> unicode:charlist()

Types:

`This = wxLocale()`

See [external documentation](#).

getString(This, SzOrigString) -> unicode:charlist()

Types:

`This = wxLocale()`

`SzOrigString = unicode:chardata()`

Equivalent to `getString(This, SzOrigString, [])`.

getString(This, SzOrigString, Options:[Option]) -> unicode:charlist()

Types:

`This = wxLocale()`

`SzOrigString = unicode:chardata()`

`Option = {szDomain, unicode:chardata()}`

See [external documentation](#).

getString(This, SzOrigString, SzOrigString2, N) -> unicode:charlist()

Types:

`This = wxLocale()`

`SzOrigString = unicode:chardata()`

`SzOrigString2 = unicode:chardata()`

```
N = integer()
```

Equivalent to `getString(This, SzOrigString, SzOrigString2, N, []).`

```
getString(This, SzOrigString, SzOrigString2, N, Options::[Option]) ->
unicode:charlist()
```

Types:

```
This = wxLocale()
SzOrigString = unicode:chardata()
SzOrigString2 = unicode:chardata()
N = integer()
Option = {szDomain, unicode:chardata()}
```

See [external documentation](#).

```
getHeaderValue(This, SzHeader) -> unicode:charlist()
```

Types:

```
This = wxLocale()
SzHeader = unicode:chardata()
```

Equivalent to `getHeaderValue(This, SzHeader, []).`

```
getHeaderValue(This, SzHeader, Options::[Option]) -> unicode:charlist()
```

Types:

```
This = wxLocale()
SzHeader = unicode:chardata()
Option = {szDomain, unicode:chardata()}
```

See [external documentation](#).

```
getSysName(This) -> unicode:charlist()
```

Types:

```
This = wxLocale()
```

See [external documentation](#).

```
getSystemEncoding() -> wx:wx_enum()
```

See [external documentation](#).

Res	=	?wxFONTENCODING_SYSTEM		?wxFONTENCODING_DEFAULT		?
wxFONTENCODING_ISO8859_1		?wxFONTENCODING_ISO8859_2		?wxFONTENCODING_ISO8859_3		?
wxFONTENCODING_ISO8859_4		?wxFONTENCODING_ISO8859_5		?wxFONTENCODING_ISO8859_6		?
wxFONTENCODING_ISO8859_7		?wxFONTENCODING_ISO8859_8		?wxFONTENCODING_ISO8859_9		?
wxFONTENCODING_ISO8859_10		?wxFONTENCODING_ISO8859_11		?wxFONTENCODING_ISO8859_12		?
?wxFONTENCODING_ISO8859_13		?wxFONTENCODING_ISO8859_14		?wxFONTENCODING_ISO8859_15		?
?wxFONTENCODING_ISO8859_MAX		?wxFONTENCODING_KOI8		?wxFONTENCODING_KOI8_U		?
?wxFONTENCODING_ALTERNATIVE		?wxFONTENCODING_BULGARIAN		?		
wxFONTENCODING_CP437		?wxFONTENCODING_CP850		?wxFONTENCODING_CP852		?
wxFONTENCODING_CP855		?wxFONTENCODING_CP866		?wxFONTENCODING_CP874		?
wxFONTENCODING_CP932		?wxFONTENCODING_CP936		?wxFONTENCODING_CP949		?
wxFONTENCODING_CP950		?wxFONTENCODING_CP1250		?wxFONTENCODING_CP1251		?

wxLocale

```
wxFONTENCODING_CP1252 | ?wxFONTENCODING_CP1253 | ?wxFONTENCODING_CP1254 | ?
wxFONTENCODING_CP1255 | ?wxFONTENCODING_CP1256 | ?wxFONTENCODING_CP1257 | ?
wxFONTENCODING_CP12_MAX | ?wxFONTENCODING_UTF7 | ?wxFONTENCODING_UTF8 | ?
wxFONTENCODING_EUC_JP | ?wxFONTENCODING_UTF16BE | ?wxFONTENCODING_UTF16LE | ?
wxFONTENCODING_UTF32BE | ?wxFONTENCODING_UTF32LE | ?wxFONTENCODING_MACROMAN
| ?wxFONTENCODING_MACJAPANESE | ?wxFONTENCODING_MACCHINESETRAD | ?
wxFONTENCODING_MACKOREAN | ?wxFONTENCODING_MACARABIC | ?
wxFONTENCODING_MACHEBREW | ?wxFONTENCODING_MACGREEK | ?
wxFONTENCODING_MACCYRILLIC | ?wxFONTENCODING_MACDEVANAGARI | ?
wxFONTENCODING_MACGURMUKHI | ?wxFONTENCODING_MACGUJARATI | ?
wxFONTENCODING_MACORIYA | ?wxFONTENCODING_MACBENGALI | ?
wxFONTENCODING_MACTAMIL | ?wxFONTENCODING_MACTELUGU | ?
wxFONTENCODING_MACKANNADA | ?wxFONTENCODING_MACMALAJALAM | ?
wxFONTENCODING_MACSINHALESE | ?wxFONTENCODING_MACBURMESE | ?
wxFONTENCODING_MACKHMER | ?wxFONTENCODING_MACTHAI | ?
wxFONTENCODING_MACLAOTIAN | ?wxFONTENCODING_MACGEORGIAN | ?
wxFONTENCODING_MACARMENIAN | ?wxFONTENCODING_MACCHINESIMP | ?
wxFONTENCODING_MACTIBETAN | ?wxFONTENCODING_MACMONGOLIAN | ?
wxFONTENCODING_MACETHIOPIC | ?wxFONTENCODING_MACCENTRALEUR | ?
wxFONTENCODING_MACVIATNAMESE | ?wxFONTENCODING_MACARABICEXT | ?
wxFONTENCODING_MACSYMBOL | ?wxFONTENCODING_MACDINGBATS | ?
wxFONTENCODING_MACTURKISH | ?wxFONTENCODING_MACCROATIAN | ?
wxFONTENCODING_MACICELANDIC | ?wxFONTENCODING_MACROMANIAN | ?
wxFONTENCODING_MACCELTIC | ?wxFONTENCODING_MACGAELIC | ?
wxFONTENCODING_MACKEYBOARD | ?wxFONTENCODING_MAX | ?wxFONTENCODING_MACMIN
| ?wxFONTENCODING_MACMAX | ?wxFONTENCODING_UTF16 | ?wxFONTENCODING_UTF32 | ?
wxFONTENCODING_UNICODE | ?wxFONTENCODING_GB2312 | ?wxFONTENCODING_BIG5 | ?
wxFONTENCODING_SHIFT_JIS
```

`getSystemEncodingName() -> unicode:charlist()`

See [external documentation](#).

`getSystemLanguage() -> integer()`

See [external documentation](#).

`isLoaded(This, SzDomain) -> boolean()`

Types:

```
This = wxLocale()
SzDomain = unicode:chardata()
```

See [external documentation](#).

`isOk(This) -> boolean()`

Types:

```
This = wxLocale()
```

See [external documentation](#).

`destroy(This::wxLocale()) -> ok`

Destroys this object, do not use object again

wxLogNull

Erlang module

See external documentation: **wxLogNull**.

DATA TYPES

`wxLogNull()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxLogNull()`

See **external documentation**.

`destroy(This::wxLogNull()) -> ok`

Destroys this object, do not use object again

wxMDIChildFrame

Erlang module

See external documentation: **wxMDIChildFrame**.

This class is derived (and can use functions) from:

wxFrme

wxTopLevelWindow

wxWindow

wxEvtHandler

DATA TYPES

`wxMDIChildFrame()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxMDIChildFrame()`

See **external documentation**.

`new(Parent, Id, Title) -> wxMDIChildFrame()`

Types:

```
Parent = wxMDIParentFrame:wxMDIParentFrame()  
Id = integer()  
Title = unicode:chardata()
```

Equivalent to `new(Parent, Id, Title, [])`.

`new(Parent, Id, Title, Options:[Option]) -> wxMDIChildFrame()`

Types:

```
Parent = wxMDIParentFrame:wxMDIParentFrame()  
Id = integer()  
Title = unicode:chardata()  
Option = {pos, {X::integer(), Y::integer()}} | {size, {W::integer(),  
H::integer()}} | {style, integer()}
```

See **external documentation**.

`activate(This) -> ok`

Types:

```
This = wxMDIChildFrame()
```

See **external documentation**.

```
create(This, Parent, Id, Title) -> boolean()
```

Types:

```
This = wxMDIChildFrame()
Parent = wxMDIParentFrame:wxMDIParentFrame()
Id = integer()
Title = unicode:chardata()
```

Equivalent to *create(This, Parent, Id, Title, [])*.

```
create(This, Parent, Id, Title, Options:[Option]) -> boolean()
```

Types:

```
This = wxMDIChildFrame()
Parent = wxMDIParentFrame:wxMDIParentFrame()
Id = integer()
Title = unicode:chardata()
Option = {pos, {X::integer(), Y::integer()}} | {size, {W::integer(),
H::integer()}} | {style, integer()}
```

See **external documentation**.

```
maximize(This) -> ok
```

Types:

```
This = wxMDIChildFrame()
```

Equivalent to *maximize(This, [])*.

```
maximize(This, Options:[Option]) -> ok
```

Types:

```
This = wxMDIChildFrame()
Option = {maximize, boolean()}
```

See **external documentation**.

```
restore(This) -> ok
```

Types:

```
This = wxMDIChildFrame()
```

See **external documentation**.

```
destroy(This::wxMDIChildFrame()) -> ok
```

Destroys this object, do not use object again

wxMDIClientWindow

Erlang module

See external documentation: **wxMDIClientWindow**.

This class is derived (and can use functions) from:

wxWindow

wxEvtHandler

DATA TYPES

`wxMDIClientWindow()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxMDIClientWindow()`

See **external documentation**.

`new(Parent) -> wxMDIClientWindow()`

Types:

`Parent = wxMDIParentFrame:wxMDIParentFrame()`

This function is deprecated: deprecated function not available in wxWidgets-2.9 and later

Equivalent to `new(Parent, [])`.

`new(Parent, Options::[Option]) -> wxMDIClientWindow()`

Types:

`Parent = wxMDIParentFrame:wxMDIParentFrame()`

`Option = {style, integer()}`

This function is deprecated: deprecated function not available in wxWidgets-2.9 and later

See **external documentation**.

`createClient(This, Parent) -> boolean()`

Types:

`This = wxMDIClientWindow()`

`Parent = wxMDIParentFrame:wxMDIParentFrame()`

Equivalent to `createClient(This, Parent, [])`.

`createClient(This, Parent, Options::[Option]) -> boolean()`

Types:

`This = wxMDIClientWindow()`

`Parent = wxMDIParentFrame:wxMDIParentFrame()`

`Option = {style, integer()}`

See [external documentation](#).

`destroy(This::wxMDIClientWindow()) -> ok`

Destroys this object, do not use object again

wxMDIParentFrame

Erlang module

See external documentation: **wxMDIParentFrame**.

This class is derived (and can use functions) from:

wxFrame
wxTopLevelWindow
wxWindow
wxEvtHandler

DATA TYPES

`wxMDIParentFrame()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxMDIParentFrame()`

See **external documentation**.

`new(Parent, Id, Title) -> wxMDIParentFrame()`

Types:

```
Parent = wxWindow:wxWindow()
Id = integer()
Title = unicode:chardata()
```

Equivalent to `new(Parent, Id, Title, [])`.

`new(Parent, Id, Title, Options:[Option]) -> wxMDIParentFrame()`

Types:

```
Parent = wxWindow:wxWindow()
Id = integer()
Title = unicode:chardata()
Option = {pos, {X::integer(), Y::integer()}} | {size, {W::integer(),
H::integer()}} | {style, integer()}
```

See **external documentation**.

`activateNext(This) -> ok`

Types:

```
This = wxMDIParentFrame()
```

See **external documentation**.

activatePrevious(This) -> ok

Types:

This = wxMDIParentFrame()

See **external documentation**.

arrangeIcons(This) -> ok

Types:

This = wxMDIParentFrame()

See **external documentation**.

cascade(This) -> ok

Types:

This = wxMDIParentFrame()

See **external documentation**.

create(This, Parent, Id, Title) -> boolean()

Types:

This = wxMDIParentFrame()
Parent = wxWindow:wxWindow()
Id = integer()
Title = unicode:chardata()

Equivalent to *create(This, Parent, Id, Title, [])*.

create(This, Parent, Id, Title, Options:[Option]) -> boolean()

Types:

This = wxMDIParentFrame()
Parent = wxWindow:wxWindow()
Id = integer()
Title = unicode:chardata()
Option = {pos, {X::integer(), Y::integer()}} | {size, {W::integer(), H::integer()}} | {style, integer()}

See **external documentation**.

getActiveChild(This) -> wxMDIChildFrame:wxMDIChildFrame()

Types:

This = wxMDIParentFrame()

See **external documentation**.

getClientWindow(This) -> wxMDIClientWindow:wxMDIClientWindow()

Types:

This = wxMDIParentFrame()

See **external documentation**.

wxMDIParentFrame

`tile(This) -> ok`

Types:

`This = wxMDIParentFrame()`

Equivalent to `tile(This, [])`.

`tile(This, Options:[Option]) -> ok`

Types:

`This = wxMDIParentFrame()`

`Option = {orient, wx:wx_enum()}`

See [external documentation](#).

Orient = ?wxHORIZONTAL | ?wxVERTICAL | ?wxBOTH

`destroy(This::wxMDIParentFrame()) -> ok`

Destroys this object, do not use object again

wxMask

Erlang module

See external documentation: **wxMask**.

DATA TYPES

`wxMask()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxMask()`

See **external documentation**.

`new(Bitmap) -> wxMask()`

Types:

`Bitmap = wxBitmap:wxBitmap()`

See **external documentation**.

`new(Bitmap, PaletteIndex) -> wxMask()`

Types:

`Bitmap = wxBitmap:wxBitmap()`

`PaletteIndex = integer()`

See **external documentation**.

Also:

`new(Bitmap, Colour) -> wxMask() when
Bitmap::wxBitmap:wxBitmap(), Colour::wx:wx_colour().`

`create(This, Bitmap) -> boolean()`

Types:

`This = wxMask()`

`Bitmap = wxBitmap:wxBitmap()`

See **external documentation**.

`create(This, Bitmap, PaletteIndex) -> boolean()`

Types:

`This = wxMask()`

`Bitmap = wxBitmap:wxBitmap()`

`PaletteIndex = integer()`

See **external documentation**.

Also:

wxMask

create(This, Bitmap, Colour) -> boolean() when
This::wxMask(), Bitmap::wxBitmap:wxBitmap(), Colour::wx:wx_colour().

destroy(This::wxMask()) -> ok

Destroys this object, do not use object again

wxMaximizeEvent

Erlang module

See external documentation: **wxMaximizeEvent**.

Use *wxEvtHandler:connect/3* with EventType:

maximize

See also the message variant `#wxMaximize{}` event record type.

This class is derived (and can use functions) from:

wxEvent

DATA TYPES

`wxMaximizeEvent()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

wxMemoryDC

Erlang module

See external documentation: **wxMemoryDC**.

This class is derived (and can use functions) from:
wxDC

DATA TYPES

wxMemoryDC()

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

new() -> wxMemoryDC()

See **external documentation**.

new(Dc) -> wxMemoryDC()

Types:

Dc = wxDC:wxDC() | wxBitmap:wxBitmap()

See **external documentation**.

selectObject(This, Bmp) -> ok

Types:

This = wxMemoryDC()
Bmp = wxBitmap:wxBitmap()

See **external documentation**.

selectObjectAsSource(This, Bmp) -> ok

Types:

This = wxMemoryDC()
Bmp = wxBitmap:wxBitmap()

See **external documentation**.

destroy(This::wxMemoryDC()) -> ok

Destroys this object, do not use object again

wxMenu

Erlang module

See external documentation: **wxMenu**.

This class is derived (and can use functions) from:
wxEvtHandler

DATA TYPES

`wxMenu()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxMenu()`

Equivalent to `new([])`.

`new(Options :: [Option]) -> wxMenu()`

Types:

`Option = {style, integer()}`

See external documentation.

`new>Title, Options :: [Option]) -> wxMenu()`

Types:

`Title = unicode:chardata()`

`Option = {style, integer()}`

See external documentation.

`append(This, Item) -> wxMenuItem:wxMenuItem()`

Types:

`This = wxMenu()`

`Item = wxMenuItem:wxMenuItem()`

See external documentation.

`append(This, Itemid, Text) -> wxMenuItem:wxMenuItem()`

Types:

`This = wxMenu()`

`Itemid = integer()`

`Text = unicode:chardata()`

Equivalent to `append(This, Itemid, Text, [])`.

wxMenu

append(This, Itemid, Text, Submenu) -> wxMenuItem:wxMenuItem()

Types:

```
This = wxMenu()
Itemid = integer()
Text = unicode:chardata()
Submenu = wxMenu()
```

See [external documentation](#).

Also:

append(This, Itemid, Text, [Option]) -> wxMenuItem:wxMenuItem() when

This::wxMenu(), Itemid::integer(), Text::unicode:chardata(),

Option :: {'help', unicode:chardata()}

| {'kind', wx:wx_enum()}.

Kind = ?wxITEM_SEPARATOR | ?wxITEM_NORMAL | ?wxITEM_CHECK | ?wxITEM_RADIO | ?
wxITEM_MAX

append(This, Itemid, Text, Help, IsCheckable) -> ok

Types:

```
This = wxMenu()
Itemid = integer()
Text = unicode:chardata()
Help = unicode:chardata()
IsCheckable = boolean()
```

See [external documentation](#).

Also:

append(This, Itemid, Text, Submenu, [Option]) -> wxMenuItem:wxMenuItem() when

This::wxMenu(), Itemid::integer(), Text::unicode:chardata(), Submenu::wxMenu(),

Option :: {'help', unicode:chardata()}.

appendCheckItem(This, Itemid, Text) -> wxMenuItem:wxMenuItem()

Types:

```
This = wxMenu()
Itemid = integer()
Text = unicode:chardata()
```

Equivalent to *appendCheckItem(This, Itemid, Text, [])*.

appendCheckItem(This, Itemid, Text, Options:[Option]) ->
wxMenuItem:wxMenuItem()

Types:

```
This = wxMenu()
Itemid = integer()
Text = unicode:chardata()
Option = {help, unicode:chardata()}
```

See [external documentation](#).

```
appendRadioItem(This, Itemid, Text) -> wxMenuItem:wxMenuItem()
```

Types:

```
This = wxMenu()
Itemid = integer()
Text = unicode:chardata()
```

Equivalent to *appendRadioItem(This, Itemid, Text, [])*.

```
appendRadioItem(This, Itemid, Text, Options::[Option]) ->
wxMenuItem:wxMenuItem()
```

Types:

```
This = wxMenu()
Itemid = integer()
Text = unicode:chardata()
Option = {help, unicode:chardata()}
```

See **external documentation**.

```
appendSeparator(This) -> wxMenuItem:wxMenuItem()
```

Types:

```
This = wxMenu()
```

See **external documentation**.

```
break(This) -> ok
```

Types:

```
This = wxMenu()
```

See **external documentation**.

```
check(This, Itemid, Check) -> ok
```

Types:

```
This = wxMenu()
Itemid = integer()
Check = boolean()
```

See **external documentation**.

```
delete(This, Itemid) -> boolean()
```

Types:

```
This = wxMenu()
Itemid = integer()
```

See **external documentation**.

Also:

`delete(This, Item) -> boolean()` when
This::wxMenu(), Item::wxMenuItem:wxMenuItem().

```
Destroy(This, Itemid) -> boolean()
```

Types:

wxMenu

```
This = wxMenu()
Itemid = integer()
```

See [external documentation](#).

Also:

'Destroy'(This, Item) -> boolean() when
This::wxMenu(), Item::wxMenuItem:wxMenuItem().

enable(This, Itemid, Enable) -> ok

Types:

```
This = wxMenu()
Itemid = integer()
Enable = boolean()
```

See [external documentation](#).

findItem(This, Itemid) -> wxMenuItem:wxMenuItem()

Types:

```
This = wxMenu()
Itemid = integer()
```

See [external documentation](#).

Also:

findItem(This, Item) -> integer() when
This::wxMenu(), Item::unicode:chardata().

findItemByPosition(This, Position) -> wxMenuItem:wxMenuItem()

Types:

```
This = wxMenu()
Position = integer()
```

See [external documentation](#).

getHelpString(This, Itemid) -> unicode:charlist()

Types:

```
This = wxMenu()
Itemid = integer()
```

See [external documentation](#).

getLabel(This, Itemid) -> unicode:charlist()

Types:

```
This = wxMenu()
Itemid = integer()
```

See [external documentation](#).

getMenuItemCount(This) -> integer()

Types:

```
This = wxMenu()
```

See [external documentation](#).

```
getMenuItems(This) -> [wxMenuItem:wxMenuItem()]
```

Types:

```
This = wxMenu()
```

See [external documentation](#).

```
getTitle(This) -> unicode:charlist()
```

Types:

```
This = wxMenu()
```

See [external documentation](#).

```
insert(This, Pos, Itemid) -> wxMenuItem:wxMenuItem()
```

Types:

```
This = wxMenu()
```

```
Pos = integer()
```

```
Itemid = integer()
```

See [external documentation](#).

Also:

```
insert(This, Pos, Item) -> wxMenuItem:wxMenuItem() when
```

```
This::wxMenu(), Pos::integer(), Item::wxMenuItem:wxMenuItem().
```

```
Kind = ?wxITEM_SEPARATOR | ?wxITEM_NORMAL | ?wxITEM_CHECK | ?wxITEM_RADIO | ?  
wxITEM_MAX
```

```
insert(This, Pos, Itemid, Options::[Option]) -> wxMenuItem:wxMenuItem()
```

Types:

```
This = wxMenu()
```

```
Pos = integer()
```

```
Itemid = integer()
```

```
Option = {text, unicode:chardata()} | {help, unicode:chardata()} | {kind,  
wx:wx_enum()}
```

See [external documentation](#).

```
Kind = ?wxITEM_SEPARATOR | ?wxITEM_NORMAL | ?wxITEM_CHECK | ?wxITEM_RADIO | ?  
wxITEM_MAX
```

```
insert(This, Pos, Itemid, Text, Submenu) -> wxMenuItem:wxMenuItem()
```

Types:

```
This = wxMenu()
```

```
Pos = integer()
```

```
Itemid = integer()
```

```
Text = unicode:chardata()
```

```
Submenu = wxMenu()
```

Equivalent to `insert(This, Pos, Itemid, Text, Submenu, [])`.

wxMenu

`insert(This, Pos, Itemid, Text, Help, IsCheckable) -> ok`

Types:

```
This = wxMenu()
Pos = integer()
Itemid = integer()
Text = unicode:chardata()
Help = unicode:chardata()
IsCheckable = boolean()
```

See [external documentation](#).

Also:

`insert(This, Pos, Itemid, Text, Submenu, [Option]) -> wxMenuItem:wxMenuItem()` when
This::wxMenu(), Pos::integer(), Itemid::integer(), Text::unicode:chardata(), Submenu::wxMenu(),
Option :: {'help', unicode:chardata()}.

`insertCheckItem(This, Pos, Itemid, Text) -> wxMenuItem:wxMenuItem()`

Types:

```
This = wxMenu()
Pos = integer()
Itemid = integer()
Text = unicode:chardata()
```

Equivalent to `insertCheckItem(This, Pos, Itemid, Text, [])`.

`insertCheckItem(This, Pos, Itemid, Text, Options::[Option]) -> wxMenuItem:wxMenuItem()`

Types:

```
This = wxMenu()
Pos = integer()
Itemid = integer()
Text = unicode:chardata()
Option = {help, unicode:chardata()}
```

See [external documentation](#).

`insertRadioItem(This, Pos, Itemid, Text) -> wxMenuItem:wxMenuItem()`

Types:

```
This = wxMenu()
Pos = integer()
Itemid = integer()
Text = unicode:chardata()
```

Equivalent to `insertRadioItem(This, Pos, Itemid, Text, [])`.

`insertRadioItem(This, Pos, Itemid, Text, Options::[Option]) -> wxMenuItem:wxMenuItem()`

Types:

```
This = wxMenu()
```

```
Pos = integer()
Itemid = integer()
Text = unicode:chardata()
Option = {help, unicode:chardata()}
```

See [external documentation](#).

insertSeparator(This, Pos) -> wxMenuItem:wxMenuItem()

Types:

```
This = wxMenu()
Pos = integer()
```

See [external documentation](#).

isChecked(This, Itemid) -> boolean()

Types:

```
This = wxMenu()
Itemid = integer()
```

See [external documentation](#).

isEnabled(This, Itemid) -> boolean()

Types:

```
This = wxMenu()
Itemid = integer()
```

See [external documentation](#).

prepend(This, Itemid) -> wxMenuItem:wxMenuItem()

Types:

```
This = wxMenu()
Itemid = integer()
```

See [external documentation](#).

Also:

prepend(This, Item) -> wxMenuItem:wxMenuItem() when
This::wxMenu(), Item::wxMenuItem:wxMenuItem().

Kind = ?wxITEM_SEPARATOR | ?wxITEM_NORMAL | ?wxITEM_CHECK | ?wxITEM_RADIO | ?wxITEM_MAX

prepend(This, Itemid, Options:[Option]) -> wxMenuItem:wxMenuItem()

Types:

```
This = wxMenu()
Itemid = integer()
Option = {text, unicode:chardata()} | {help, unicode:chardata()} | {kind,
wx:wx_enum()}
```

See [external documentation](#).

Kind = ?wxITEM_SEPARATOR | ?wxITEM_NORMAL | ?wxITEM_CHECK | ?wxITEM_RADIO | ?wxITEM_MAX

wxMenu

`prepend(This, Itemid, Text, Submenu) -> wxMenuItem:wxMenuItem()`
Types:

```
This = wxMenu()
Itemid = integer()
Text = unicode:chardata()
Submenu = wxMenu()
```

Equivalent to `prepend(This, Itemid, Text, Submenu, [])`.

`prepend(This, Itemid, Text, Help, IsCheckable) -> ok`

Types:

```
This = wxMenu()
Itemid = integer()
Text = unicode:chardata()
Help = unicode:chardata()
IsCheckable = boolean()
```

See [external documentation](#).

Also:

`prepend(This, Itemid, Text, Submenu, [Option]) -> wxMenuItem:wxMenuItem()` when
This::wxMenu(), Itemid::integer(), Text::unicode:chardata(), Submenu::wxMenu(),
Option :: {'help', unicode:chardata()}.

`prependCheckItem(This, Itemid, Text) -> wxMenuItem:wxMenuItem()`

Types:

```
This = wxMenu()
Itemid = integer()
Text = unicode:chardata()
```

Equivalent to `prependCheckItem(This, Itemid, Text, [])`.

`prependCheckItem(This, Itemid, Text, Options:[Option]) -> wxMenuItem:wxMenuItem()`

Types:

```
This = wxMenu()
Itemid = integer()
Text = unicode:chardata()
Option = {help, unicode:chardata()}
```

See [external documentation](#).

`prependRadioItem(This, Itemid, Text) -> wxMenuItem:wxMenuItem()`

Types:

```
This = wxMenu()
Itemid = integer()
Text = unicode:chardata()
```

Equivalent to `prependRadioItem(This, Itemid, Text, [])`.

```
prependRadioItem(This, Itemid, Text, Options::[Option]) ->
wxMenuItem:wxMenuItem()
```

Types:

```
This = wxMenu()
Itemid = integer()
Text = unicode:chardata()
Option = {help, unicode:chardata()}
```

See [external documentation](#).

```
prependSeparator(This) -> wxMenuItem:wxMenuItem()
```

Types:

```
This = wxMenu()
```

See [external documentation](#).

```
remove(This, Itemid) -> wxMenuItem:wxMenuItem()
```

Types:

```
This = wxMenu()
Itemid = integer()
```

See [external documentation](#).

Also:

```
remove(This, Item) -> wxMenuItem:wxMenuItem() when
This::wxMenu(), Item::wxMenuItem:wxMenuItem().
```

```
setHelpString(This, Itemid, HelpString) -> ok
```

Types:

```
This = wxMenu()
Itemid = integer()
HelpString = unicode:chardata()
```

See [external documentation](#).

```
setLabel(This, Itemid, Label) -> ok
```

Types:

```
This = wxMenu()
Itemid = integer()
Label = unicode:chardata()
```

See [external documentation](#).

```
setTitle(This, Title) -> ok
```

Types:

```
This = wxMenu()
Title = unicode:chardata()
```

See [external documentation](#).

wxMenu

destroy(This::wxMenu()) -> ok

Destroys this object, do not use object again

wxMenuBar

Erlang module

See external documentation: **wxMenuBar**.

This class is derived (and can use functions) from:

wxWindow

wxEvtHandler

DATA TYPES

`wxMenuBar()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxMenuBar()`

See **external documentation**.

`new(Style) -> wxMenuBar()`

Types:

`Style = integer()`

See **external documentation**.

`append(This, Menu, Title) -> boolean()`

Types:

`This = wxMenuBar()`

`Menu = wxMenu:wxMenu()`

`Title = unicode:chardata()`

See **external documentation**.

`check(This, Itemid, Check) -> ok`

Types:

`This = wxMenuBar()`

`Itemid = integer()`

`Check = boolean()`

See **external documentation**.

`enable(This) -> boolean()`

Types:

`This = wxMenuBar()`

Equivalent to `enable(This, [])`.

wxMenuBar

enable(This, Options::[Option]) -> boolean()

Types:

```
This = wxMenuBar()  
Option = {enable, boolean()}
```

See [external documentation](#).

enable(This, Itemid, Enable) -> ok

Types:

```
This = wxMenuBar()  
Itemid = integer()  
Enable = boolean()
```

See [external documentation](#).

enableTop(This, Pos, Flag) -> ok

Types:

```
This = wxMenuBar()  
Pos = integer()  
Flag = boolean()
```

See [external documentation](#).

findMenu(This, Title) -> integer()

Types:

```
This = wxMenuBar()  
Title = unicode:chardata()
```

See [external documentation](#).

findMenuItem(This, MenuString, ItemString) -> integer()

Types:

```
This = wxMenuBar()  
MenuString = unicode:chardata()  
ItemString = unicode:chardata()
```

See [external documentation](#).

findItem(This, Id) -> wxMenuItem:wxMenuItem()

Types:

```
This = wxMenuBar()  
Id = integer()
```

See [external documentation](#).

getHelpString(This, Itemid) -> unicode:charlist()

Types:

```
This = wxMenuBar()  
Itemid = integer()
```

See [external documentation](#).

`getLabel(This) -> unicode:charlist()`

Types:

`This = wxMenuBar()`

See [external documentation](#).

`getLabel(This, Itemid) -> unicode:charlist()`

Types:

`This = wxMenuBar()`

`Itemid = integer()`

See [external documentation](#).

`getLabelTop(This, Pos) -> unicode:charlist()`

Types:

`This = wxMenuBar()`

`Pos = integer()`

See [external documentation](#).

`getMenu(This, Pos) -> wxMenu:wxMenu()`

Types:

`This = wxMenuBar()`

`Pos = integer()`

See [external documentation](#).

`getMenuCount(This) -> integer()`

Types:

`This = wxMenuBar()`

See [external documentation](#).

`insert(This, Pos, Menu, Title) -> boolean()`

Types:

`This = wxMenuBar()`

`Pos = integer()`

`Menu = wxMenu:wxMenu()`

`Title = unicode:chardata()`

See [external documentation](#).

`isChecked(This, Itemid) -> boolean()`

Types:

`This = wxMenuBar()`

`Itemid = integer()`

See [external documentation](#).

wxMenuBar

`isEnabled(This) -> boolean()`

Types:

`This = wxMenuBar()`

See [external documentation](#).

`isEnabled(This, Itemid) -> boolean()`

Types:

`This = wxMenuBar()`

`Itemid = integer()`

See [external documentation](#).

`remove(This, Pos) -> wxMenu:wxMenu()`

Types:

`This = wxMenuBar()`

`Pos = integer()`

See [external documentation](#).

`replace(This, Pos, Menu, Title) -> wxMenu:wxMenu()`

Types:

`This = wxMenuBar()`

`Pos = integer()`

`Menu = wxMenu:wxMenu()`

`Title = unicode:chardata()`

See [external documentation](#).

`setHelpString(This, Itemid, HelpString) -> ok`

Types:

`This = wxMenuBar()`

`Itemid = integer()`

`HelpString = unicode:chardata()`

See [external documentation](#).

`setLabel(This, S) -> ok`

Types:

`This = wxMenuBar()`

`S = unicode:chardata()`

See [external documentation](#).

`setLabel(This, Itemid, Label) -> ok`

Types:

`This = wxMenuBar()`

`Itemid = integer()`

`Label = unicode:chardata()`

See [external documentation](#).

`setLabelTop(This, Pos, Label) -> ok`

Types:

```
This = wxMenuBar()
Pos = integer()
Label = unicode:chardata()
```

See [external documentation](#).

`destroy(This::wxMenuBar()) -> ok`

Destroys this object, do not use object again

wxMenuEvent

Erlang module

See external documentation: **wxMenuEvent**.

Use *wxEvtHandler:connect/3* with EventType:

menu_open, menu_close, menu_highlight

See also the message variant `#wxMenu{}` event record type.

This class is derived (and can use functions) from:

wxEvent

DATA TYPES

`wxMenuEvent()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`getMenu(This) -> wxMenu:wxMenu()`

Types:

`This = wxMenuEvent()`

See **external documentation**.

`getMenuItem(This) -> integer()`

Types:

`This = wxMenuEvent()`

See **external documentation**.

`isPopup(This) -> boolean()`

Types:

`This = wxMenuEvent()`

See **external documentation**.

wxMenuItem

Erlang module

See external documentation: **wxMenuItem**.

DATA TYPES

`wxMenuItem()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxMenuItem()`

Equivalent to `new([])`.

`new(Options :: [Option]) -> wxMenuItem()`

Types:

```
Option = {parentMenu, wxMenu:wxMenu()} | {id, integer()} | {text,
unicode:chardata()} | {help, unicode:chardata()} | {kind, wx:wx_enum()} |
{subMenu, wxMenu:wxMenu()}
```

See **external documentation**.

Kind = ?wxITEM_SEPARATOR | ?wxITEM_NORMAL | ?wxITEM_CHECK | ?wxITEM_RADIO | ?wxITEM_MAX

`check(This) -> ok`

Types:

```
This = wxMenuItem()
```

Equivalent to `check(This, [])`.

`check(This, Options :: [Option]) -> ok`

Types:

```
This = wxMenuItem()
```

```
Option = {check, boolean()}
```

See **external documentation**.

`enable(This) -> ok`

Types:

```
This = wxMenuItem()
```

Equivalent to `enable(This, [])`.

`enable(This, Options :: [Option]) -> ok`

Types:

wxMenuItem

```
This = wxMenuItem()
Option = {enable, boolean()}
```

See [external documentation](#).

getBitmap(This) -> wxBitmap:wxBitmap()

Types:

```
This = wxMenuItem()
```

See [external documentation](#).

getHelp(This) -> unicode:charlist()

Types:

```
This = wxMenuItem()
```

See [external documentation](#).

getId(This) -> integer()

Types:

```
This = wxMenuItem()
```

See [external documentation](#).

getKind(This) -> wx:wx_enum()

Types:

```
This = wxMenuItem()
```

See [external documentation](#).

Res = ?wxITEM_SEPARATOR | ?wxITEM_NORMAL | ?wxITEM_CHECK | ?wxITEM_RADIO | ?wxITEM_MAX

getLabel(This) -> unicode:charlist()

Types:

```
This = wxMenuItem()
```

See [external documentation](#).

getLabelFromText(Text) -> unicode:charlist()

Types:

```
Text = unicode:chardata()
```

See [external documentation](#).

getMenu(This) -> wxMenu:wxMenu()

Types:

```
This = wxMenuItem()
```

See [external documentation](#).

getText(This) -> unicode:charlist()

Types:

```
This = wxMenuItem()
```

See [external documentation](#).

`getSubMenu(This) -> wxMenu:wxMenu()`

Types:

`This = wxMenuItem()`

See [external documentation](#).

`isCheckable(This) -> boolean()`

Types:

`This = wxMenuItem()`

See [external documentation](#).

`isChecked(This) -> boolean()`

Types:

`This = wxMenuItem()`

See [external documentation](#).

`isEnabled(This) -> boolean()`

Types:

`This = wxMenuItem()`

See [external documentation](#).

`isSeparator(This) -> boolean()`

Types:

`This = wxMenuItem()`

See [external documentation](#).

`isSubMenu(This) -> boolean()`

Types:

`This = wxMenuItem()`

See [external documentation](#).

`setBitmap(This, Bitmap) -> ok`

Types:

`This = wxMenuItem()`

`Bitmap = wxBitmap:wxBitmap()`

See [external documentation](#).

`setHelp(This, Str) -> ok`

Types:

`This = wxMenuItem()`

`Str = unicode:chardata()`

See [external documentation](#).

wxMenuItem

setMenu(This, Menu) -> ok

Types:

```
This = wxMenuItem()
Menu = wxMenu:wxMenu()
```

See [external documentation](#).

setSubMenu(This, Menu) -> ok

Types:

```
This = wxMenuItem()
Menu = wxMenu:wxMenu()
```

See [external documentation](#).

setText(This, Str) -> ok

Types:

```
This = wxMenuItem()
Str = unicode:chardata()
```

See [external documentation](#).

destroy(This::wxMenuItem()) -> ok

Destroys this object, do not use object again

wxMessageDialog

Erlang module

See external documentation: [wxMessageDialog](#).

This class is derived (and can use functions) from:

wxDialog
wxTopLevelWindow
wxWindow
wxEvtHandler

DATA TYPES

`wxMessageDialog()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new(Parent, Message) -> wxMessageDialog()`

Types:

```
Parent = wxWindow:wxWindow()
Message = unicode:chardata()
```

Equivalent to `new(Parent, Message, [])`.

`new(Parent, Message, Options::[Option]) -> wxMessageDialog()`

Types:

```
Parent = wxWindow:wxWindow()
Message = unicode:chardata()
Option = {caption, unicode:chardata()} | {style, integer()} | {pos,
{x::integer(), y::integer()}}
```

See [external documentation](#).

`destroy(This::wxMessageDialog()) -> ok`

Destroys this object, do not use object again

wxMiniFrame

Erlang module

See external documentation: **wxMiniFrame**.

This class is derived (and can use functions) from:

wxFrame

wxTopLevelWindow

wxWindow

wxEvtHandler

DATA TYPES

`wxMiniFrame()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxMiniFrame()`

See **external documentation**.

`new(Parent, Id, Title) -> wxMiniFrame()`

Types:

```
Parent = wxWindow:wxWindow()
Id = integer()
Title = unicode:chardata()
```

Equivalent to `new(Parent, Id, Title, [])`.

`new(Parent, Id, Title, Options:[Option]) -> wxMiniFrame()`

Types:

```
Parent = wxWindow:wxWindow()
Id = integer()
Title = unicode:chardata()
Option = {pos, {X::integer(), Y::integer()}} | {size, {W::integer(),
H::integer()}} | {style, integer()}
```

See **external documentation**.

`create(This, Parent, Id, Title) -> boolean()`

Types:

```
This = wxMiniFrame()
Parent = wxWindow:wxWindow()
Id = integer()
Title = unicode:chardata()
```

Equivalent to *create(This, Parent, Id, Title, [])*.

create(This, Parent, Id, Title, Options:[Option]) -> boolean()

Types:

```
This = wxMiniFrame()
Parent = wxWindow:wxWindow()
Id = integer()
Title = unicode:chardata()
Option = {pos, {X::integer(), Y::integer()}} | {size, {W::integer(),
H::integer()}} | {style, integer()}
```

See [external documentation](#).

destroy(This::wxMiniFrame()) -> ok

Destroys this object, do not use object again

wxMirrorDC

Erlang module

See external documentation: **wxMirrorDC**.

This class is derived (and can use functions) from:
wxDC

DATA TYPES

wxMirrorDC()

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

new(Dc, Mirror) -> wxMirrorDC()

Types:

```
Dc = wxDC:wxDC()
Mirror = boolean()
```

See [external documentation](#).

destroy(This::wxMirrorDC()) -> ok

Destroys this object, do not use object again

wxMouseCaptureChangedEvent

Erlang module

See external documentation: **wxMouseCaptureChangedEvent**.

Use *wxEvtHandler:connect/3* with EventType:

mouse_capture_changed

See also the message variant *#wxMouseCaptureChanged{}* event record type.

This class is derived (and can use functions) from:

wxEvent

DATA TYPES

`wxMouseCaptureChangedEvent()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`getCapturedWindow(This) -> wxWindow:wxWindow()`

Types:

`This = wxMouseCaptureChangedEvent()`

See **external documentation**.

wxMouseCaptureLostEvent

Erlang module

See external documentation: [wxMouseCaptureLostEvent](#).

Use `wxEvtHandler:connect/3` with EventType:

mouse_capture_lost

See also the message variant `#wxMouseCaptureLost{}` event record type.

This class is derived (and can use functions) from:

wxEvent

DATA TYPES

`wxMouseCaptureLost()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

wxMouseEvent

Erlang module

See external documentation: **wxMouseEvent**.

Use *wxEvtHandler:connect/3* with EventType:

```
left_down, left_up, middle_down, middle_up, right_down, right_up, motion, enter_window,
leave_window, left_dclick, middle_dclick, right_dclick, mousewheel
```

See also the message variant `#wxMouse{}` event record type.

This class is derived (and can use functions) from:

wxEvent

DATA TYPES

`wxMouseEvent()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`altDown(This) -> boolean()`

Types:

```
This = wxMouseEvent()
```

See **external documentation**.

`button(This, But) -> boolean()`

Types:

```
This = wxMouseEvent()
```

```
But = integer()
```

See **external documentation**.

`buttonDClick(This) -> boolean()`

Types:

```
This = wxMouseEvent()
```

Equivalent to `buttonDClick(This, [])`.

`buttonDClick(This, Options:[Option]) -> boolean()`

Types:

```
This = wxMouseEvent()
```

```
Option = {but, integer()}
```

See **external documentation**.

wxMouseEvent

buttonDown(This) -> boolean()

Types:

This = wxMouseEvent()

Equivalent to *buttonDown(This, [])*.

buttonDown(This, Options::[Option]) -> boolean()

Types:

This = wxMouseEvent()

Option = {but, integer()}

See **external documentation**.

buttonUp(This) -> boolean()

Types:

This = wxMouseEvent()

Equivalent to *buttonUp(This, [])*.

buttonUp(This, Options::[Option]) -> boolean()

Types:

This = wxMouseEvent()

Option = {but, integer()}

See **external documentation**.

cmdDown(This) -> boolean()

Types:

This = wxMouseEvent()

See **external documentation**.

controlDown(This) -> boolean()

Types:

This = wxMouseEvent()

See **external documentation**.

dragging(This) -> boolean()

Types:

This = wxMouseEvent()

See **external documentation**.

entering(This) -> boolean()

Types:

This = wxMouseEvent()

See **external documentation**.

getButton(This) -> integer()

Types:

This = wxMouseEvent()

See **external documentation**.

getPosition(This) -> {X::integer(), Y::integer()}

Types:

This = wxMouseEvent()

See **external documentation**.

getLogicalPosition(This, Dc) -> {X::integer(), Y::integer()}

Types:

This = wxMouseEvent()

Dc = wxDC:wxDC()

See **external documentation**.

getLinesPerAction(This) -> integer()

Types:

This = wxMouseEvent()

See **external documentation**.

getWheelRotation(This) -> integer()

Types:

This = wxMouseEvent()

See **external documentation**.

getWheelDelta(This) -> integer()

Types:

This = wxMouseEvent()

See **external documentation**.

getX(This) -> integer()

Types:

This = wxMouseEvent()

See **external documentation**.

getY(This) -> integer()

Types:

This = wxMouseEvent()

See **external documentation**.

isButton(This) -> boolean()

Types:

wxMouseEvent

This = wxMouseEvent()

See [external documentation](#).

isPageScroll(This) -> boolean()

Types:

This = wxMouseEvent()

See [external documentation](#).

leaving(This) -> boolean()

Types:

This = wxMouseEvent()

See [external documentation](#).

leftDClick(This) -> boolean()

Types:

This = wxMouseEvent()

See [external documentation](#).

leftDown(This) -> boolean()

Types:

This = wxMouseEvent()

See [external documentation](#).

leftIsDown(This) -> boolean()

Types:

This = wxMouseEvent()

See [external documentation](#).

leftUp(This) -> boolean()

Types:

This = wxMouseEvent()

See [external documentation](#).

metaDown(This) -> boolean()

Types:

This = wxMouseEvent()

See [external documentation](#).

middleDClick(This) -> boolean()

Types:

This = wxMouseEvent()

See [external documentation](#).

middleDown(This) -> boolean()

Types:

This = wxMouseEvent()

See [external documentation](#).

middleIsDown(This) -> boolean()

Types:

This = wxMouseEvent()

See [external documentation](#).

middleUp(This) -> boolean()

Types:

This = wxMouseEvent()

See [external documentation](#).

moving(This) -> boolean()

Types:

This = wxMouseEvent()

See [external documentation](#).

rightDClick(This) -> boolean()

Types:

This = wxMouseEvent()

See [external documentation](#).

rightDown(This) -> boolean()

Types:

This = wxMouseEvent()

See [external documentation](#).

rightIsDown(This) -> boolean()

Types:

This = wxMouseEvent()

See [external documentation](#).

rightUp(This) -> boolean()

Types:

This = wxMouseEvent()

See [external documentation](#).

shiftDown(This) -> boolean()

Types:

This = wxMouseEvent()

wxMouseEvent

See **external documentation**.

wxMoveEvent

Erlang module

See external documentation: **wxMoveEvent**.

Use *wxEvtHandler:connect/3* with EventType:

move

See also the message variant `#wxMove{}` event record type.

This class is derived (and can use functions) from:

wxEvent

DATA TYPES

`wxMoveEvent()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`getPosition(This) -> {X::integer(), Y::integer()}`

Types:

`This = wxMoveEvent()`

See **external documentation**.

wxMultiChoiceDialog

Erlang module

See external documentation: **wxMultiChoiceDialog**.

This class is derived (and can use functions) from:

wxDialog
wxTopLevelWindow
wxWindow
wxEvtHandler

DATA TYPES

`wxMultiChoiceDialog()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxMultiChoiceDialog()`

See **external documentation**.

`new(Parent, Message, Caption, Choices) -> wxMultiChoiceDialog()`

Types:

```
Parent = wxWindow:wxWindow()
Message = unicode:chardata()
Caption = unicode:chardata()
Choices = [unicode:chardata()]
```

Equivalent to `new(Parent, Message, Caption, Choices, [])`.

`new(Parent, Message, Caption, Choices, Options:[Option]) -> wxMultiChoiceDialog()`

Types:

```
Parent = wxWindow:wxWindow()
Message = unicode:chardata()
Caption = unicode:chardata()
Choices = [unicode:chardata()]
Option = {style, integer()} | {pos, {X::integer(), Y::integer()}}
```

See **external documentation**.

`getSelections(This) -> [integer()]`

Types:

```
This = wxMultiChoiceDialog()
```

See **external documentation**.

`setSelections(This, Selections) -> ok`

Types:

`This = wxMultiChoiceDialog()`

`Selections = [integer()]`

See [external documentation](#).

`destroy(This::wxMultiChoiceDialog()) -> ok`

Destroys this object, do not use object again

wxNavigationKeyEvent

Erlang module

See external documentation: **wxNavigationKeyEvent**.

Use *wxEvtHandler:connect/3* with EventType:

navigation_key

See also the message variant `#wxNavigationKey{}` event record type.

This class is derived (and can use functions) from:

wxEvtHandler

DATA TYPES

`wxNavigationKeyEvent()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`getDirection(This) -> boolean()`

Types:

`This = wxNavigationKeyEvent()`

See **external documentation**.

`setDirection(This, BForward) -> ok`

Types:

`This = wxNavigationKeyEvent()`
`BForward = boolean()`

See **external documentation**.

`isWindowChange(This) -> boolean()`

Types:

`This = wxNavigationKeyEvent()`

See **external documentation**.

`setWindowChange(This, BIs) -> ok`

Types:

`This = wxNavigationKeyEvent()`
`BIs = boolean()`

See **external documentation**.

`isFromTab(This) -> boolean()`

Types:

```
This = wxNavigationKeyEvent()
```

See [external documentation](#).

```
setFromTab(This, BIs) -> ok
```

Types:

```
This = wxNavigationKeyEvent()
```

```
BIs = boolean()
```

See [external documentation](#).

```
getCurrentFocus(This) -> wxWindow:wxWindow()
```

Types:

```
This = wxNavigationKeyEvent()
```

See [external documentation](#).

```
setCurrentFocus(This, Win) -> ok
```

Types:

```
This = wxNavigationKeyEvent()
```

```
Win = wxWindow:wxWindow()
```

See [external documentation](#).

wxNotebook

Erlang module

See external documentation: **wxNotebook**.

This class is derived (and can use functions) from:

wxControl

wxWindow

wxEvtHandler

DATA TYPES

`wxNotebook()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxNotebook()`

See **external documentation**.

`new(Parent, Winid) -> wxNotebook()`

Types:

```
Parent = wxWindow:wxWindow()
Winid = integer()
```

Equivalent to `new(Parent, Winid, [])`.

`new(Parent, Winid, Options:[Option]) -> wxNotebook()`

Types:

```
Parent = wxWindow:wxWindow()
Winid = integer()
Option = {pos, {X::integer(), Y::integer()}} | {size, {W::integer(),
H::integer()}} | {style, integer()}
```

See **external documentation**.

`addPage(This, Page, Text) -> boolean()`

Types:

```
This = wxNotebook()
Page = wxWindow:wxWindow()
Text = unicode:chardata()
```

Equivalent to `addPage(This, Page, Text, [])`.

`addPage(This, Page, Text, Options:[Option]) -> boolean()`

Types:

```
This = wxNotebook()
Page = wxWindow:wxWindow()
Text = unicode:chardata()
Option = {bSelect, boolean()} | {imageId, integer()}
```

See **external documentation**.

advanceSelection(This) -> ok

Types:

```
This = wxNotebook()
```

Equivalent to *advanceSelection(This, [])*.

advanceSelection(This, Options::[Option]) -> ok

Types:

```
This = wxNotebook()
```

```
Option = {forward, boolean()}
```

See **external documentation**.

assignImageList(This, ImageList) -> ok

Types:

```
This = wxNotebook()
```

```
ImageList = wxImageList:wxImageList()
```

See **external documentation**.

create(This, Parent, Id) -> boolean()

Types:

```
This = wxNotebook()
```

```
Parent = wxWindow:wxWindow()
```

```
Id = integer()
```

Equivalent to *create(This, Parent, Id, [])*.

create(This, Parent, Id, Options::[Option]) -> boolean()

Types:

```
This = wxNotebook()
```

```
Parent = wxWindow:wxWindow()
```

```
Id = integer()
```

```
Option = {pos, {X::integer(), Y::integer()}} | {size, {W::integer(),
H::integer()}} | {style, integer()}
```

See **external documentation**.

deleteAllPages(This) -> boolean()

Types:

```
This = wxNotebook()
```

See **external documentation**.

wxNotebook

deletePage(This, NPage) -> boolean()

Types:

This = wxNotebook()

NPage = integer()

See **external documentation**.

removePage(This, NPage) -> boolean()

Types:

This = wxNotebook()

NPage = integer()

See **external documentation**.

getCurrentPage(This) -> wxWindow:wxWindow()

Types:

This = wxNotebook()

See **external documentation**.

getImageList(This) -> wxImageList:wxImageList()

Types:

This = wxNotebook()

See **external documentation**.

getPage(This, N) -> wxWindow:wxWindow()

Types:

This = wxNotebook()

N = integer()

See **external documentation**.

getPageCount(This) -> integer()

Types:

This = wxNotebook()

See **external documentation**.

getPageImage(This, NPage) -> integer()

Types:

This = wxNotebook()

NPage = integer()

See **external documentation**.

getPageText(This, NPage) -> unicode:charlist()

Types:

This = wxNotebook()

NPage = integer()

See [external documentation](#).

`getRowCount(This) -> integer()`

Types:

`This = wxNotebook()`

See [external documentation](#).

`getSelection(This) -> integer()`

Types:

`This = wxNotebook()`

See [external documentation](#).

`getThemeBackgroundColour(This) -> wx:wx_colour4()`

Types:

`This = wxNotebook()`

See [external documentation](#).

`hitTest(This, Pt) -> Result`

Types:

`Result = {Res::integer(), Flags::integer()}`

`This = wxNotebook()`

`Pt = {X::integer(), Y::integer()}`

See [external documentation](#).

`insertPage(This, Position, Win, StrText) -> boolean()`

Types:

`This = wxNotebook()`

`Position = integer()`

`Win = wxWindow:wxWindow()`

`StrText = unicode:chardata()`

Equivalent to `insertPage(This, Position, Win, StrText, [])`.

`insertPage(This, Position, Win, StrText, Options:[Option]) -> boolean()`

Types:

`This = wxNotebook()`

`Position = integer()`

`Win = wxWindow:wxWindow()`

`StrText = unicode:chardata()`

`Option = {bSelect, boolean()} | {imageId, integer()}`

See [external documentation](#).

`setImageList(This, ImageList) -> ok`

Types:

wxNotebook

```
This = wxNotebook()
ImageList = wxImageList:wxImageList()
```

See [external documentation](#).

setPadding(This, Padding) -> ok

Types:

```
This = wxNotebook()
Padding = {W::integer(), H::integer()}
```

See [external documentation](#).

setPageSize(This, Size) -> ok

Types:

```
This = wxNotebook()
Size = {W::integer(), H::integer()}
```

See [external documentation](#).

setPageImage(This, NPage, NIImage) -> boolean()

Types:

```
This = wxNotebook()
NPage = integer()
NIImage = integer()
```

See [external documentation](#).

setPageText(This, NPage, StrText) -> boolean()

Types:

```
This = wxNotebook()
NPage = integer()
StrText = unicode:chardata()
```

See [external documentation](#).

setSelection(This, NPage) -> integer()

Types:

```
This = wxNotebook()
NPage = integer()
```

See [external documentation](#).

changeSelection(This, NPage) -> integer()

Types:

```
This = wxNotebook()
NPage = integer()
```

See [external documentation](#).

`destroy(This::wxNotebook()) -> ok`

Destroys this object, do not use object again

wxNotebookEvent

Erlang module

See external documentation: **wxNotebookEvent**.

Use *wxEvtHandler:connect/3* with EventType:

command_notebook_page_changed, command_notebook_page_changing

See also the message variant `#wxNotebook{}` event record type.

This class is derived (and can use functions) from:

wxNotifyEvent

wxCommandEvent

wxEvent

DATA TYPES

`wxNotebookEvent()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`getOldSelection(This) -> integer()`

Types:

This = wxNotebookEvent()

See **external documentation**.

`getSelection(This) -> integer()`

Types:

This = wxNotebookEvent()

See **external documentation**.

`setOldSelection(This, NOldSel) -> ok`

Types:

This = wxNotebookEvent()

NOldSel = integer()

See **external documentation**.

`setSelection(This, NSel) -> ok`

Types:

This = wxNotebookEvent()

NSel = integer()

See **external documentation**.

wxNotifyEvent

Erlang module

See external documentation: **wxNotifyEvent**.

This class is derived (and can use functions) from:

wxCommandEvent

wxEvt

DATA TYPES

`wxNotifyEvent()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`allow(This) -> ok`

Types:

`This = wxNotifyEvent()`

See **external documentation**.

`isAllowed(This) -> boolean()`

Types:

`This = wxNotifyEvent()`

See **external documentation**.

`veto(This) -> ok`

Types:

`This = wxNotifyEvent()`

See **external documentation**.

wxOverlay

Erlang module

See external documentation: **wxOverlay**.

DATA TYPES

`wxOverlay()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxOverlay()`

See **external documentation**.

`reset(This) -> ok`

Types:

`This = wxOverlay()`

See **external documentation**.

`destroy(This::wxOverlay()) -> ok`

Destroys this object, do not use object again

wxPageSetupDialog

Erlang module

See external documentation: **wxPageSetupDialog**.

DATA TYPES

`wxPageSetupDialog()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new(Parent) -> wxPageSetupDialog()`

Types:

`Parent = wxWindow:wxWindow()`

Equivalent to `new(Parent, [])`.

`new(Parent, Options:[Option]) -> wxPageSetupDialog()`

Types:

`Parent = wxWindow:wxWindow()`

`Option = {data, wxPageSetupDialogData:wxPageSetupDialogData()}`

See **external documentation**.

`getPageSetupData(This) -> wxPageSetupDialogData:wxPageSetupDialogData()`

Types:

`This = wxPageSetupDialog()`

See **external documentation**.

`showModal(This) -> integer()`

Types:

`This = wxPageSetupDialog()`

See **external documentation**.

`destroy(This:wxPageSetupDialog()) -> ok`

Destroys this object, do not use object again

wxPageSetupDialogData

Erlang module

See external documentation: [wxPageSetupDialogData](#).

DATA TYPES

`wxPageSetupDialogData()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxPageSetupDialogData()`

See [external documentation](#).

`new(PrintData) -> wxPageSetupDialogData()`

Types:

`PrintData = wxPrintData:wxPrintData() | wxPageSetupDialogData()`

See [external documentation](#).

`enableHelp(This, Flag) -> ok`

Types:

`This = wxPageSetupDialogData()`
`Flag = boolean()`

See [external documentation](#).

`enableMargins(This, Flag) -> ok`

Types:

`This = wxPageSetupDialogData()`
`Flag = boolean()`

See [external documentation](#).

`enableOrientation(This, Flag) -> ok`

Types:

`This = wxPageSetupDialogData()`
`Flag = boolean()`

See [external documentation](#).

`enablePaper(This, Flag) -> ok`

Types:

`This = wxPageSetupDialogData()`
`Flag = boolean()`

See **external documentation**.

`enablePrinter(This, Flag) -> ok`

Types:

```
This = wxPageSetupDialogData()
Flag = boolean()
```

See **external documentation**.

`getDefaultMinMargins(This) -> boolean()`

Types:

```
This = wxPageSetupDialogData()
```

See **external documentation**.

`getEnableMargins(This) -> boolean()`

Types:

```
This = wxPageSetupDialogData()
```

See **external documentation**.

`getEnableOrientation(This) -> boolean()`

Types:

```
This = wxPageSetupDialogData()
```

See **external documentation**.

`getEnablePaper(This) -> boolean()`

Types:

```
This = wxPageSetupDialogData()
```

See **external documentation**.

`getEnablePrinter(This) -> boolean()`

Types:

```
This = wxPageSetupDialogData()
```

See **external documentation**.

`getEnableHelp(This) -> boolean()`

Types:

```
This = wxPageSetupDialogData()
```

See **external documentation**.

`getDefaultInfo(This) -> boolean()`

Types:

```
This = wxPageSetupDialogData()
```

See **external documentation**.

wxPageSetupDialogData

getMarginTopLeft(This) -> {X::integer(), Y::integer()}

Types:

`This = wxPageSetupDialogData()`

See [external documentation](#).

getMarginBottomRight(This) -> {X::integer(), Y::integer()}

Types:

`This = wxPageSetupDialogData()`

See [external documentation](#).

getMinMarginTopLeft(This) -> {X::integer(), Y::integer()}

Types:

`This = wxPageSetupDialogData()`

See [external documentation](#).

getMinMarginBottomRight(This) -> {X::integer(), Y::integer()}

Types:

`This = wxPageSetupDialogData()`

See [external documentation](#).

getPaperId(This) -> wx:wx_enum()

Types:

`This = wxPageSetupDialogData()`

See [external documentation](#).

Res = ?wxPAPER_NONE | ?wxPAPER_LETTER | ?wxPAPER_LEGAL | ?wxPAPER_A4 | ?wxPAPER_CSHEET
| ?wxPAPER_DSHEET | ?wxPAPER_ESHEET | ?wxPAPER_LETTERSMALL | ?wxPAPER_TABLOID
| ?wxPAPER_LEDGER | ?wxPAPER_STATEMENT | ?wxPAPER_EXECUTIVE | ?wxPAPER_A3 | ?
wxPAPER_A4SMALL | ?wxPAPER_A5 | ?wxPAPER_B4 | ?wxPAPER_B5 | ?wxPAPER_FOLIO | ?
wxPAPER_QUARTO | ?wxPAPER_10X14 | ?wxPAPER_11X17 | ?wxPAPER_NOTE | ?wxPAPER_ENV_9 | ?
wxPAPER_ENV_10 | ?wxPAPER_ENV_11 | ?wxPAPER_ENV_12 | ?wxPAPER_ENV_14 | ?wxPAPER_ENV_DL
| ?wxPAPER_ENV_C5 | ?wxPAPER_ENV_C3 | ?wxPAPER_ENV_C4 | ?wxPAPER_ENV_C6
| ?wxPAPER_ENV_C65 | ?wxPAPER_ENV_B4 | ?wxPAPER_ENV_B5 | ?wxPAPER_ENV_B6
| ?wxPAPER_ENV_ITALY | ?wxPAPER_ENV_MONARCH | ?wxPAPER_ENV_PERSONAL | ?
wxPAPER_FANFOLD_US | ?wxPAPER_FANFOLD_STD_GERMAN | ?wxPAPER_FANFOLD_LGL_GERMAN
| ?wxPAPER_ISO_B4 | ?wxPAPER_JAPANESE_POSTCARD | ?wxPAPER_9X11 | ?wxPAPER_10X11 | ?
wxPAPER_15X11 | ?wxPAPER_ENV_INVITE | ?wxPAPER LETTER_EXTRA | ?wxPAPER_LEGAL_EXTRA
| ?wxPAPER_TABLOID_EXTRA | ?wxPAPER_A4_EXTRA | ?wxPAPER LETTER_TRANSVERSE | ?
wxPAPER_A4_TRANSVERSE | ?wxPAPER LETTER_EXTRA_TRANSVERSE | ?wxPAPER_A_PLUS | ?
wxPAPER_B_PLUS | ?wxPAPER LETTER_PLUS | ?wxPAPER_A4_PLUS | ?wxPAPER_A5_TRANSVERSE | ?
wxPAPER_B5_TRANSVERSE | ?wxPAPER_A3_EXTRA | ?wxPAPER_A5_EXTRA | ?wxPAPER_B5_EXTRA
| ?wxPAPER_A2 | ?wxPAPER_A3_TRANSVERSE | ?wxPAPER_A3_EXTRA_TRANSVERSE | ?
wxPAPER_DBLE_JAPANESE_POSTCARD | ?wxPAPER_A6 | ?wxPAPER_JENV_KAKU2 | ?
wxPAPER_JENV_KAKU3 | ?wxPAPER_JENV_CHOU3 | ?wxPAPER_JENV_CHOU4 | ?
wxPAPER LETTER_ROTATED | ?wxPAPER_A3_ROTATED | ?wxPAPER_A4_ROTATED | ?
wxPAPER_A5_ROTATED | ?wxPAPER_B4_JIS_ROTATED | ?wxPAPER_B5_JIS_ROTATED | ?
wxPAPER_JAPANESE_POSTCARD_ROTATED | ?wxPAPER_DBLE_JAPANESE_POSTCARD_ROTATED | ?
wxPAPER_A6_ROTATED | ?wxPAPER_JENV_KAKU2_ROTATED | ?wxPAPER_JENV_KAKU3_ROTATED

```
| ?wxPAPER_JENV_CHOU3_ROTATED | ?wxPAPER_JENV_CHOU4_ROTATED | ?wxPAPER_B6_JIS
| ?wxPAPER_B6_JIS_ROTATED | ?wxPAPER_12X11 | ?wxPAPER_JENV_YOU4 | ?
wxPAPER_JENV_YOU4_ROTATED | ?wxPAPER_P16K | ?wxPAPER_P32K | ?wxPAPER_P32KBIG
| ?wxPAPER_PENV_1 | ?wxPAPER_PENV_2 | ?wxPAPER_PENV_3 | ?wxPAPER_PENV_4 | ?
wxPAPER_PENV_5 | ?wxPAPER_PENV_6 | ?wxPAPER_PENV_7 | ?wxPAPER_PENV_8 | ?
wxPAPER_PENV_9 | ?wxPAPER_PENV_10 | ?wxPAPER_P16K_ROTATED | ?wxPAPER_P32K_ROTATED
| ?wxPAPER_P32KBIG_ROTATED | ?wxPAPER_PENV_1_ROTATED | ?wxPAPER_PENV_2_ROTATED | ?
wxPAPER_PENV_3_ROTATED | ?wxPAPER_PENV_4_ROTATED | ?wxPAPER_PENV_5_ROTATED | ?
wxPAPER_PENV_6_ROTATED | ?wxPAPER_PENV_7_ROTATED | ?wxPAPER_PENV_8_ROTATED | ?
wxPAPER_PENV_9_ROTATED | ?wxPAPER_PENV_10_ROTATED
```

getPaperSize(This) -> {W::integer(), H::integer()}

Types:

```
This = wxPageSetupDialogData()
```

See **external documentation**.

getPrintData(This) -> wxPrintData:wxPrintData()

Types:

```
This = wxPageSetupDialogData()
```

See **external documentation**.

isOk(This) -> boolean()

Types:

```
This = wxPageSetupDialogData()
```

See **external documentation**.

setDefaultInfo(This, Flag) -> ok

Types:

```
This = wxPageSetupDialogData()
```

```
Flag = boolean()
```

See **external documentation**.

setDefaultMinMargins(This, Flag) -> ok

Types:

```
This = wxPageSetupDialogData()
```

```
Flag = boolean()
```

See **external documentation**.

setMarginTopLeft(This, Pt) -> ok

Types:

```
This = wxPageSetupDialogData()
```

```
Pt = {X::integer(), Y::integer()}
```

See **external documentation**.

wxPageSetupDialogData

setMarginBottomRight(This, Pt) -> ok

Types:

```
This = wxPageSetupDialogData()
Pt = {x::integer(), y::integer()}
```

See [external documentation](#).

setMinMarginTopLeft(This, Pt) -> ok

Types:

```
This = wxPageSetupDialogData()
Pt = {x::integer(), y::integer()}
```

See [external documentation](#).

setMinMarginBottomRight(This, Pt) -> ok

Types:

```
This = wxPageSetupDialogData()
Pt = {x::integer(), y::integer()}
```

See [external documentation](#).

setPaperId(This, Id) -> ok

Types:

```
This = wxPageSetupDialogData()
Id = wx:wx_enum()
```

See [external documentation](#).

Id = ?wxPAPER_NONE | ?wxPAPER_LETTER | ?wxPAPER_LEGAL | ?wxPAPER_A4 | ?wxPAPER_CSHEET
| ?wxPAPER_DSHEET | ?wxPAPER_ESHEET | ?wxPAPER_LETTERSHEET | ?wxPAPER_TABLOID
| ?wxPAPER_LEDGER | ?wxPAPER_STATEMENT | ?wxPAPER_EXECUTIVE | ?wxPAPER_A3 | ?
wxPAPER_A4SMALL | ?wxPAPER_A5 | ?wxPAPER_B4 | ?wxPAPER_B5 | ?wxPAPER_FOLIO | ?
wxPAPER_QUARTO | ?wxPAPER_10X14 | ?wxPAPER_11X17 | ?wxPAPER_NOTE | ?wxPAPER_ENV_9 | ?
wxPAPER_ENV_10 | ?wxPAPER_ENV_11 | ?wxPAPER_ENV_12 | ?wxPAPER_ENV_14 | ?wxPAPER_ENV_DL
| ?wxPAPER_ENV_C5 | ?wxPAPER_ENV_C3 | ?wxPAPER_ENV_C4 | ?wxPAPER_ENV_C6
| ?wxPAPER_ENV_C65 | ?wxPAPER_ENV_B4 | ?wxPAPER_ENV_B5 | ?wxPAPER_ENV_B6
| ?wxPAPER_ENV_ITALY | ?wxPAPER_ENV_MONARCH | ?wxPAPER_ENV_PERSONAL | ?
wxPAPER_FANFOLD_US | ?wxPAPER_FANFOLD_STD_GERMAN | ?wxPAPER_FANFOLD_LGL_GERMAN
| ?wxPAPER_ISO_B4 | ?wxPAPER_JAPANESE_POSTCARD | ?wxPAPER_9X11 | ?wxPAPER_10X11 | ?
wxPAPER_15X11 | ?wxPAPER_ENV_INVITE | ?wxPAPER LETTER_EXTRA | ?wxPAPER_LEGAL_EXTRA
| ?wxPAPER_TABLOID_EXTRA | ?wxPAPER_A4_EXTRA | ?wxPAPER LETTER_TRANSVERSE | ?
wxPAPER_A4_TRANSVERSE | ?wxPAPER LETTER_EXTRA_TRANSVERSE | ?wxPAPER_A_PLUS | ?
wxPAPER_B_PLUS | ?wxPAPER LETTER_PLUS | ?wxPAPER_A4_PLUS | ?wxPAPER_A5_TRANSVERSE | ?
wxPAPER_B5_TRANSVERSE | ?wxPAPER_A3_EXTRA | ?wxPAPER_A5_EXTRA | ?wxPAPER_B5_EXTRA
| ?wxPAPER_A2 | ?wxPAPER_A3_TRANSVERSE | ?wxPAPER_A3_EXTRA_TRANSVERSE | ?
wxPAPER_DBLE_JAPANESE_POSTCARD | ?wxPAPER_A6 | ?wxPAPER_JENV_KAKU2 | ?
wxPAPER_JENV_KAKU3 | ?wxPAPER_JENV_CHOU3 | ?wxPAPER_JENV_CHOU4 | ?
wxPAPER LETTER_ROTATED | ?wxPAPER_A3_ROTATED | ?wxPAPER_A4_ROTATED | ?
wxPAPER_A5_ROTATED | ?wxPAPER_B4_JIS_ROTATED | ?wxPAPER_B5_JIS_ROTATED | ?
wxPAPER_JAPANESE_POSTCARD_ROTATED | ?wxPAPER_DBLE_JAPANESE_POSTCARD_ROTATED | ?
wxPAPER_A6_ROTATED | ?wxPAPER_JENV_KAKU2_ROTATED | ?wxPAPER_JENV_KAKU3_ROTATED
| ?wxPAPER_JENV_CHOU3_ROTATED | ?wxPAPER_JENV_CHOU4_ROTATED | ?wxPAPER_B6_JIS

```
| ?wxPAPER_B6_JIS_ROTATED | ?wxPAPER_12X11 | ?wxPAPER_JENV_YOU4 | ?
wxPAPER_JENV_YOU4_ROTATED | ?wxPAPER_P16K | ?wxPAPER_P32K | ?wxPAPER_P32KBIG
| ?wxPAPER_PENV_1 | ?wxPAPER_PENV_2 | ?wxPAPER_PENV_3 | ?wxPAPER_PENV_4 | ?
wxPAPER_PENV_5 | ?wxPAPER_PENV_6 | ?wxPAPER_PENV_7 | ?wxPAPER_PENV_8 | ?
wxPAPER_PENV_9 | ?wxPAPER_PENV_10 | ?wxPAPER_P16K_ROTATED | ?wxPAPER_P32K_ROTATED
| ?wxPAPER_P32KBIG_ROTATED | ?wxPAPER_PENV_1_ROTATED | ?wxPAPER_PENV_2_ROTATED | ?
wxPAPER_PENV_3_ROTATED | ?wxPAPER_PENV_4_ROTATED | ?wxPAPER_PENV_5_ROTATED | ?
wxPAPER_PENV_6_ROTATED | ?wxPAPER_PENV_7_ROTATED | ?wxPAPER_PENV_8_ROTATED | ?
wxPAPER_PENV_9_ROTATED | ?wxPAPER_PENV_10_ROTATED
```

`setPaperSize(This, Id) -> ok`

Types:

```
This = wxPageSetupDialogData()
Id = wx:wx_enum()
```

See [external documentation](#).

Also:

`setPaperSize(This, Sz) -> 'ok' when`

`This::wxPageSetupDialogData(), Sz::{W::integer(), H::integer()}.}`

```
Id = ?wxPAPER_NONE | ?wxPAPER_LETTER | ?wxPAPER_LEGAL | ?wxPAPER_A4 | ?wxPAPER_CSHEET
| ?wxPAPER_DSHEET | ?wxPAPER_ESHEET | ?wxPAPER_LETTERSHEET | ?wxPAPER_TABLOID
| ?wxPAPER_LEDGER | ?wxPAPER_STATEMENT | ?wxPAPER_EXECUTIVE | ?wxPAPER_A3 | ?
wxPAPER_A4SMALL | ?wxPAPER_A5 | ?wxPAPER_B4 | ?wxPAPER_B5 | ?wxPAPER_FOLIO | ?
wxPAPER_QUARTO | ?wxPAPER_10X14 | ?wxPAPER_11X17 | ?wxPAPER_NOTE | ?wxPAPER_ENV_9 | ?
wxPAPER_ENV_10 | ?wxPAPER_ENV_11 | ?wxPAPER_ENV_12 | ?wxPAPER_ENV_14 | ?wxPAPER_ENV_DL
| ?wxPAPER_ENV_C5 | ?wxPAPER_ENV_C3 | ?wxPAPER_ENV_C4 | ?wxPAPER_ENV_C6
| ?wxPAPER_ENV_C65 | ?wxPAPER_ENV_B4 | ?wxPAPER_ENV_B5 | ?wxPAPER_ENV_B6
| ?wxPAPER_ENV_ITALY | ?wxPAPER_ENV_MONARCH | ?wxPAPER_ENV_PERSONAL | ?
wxPAPER_FANFOLD_US | ?wxPAPER_FANFOLD_STD_GERMAN | ?wxPAPER_FANFOLD_LGL_GERMAN
| ?wxPAPER_ISO_B4 | ?wxPAPER_JAPANESE_POSTCARD | ?wxPAPER_9X11 | ?wxPAPER_10X11 | ?
wxPAPER_15X11 | ?wxPAPER_ENV_INVITE | ?wxPAPER LETTER_EXTRA | ?wxPAPER_LEGAL_EXTRA
| ?wxPAPER_TABLOID_EXTRA | ?wxPAPER_A4_EXTRA | ?wxPAPER LETTER_TRANSVERSE | ?
wxPAPER_A4_TRANSVERSE | ?wxPAPER LETTER_EXTRA_TRANSVERSE | ?wxPAPER_A_PLUS | ?
wxPAPER_B_PLUS | ?wxPAPER LETTER_PLUS | ?wxPAPER_A4_PLUS | ?wxPAPER_A5_TRANSVERSE | ?
wxPAPER_B5_TRANSVERSE | ?wxPAPER_A3_EXTRA | ?wxPAPER_A5_EXTRA | ?wxPAPER_B5_EXTRA
| ?wxPAPER_A2 | ?wxPAPER_A3_TRANSVERSE | ?wxPAPER_A3_EXTRA_TRANSVERSE | ?
wxPAPER_DBLE_JAPANESE_POSTCARD | ?wxPAPER_A6 | ?wxPAPER_JENV_KAKU2 | ?
wxPAPER_JENV_KAKU3 | ?wxPAPER_JENV_CHOU3 | ?wxPAPER_JENV_CHOU4 | ?
wxPAPER LETTER_ROTATED | ?wxPAPER_A3_ROTATED | ?wxPAPER_A4_ROTATED | ?
wxPAPER_A5_ROTATED | ?wxPAPER_B4_JIS_ROTATED | ?wxPAPER_B5_JIS_ROTATED | ?
wxPAPER_JAPANESE_POSTCARD_ROTATED | ?wxPAPER_DBLE_JAPANESE_POSTCARD_ROTATED | ?
wxPAPER_A6_ROTATED | ?wxPAPER_JENV_KAKU2_ROTATED | ?wxPAPER_JENV_KAKU3_ROTATED
| ?wxPAPER_JENV_CHOU3_ROTATED | ?wxPAPER_JENV_CHOU4_ROTATED | ?wxPAPER_B6_JIS
| ?wxPAPER_B6_JIS_ROTATED | ?wxPAPER_12X11 | ?wxPAPER_JENV_YOU4 | ?
wxPAPER_JENV_YOU4_ROTATED | ?wxPAPER_P16K | ?wxPAPER_P32K | ?wxPAPER_P32KBIG
| ?wxPAPER_PENV_1 | ?wxPAPER_PENV_2 | ?wxPAPER_PENV_3 | ?wxPAPER_PENV_4 | ?
wxPAPER_PENV_5 | ?wxPAPER_PENV_6 | ?wxPAPER_PENV_7 | ?wxPAPER_PENV_8 | ?
wxPAPER_PENV_9 | ?wxPAPER_PENV_10 | ?wxPAPER_P16K_ROTATED | ?wxPAPER_P32K_ROTATED
| ?wxPAPER_P32KBIG_ROTATED | ?wxPAPER_PENV_1_ROTATED | ?wxPAPER_PENV_2_ROTATED | ?
wxPAPER_PENV_3_ROTATED | ?wxPAPER_PENV_4_ROTATED | ?wxPAPER_PENV_5_ROTATED | ?
```

wxPageSetupDialogData

wxPAPER_PENV_6_ROTATED | ?wxPAPER_PENV_7_ROTATED | ?wxPAPER_PENV_8_ROTATED | ?wxPAPER_PENV_9_ROTATED | ?wxPAPER_PENV_10_ROTATED

setPrintData(This, PrintData) -> ok

Types:

```
This = wxPageSetupDialogData()
PrintData = wxPrintData:wxPrintData()
```

See [external documentation](#).

destroy(This::wxPageSetupDialogData()) -> ok

Destroys this object, do not use object again

wxPaintDC

Erlang module

See external documentation: **wxPaintDC**.

This class is derived (and can use functions) from:

wxWindowDC

wxDC

DATA TYPES

`wxPaintDC()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxPaintDC()`

This function is deprecated: deprecated function not available in wxWidgets-2.9 and later

See [external documentation](#).

`new(Win) -> wxPaintDC()`

Types:

`Win = wxWindow:wxWindow()`

See [external documentation](#).

`destroy(This::wxPaintDC()) -> ok`

Destroys this object, do not use object again

wxPaintEvent

Erlang module

See external documentation: **wxPaintEvent**.

Use *wxEvtHandler:connect/3* with EventType:

paint

See also the message variant `#wxPaint{}` event record type.

This class is derived (and can use functions) from:

wxEvent

DATA TYPES

`wxPaintEvent()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

wxPalette

Erlang module

See external documentation: **wxPalette**.

DATA TYPES

`wxPalette()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxPalette()`

See **external documentation**.

`new(Red, Green, Blue) -> wxPalette()`

Types:

```
Red = binary()  
Green = binary()  
Blue = binary()
```

See **external documentation**.

`create(This, Red, Green, Blue) -> boolean()`

Types:

```
This = wxPalette()  
Red = binary()  
Green = binary()  
Blue = binary()
```

See **external documentation**.

`getColoursCount(This) -> integer()`

Types:

```
This = wxPalette()
```

See **external documentation**.

`getPixel(This, Red, Green, Blue) -> integer()`

Types:

```
This = wxPalette()  
Red = integer()  
Green = integer()  
Blue = integer()
```

See **external documentation**.

wxPalette

`getRGB(This, Pixel) -> Result`

Types:

```
Result = {Res:::boolean(), Red:::integer(), Green:::integer(),
          Blue:::integer()}
This = wxPalette()
Pixel = integer()
```

See [external documentation](#).

`isOk(This) -> boolean()`

Types:

```
This = wxPalette()
```

See [external documentation](#).

`destroy(This::wxPalette()) -> ok`

Destroys this object, do not use object again

wxPaletteChangedEvent

Erlang module

See external documentation: **wxPaletteChangedEvent**.

Use *wxEvtHandler:connect/3* with EventType:

palette_changed

See also the message variant `#wxPaletteChanged{}` event record type.

This class is derived (and can use functions) from:

wxEvent

DATA TYPES

`wxPaletteChangedEvent()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`setChangedWindow(This, Win) -> ok`

Types:

```
This = wxPaletteChangedEvent()
Win = wxWindow:wxWindow()
```

See external documentation.

`getChangedWindow(This) -> wxWindow:wxWindow()`

Types:

```
This = wxPaletteChangedEvent()
```

See external documentation.

wxPanel

Erlang module

See external documentation: **wxPanel**.

This class is derived (and can use functions) from:

wxWindow

wxEvtHandler

DATA TYPES

`wxPanel()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxPanel()`

See **external documentation**.

`new(Parent) -> wxPanel()`

Types:

`Parent = wxWindow:wxWindow()`

Equivalent to `new(Parent, [])`.

`new(Parent, Options:[Option]) -> wxPanel()`

Types:

`Parent = wxWindow:wxWindow()`

`Option = {winid, integer()} | {pos, {X::integer(), Y::integer()}} | {size, {W::integer(), H::integer()}} | {style, integer()}`

See **external documentation**.

`new(Parent, X, Y, Width, Height) -> wxPanel()`

Types:

`Parent = wxWindow:wxWindow()`

`X = integer()`

`Y = integer()`

`Width = integer()`

`Height = integer()`

Equivalent to `new(Parent, X, Y, Width, Height, [])`.

`new(Parent, X, Y, Width, Height, Options:[Option]) -> wxPanel()`

Types:

`Parent = wxWindow:wxWindow()`

```
X = integer()
Y = integer()
Width = integer()
Height = integer()
Option = {style, integer()}
```

See [external documentation](#).

initDialog(This) -> ok

Types:

```
This = wxPanel()
```

See [external documentation](#).

setFocusIgnoringChildren(This) -> ok

Types:

```
This = wxPanel()
```

See [external documentation](#).

destroy(This::wxPanel()) -> ok

Destroys this object, do not use object again

wxPasswordEntryDialog

Erlang module

See external documentation: [wxPasswordEntryDialog](#).

This class is derived (and can use functions) from:

wxTextEntryDialog

wxDialo

wxTopLevelWindow

wxWindow

wxEvtHandler

DATA TYPES

`wxPasswordEntryDialog()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new(Parent, Message) -> wxPasswordEntryDialog()`

Types:

```
Parent = wxWindow:wxWindow()
Message = unicode:chardata()
```

Equivalent to `new(Parent, Message, [])`.

`new(Parent, Message, Options::[Option]) -> wxPasswordEntryDialog()`

Types:

```
Parent = wxWindow:wxWindow()
Message = unicode:chardata()
Option = {caption, unicode:chardata()} | {value, unicode:chardata()} |
{style, integer()} | {pos, {X::integer(), Y::integer()}}
```

See [external documentation](#).

`destroy(This::wxPasswordEntryDialog()) -> ok`

Destroys this object, do not use object again

wxPen

Erlang module

See external documentation: **wxPen**.

DATA TYPES

`wxPen()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxPen()`

See **external documentation**.

`new(Colour) -> wxPen()`

Types:

`Colour = wx:wx_colour()`

Equivalent to `new(Colour, [])`.

`new(Colour, Options::[Option]) -> wxPen()`

Types:

`Colour = wx:wx_colour()`

`Option = {width, integer()} | {style, integer()}`

See **external documentation**.

`getCap(This) -> integer()`

Types:

`This = wxPen()`

See **external documentation**.

`getColour(This) -> wx:wx_colour4()`

Types:

`This = wxPen()`

See **external documentation**.

`getJoin(This) -> integer()`

Types:

`This = wxPen()`

See **external documentation**.

wxPen

`getStyle(This) -> integer()`

Types:

`This = wxPen()`

See [external documentation](#).

`getWidth(This) -> integer()`

Types:

`This = wxPen()`

See [external documentation](#).

`isOk(This) -> boolean()`

Types:

`This = wxPen()`

See [external documentation](#).

`setCap(This, CapStyle) -> ok`

Types:

`This = wxPen()`

`CapStyle = wx:wx_enum()`

See [external documentation](#).

`CapStyle = integer`

`setColour(This, Colour) -> ok`

Types:

`This = wxPen()`

`Colour = wx:wx_colour()`

See [external documentation](#).

`setColour(This, Red, Green, Blue) -> ok`

Types:

`This = wxPen()`

`Red = integer()`

`Green = integer()`

`Blue = integer()`

See [external documentation](#).

`setJoin(This, JoinStyle) -> ok`

Types:

`This = wxPen()`

`JoinStyle = wx:wx_enum()`

See [external documentation](#).

`JoinStyle = integer`

`setStyle(This, Style) -> ok`

Types:

`This = wxPen()`

`Style = integer()`

See [external documentation](#).

`setWidth(This, Width) -> ok`

Types:

`This = wxPen()`

`Width = integer()`

See [external documentation](#).

`destroy(This::wxPen()) -> ok`

Destroys this object, do not use object again

wxPickerBase

Erlang module

See external documentation: **wxPickerBase**.

This class is derived (and can use functions) from:

wxControl

wxWindow

wxEvtHandler

DATA TYPES

wxPickerBase()

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

setInternalMargin(This, Newmargin) -> ok

Types:

```
This = wxPickerBase()
Newmargin = integer()
```

See **external documentation**.

getInternalMargin(This) -> integer()

Types:

```
This = wxPickerBase()
```

See **external documentation**.

setTextCtrlProportion(This, Prop) -> ok

Types:

```
This = wxPickerBase()
Prop = integer()
```

See **external documentation**.

setPickerCtrlProportion(This, Prop) -> ok

Types:

```
This = wxPickerBase()
Prop = integer()
```

See **external documentation**.

getTextCtrlProportion(This) -> integer()

Types:

```
This = wxPickerBase()
```

See [external documentation](#).

getPickerCtrlProportion(This) -> integer()

Types:

This = wxPickerBase()

See [external documentation](#).

hasTextCtrl(This) -> boolean()

Types:

This = wxPickerBase()

See [external documentation](#).

getTextCtrl(This) -> wxTextCtrl:wxTextCtrl()

Types:

This = wxPickerBase()

See [external documentation](#).

isTextCtrlGrowable(This) -> boolean()

Types:

This = wxPickerBase()

See [external documentation](#).

setPickerCtrlGrowable(This) -> ok

Types:

This = wxPickerBase()

Equivalent to *setPickerCtrlGrowable(This, [])*.

setPickerCtrlGrowable(This, Options::[Option]) -> ok

Types:

This = wxPickerBase()

Option = {grow, boolean()}

See [external documentation](#).

setTextCtrlGrowable(This) -> ok

Types:

This = wxPickerBase()

Equivalent to *setTextCtrlGrowable(This, [])*.

setTextCtrlGrowable(This, Options::[Option]) -> ok

Types:

This = wxPickerBase()

Option = {grow, boolean()}

See [external documentation](#).

wxPickerBase

isPickerCtrlGrowable(This) -> boolean()

Types:

This = wxPickerBase()

See [external documentation](#).

wxPopupTransientWindow

Erlang module

See external documentation: **wxPopupTransientWindow**.

This class is derived (and can use functions) from:

wxPopupWindow

wxWindow

wxEvtHandler

DATA TYPES

`wxPopupTransientWindow()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxPopupTransientWindow()`

See **external documentation**.

`new(Parent) -> wxPopupTransientWindow()`

Types:

`Parent = wxWindow:wxWindow()`

Equivalent to `new(Parent, [])`.

`new(Parent, Options:[Option]) -> wxPopupTransientWindow()`

Types:

`Parent = wxWindow:wxWindow()`

`Option = {style, integer()}`

See **external documentation**.

`popup(This) -> ok`

Types:

`This = wxPopupTransientWindow()`

Equivalent to `popup(This, [])`.

`popup(This, Options:[Option]) -> ok`

Types:

`This = wxPopupTransientWindow()`

`Option = {focus, wxWindow:wxWindow()}`

See **external documentation**.

wxPopupTransientWindow

dismiss(This) -> ok

Types:

This = wxPopupTransientWindow()

See [external documentation](#).

destroy(This::wxPopupTransientWindow()) -> ok

Destroys this object, do not use object again

wxPopupWindow

Erlang module

See external documentation: **wxPopupWindow**.

This class is derived (and can use functions) from:

wxWindow

wxEvtHandler

DATA TYPES

wxPopupWindow()

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

new() -> wxPopupWindow()

See **external documentation**.

new(Parent) -> wxPopupWindow()

Types:

Parent = wxWindow:wxWindow()

Equivalent to *new(Parent, [])*.

new(Parent, Options::[Option]) -> wxPopupWindow()

Types:

Parent = wxWindow:wxWindow()

Option = {flags, integer()}

See **external documentation**.

create(This, Parent) -> boolean()

Types:

This = wxPopupWindow()

Parent = wxWindow:wxWindow()

Equivalent to *create(This, Parent, [])*.

create(This, Parent, Options::[Option]) -> boolean()

Types:

This = wxPopupWindow()

Parent = wxWindow:wxWindow()

Option = {flags, integer()}

See **external documentation**.

wxPopupWindow

position(This, PtOrigin, Size) -> ok

Types:

```
This = wxPopupWindow()
PtOrigin = {X::integer(), Y::integer()}
Size = {W::integer(), H::integer()}
```

See [external documentation](#).

destroy(This::wxPopupWindow()) -> ok

Destroys this object, do not use object again

wxPostScriptDC

Erlang module

See external documentation: **wxPostScriptDC**.

This class is derived (and can use functions) from:
wxDC

DATA TYPES

wxPostScriptDC()

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

new() -> wxPostScriptDC()

See external documentation.

new(PrintData) -> wxPostScriptDC()

Types:

PrintData = wxPrintData:wxPrintData()

See external documentation.

setResolution(Ppi) -> ok

Types:

Ppi = integer()

This function is deprecated: deprecated function not available in wxWidgets-2.9 and later

See external documentation.

getResolution() -> integer()

This function is deprecated: deprecated function not available in wxWidgets-2.9 and later

See external documentation.

destroy(This::wxPostScriptDC()) -> ok

Destroys this object, do not use object again

wxPreviewCanvas

Erlang module

See external documentation: [wxPreviewCanvas](#).

This class is derived (and can use functions) from:

wxScrolledWindow

wxPanel

wxWindow

wxEvtHandler

DATA TYPES

`wxPreviewCanvas()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

wxPreviewControlBar

Erlang module

See external documentation: **wxPreviewControlBar**.

This class is derived (and can use functions) from:

wxPanel
wxWindow
wxEvtHandler

DATA TYPES

`wxPreviewControlBar()`

An object reference. The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new(Preview, Buttons, Parent) -> wxPreviewControlBar()`

Types:

```
Preview = wxPrintPreview:wxPrintPreview()
Buttons = integer()
Parent = wxWindow:wxWindow()
```

Equivalent to `new(Preview, Buttons, Parent, [])`.

`new(Preview, Buttons, Parent, Options:[Option]) -> wxPreviewControlBar()`

Types:

```
Preview = wxPrintPreview:wxPrintPreview()
Buttons = integer()
Parent = wxWindow:wxWindow()
Option = {pos, {X::integer(), Y::integer()}} | {size, {W::integer(), H::integer()}} | {style, integer()}
```

See external documentation.

`createButtons(This) -> ok`

Types:

```
This = wxPreviewControlBar()
```

See external documentation.

`getPrintPreview(This) -> wxPrintPreview:wxPrintPreview()`

Types:

```
This = wxPreviewControlBar()
```

See external documentation.

wxPreviewControlBar

getZoomControl(This) -> integer()

Types:

This = wxPreviewControlBar()

See [external documentation](#).

setZoomControl(This, Zoom) -> ok

Types:

This = wxPreviewControlBar()

Zoom = integer()

See [external documentation](#).

destroy(This::wxPreviewControlBar()) -> ok

Destroys this object, do not use object again

wxPreviewFrame

Erlang module

See external documentation: **wxPreviewFrame**.

This class is derived (and can use functions) from:

wxFrame
wxTopLevelWindow
wxWindow
wxEvtHandler

DATA TYPES

`wxPreviewFrame()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new(Preview, Parent) -> wxPreviewFrame()`

Types:

```
Preview = wxPrintPreview:wxPrintPreview()
Parent = wxWindow:wxWindow()
```

Equivalent to `new(Preview, Parent, [])`.

`new(Preview, Parent, Options::[Option]) -> wxPreviewFrame()`

Types:

```
Preview = wxPrintPreview:wxPrintPreview()
Parent = wxWindow:wxWindow()
Option = {title, unicode:chardata()} | {pos, {X::integer(), Y::integer()}}
| {size, {W::integer(), H::integer()}} | {style, integer()}
```

See **external documentation**.

`createControlBar(This) -> ok`

Types:

```
This = wxPreviewFrame()
```

See **external documentation**.

`createCanvas(This) -> ok`

Types:

```
This = wxPreviewFrame()
```

See **external documentation**.

wxPreviewFrame

initialize(This) -> ok

Types:

This = wxPreviewFrame()

See [external documentation](#).

onCloseWindow(This, Event) -> ok

Types:

This = wxPreviewFrame()

Event = wxCloseEvent:wxCloseEvent()

See [external documentation](#).

destroy(This::wxPreviewFrame()) -> ok

Destroys this object, do not use object again

wxPrintData

Erlang module

See external documentation: **wxPrintData**.

DATA TYPES

`wxPrintData()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxPrintData()`

See **external documentation**.

`new(PrintData) -> wxPrintData()`

Types:

`PrintData = wxPrintData()`

See **external documentation**.

`getCollate(This) -> boolean()`

Types:

`This = wxPrintData()`

See **external documentation**.

`getBin(This) -> wx:wx_enum()`

Types:

`This = wxPrintData()`

See **external documentation**.

Res = ?wxPRINTBIN_DEFAULT | ?wxPRINTBIN_ONLYONE | ?wxPRINTBIN_LOWER
| ?wxPRINTBIN_MIDDLE | ?wxPRINTBIN_MANUAL | ?wxPRINTBIN_ENVELOPE | ?
wxPRINTBIN_ENVMANUAL | ?wxPRINTBIN_AUTO | ?wxPRINTBIN_TRACTOR | ?
wxPRINTBIN_SMALLFMT | ?wxPRINTBIN_LARGEFORMAT | ?wxPRINTBIN_LARGECAPACITY | ?
wxPRINTBIN_CASSETTE | ?wxPRINTBIN_FORMSOURCE | ?wxPRINTBIN_USER

`getColour(This) -> boolean()`

Types:

`This = wxPrintData()`

See **external documentation**.

`getDuplex(This) -> wx:wx_enum()`

Types:

`This = wxPrintData()`

wxPrintData

See [external documentation](#).

Res = ?wxDUPLEX_SIMPLEX | ?wxDUPLEX_HORIZONTAL | ?wxDUPLEX_VERTICAL

getNoCopies(This) -> integer()

Types:

This = wxPrintData()

See [external documentation](#).

getOrientation(This) -> integer()

Types:

This = wxPrintData()

See [external documentation](#).

getPaperId(This) -> wx:wx_enum()

Types:

This = wxPrintData()

See [external documentation](#).

Res = ?wxPAPER_NONE | ?wxPAPER_LETTER | ?wxPAPER_LEGAL | ?wxPAPER_A4 | ?wxPAPER_CSHEET | ?wxPAPER_DSHEET | ?wxPAPER_ESHEET | ?wxPAPER_LETTERSMLL | ?wxPAPER_TABLOID | ?wxPAPER_LEDGER | ?wxPAPER_STATEMENT | ?wxPAPER_EXECUTIVE | ?wxPAPER_A3 | ?wxPAPER_A4SMALL | ?wxPAPER_A5 | ?wxPAPER_B4 | ?wxPAPER_B5 | ?wxPAPER_FOLIO | ?wxPAPER_QUARTO | ?wxPAPER_10X14 | ?wxPAPER_11X17 | ?wxPAPER_NOTE | ?wxPAPER_ENV_9 | ?wxPAPER_ENV_10 | ?wxPAPER_ENV_11 | ?wxPAPER_ENV_12 | ?wxPAPER_ENV_14 | ?wxPAPER_ENV_DL | ?wxPAPER_ENV_C5 | ?wxPAPER_ENV_C3 | ?wxPAPER_ENV_C4 | ?wxPAPER_ENV_C6 | ?wxPAPER_ENV_C65 | ?wxPAPER_ENV_B4 | ?wxPAPER_ENV_B5 | ?wxPAPER_ENV_B6 | ?wxPAPER_ENV_ITALY | ?wxPAPER_ENV_MONARCH | ?wxPAPER_ENV_PERSONAL | ?wxPAPER_FANFOLD_US | ?wxPAPER_FANFOLD_STD_GERMAN | ?wxPAPER_FANFOLD_LGL_GERMAN | ?wxPAPER_ISO_B4 | ?wxPAPER_JAPANESE_POSTCARD | ?wxPAPER_9X11 | ?wxPAPER_10X11 | ?wxPAPER_15X11 | ?wxPAPER_ENV_INVITE | ?wxPAPER LETTER_EXTRA | ?wxPAPER_LEGAL_EXTRA | ?wxPAPER_TABLOID_EXTRA | ?wxPAPER_A4_EXTRA | ?wxPAPER LETTER_TRANSVERSE | ?wxPAPER_A4_TRANSVERSE | ?wxPAPER LETTER_EXTRA_TRANSVERSE | ?wxPAPER_A_PLUS | ?wxPAPER_B_PLUS | ?wxPAPER LETTER_PLUS | ?wxPAPER_A4_PLUS | ?wxPAPER_A5_TRANSVERSE | ?wxPAPER_B5_TRANSVERSE | ?wxPAPER_A3_EXTRA | ?wxPAPER_A5_EXTRA | ?wxPAPER_B5_EXTRA | ?wxPAPER_A2 | ?wxPAPER_A3_TRANSVERSE | ?wxPAPER_A3_EXTRA_TRANSVERSE | ?wxPAPER_DBL_JAPANESE_POSTCARD | ?wxPAPER_A6 | ?wxPAPER_JENV_KAKU2 | ?wxPAPER_JENV_KAKU3 | ?wxPAPER_JENV_CHOU3 | ?wxPAPER_JENV_CHOU4 | ?wxPAPER LETTER_ROTATED | ?wxPAPER_A3_ROTATED | ?wxPAPER_A4_ROTATED | ?wxPAPER_A5_ROTATED | ?wxPAPER_B4_JIS_ROTATED | ?wxPAPER_B5_JIS_ROTATED | ?wxPAPER_JAPANESE_POSTCARD_ROTATED | ?wxPAPER_DBL_JAPANESE_POSTCARD_ROTATED | ?wxPAPER_A6_ROTATED | ?wxPAPER_JENV_KAKU2_ROTATED | ?wxPAPER_JENV_KAKU3_ROTATED | ?wxPAPER_JENV_CHOU3_ROTATED | ?wxPAPER_JENV_CHOU4_ROTATED | ?wxPAPER_B6_JIS | ?wxPAPER_B6_JIS_ROTATED | ?wxPAPER_12X11 | ?wxPAPER_JENV_YOU4 | ?wxPAPER_JENV_YOU4_ROTATED | ?wxPAPER_P16K | ?wxPAPER_P32K | ?wxPAPER_P32KBIG | ?wxPAPER_PENV_1 | ?wxPAPER_PENV_2 | ?wxPAPER_PENV_3 | ?wxPAPER_PENV_4 | ?wxPAPER_PENV_5 | ?wxPAPER_PENV_6 | ?wxPAPER_PENV_7 | ?wxPAPER_PENV_8 | ?wxPAPER_PENV_9 | ?wxPAPER_PENV_10 | ?wxPAPER_P16K_ROTATED | ?wxPAPER_P32K_ROTATED | ?wxPAPER_P32KBIG_ROTATED | ?wxPAPER_PENV_1_ROTATED | ?wxPAPER_PENV_2_ROTATED | ?wxPAPER_PENV_3_ROTATED | ?wxPAPER_PENV_4_ROTATED | ?wxPAPER_PENV_5_ROTATED | ?

wxPAPER_PENV_6_ROTATED | ?wxPAPER_PENV_7_ROTATED | ?wxPAPER_PENV_8_ROTATED | ?
wxPAPER_PENV_9_ROTATED | ?wxPAPER_PENV_10_ROTATED

getPrinterName(This) -> unicode:charlist()

Types:

This = wxPrintData()

See **external documentation**.

getQuality(This) -> integer()

Types:

This = wxPrintData()

See **external documentation**.

isOk(This) -> boolean()

Types:

This = wxPrintData()

See **external documentation**.

setBin(This, Bin) -> ok

Types:

This = wxPrintData()

Bin = wx:wx_enum()

See **external documentation**.

Bin = ?wxPRINTBIN_DEFAULT | ?wxPRINTBIN_ONLYONE | ?wxPRINTBIN_LOWER
| ?wxPRINTBIN_MIDDLE | ?wxPRINTBIN_MANUAL | ?wxPRINTBIN_ENVELOPE | ?
wxPRINTBIN_ENVMANUAL | ?wxPRINTBIN_AUTO | ?wxPRINTBIN_TRACTOR | ?
wxPRINTBIN_SMALLFMT | ?wxPRINTBIN_LARGEFORMAT | ?wxPRINTBIN_LARGECAPACITY | ?
wxPRINTBIN_CASSETTE | ?wxPRINTBIN_FORMSOURCE | ?wxPRINTBIN_USER

setCollate(This, Flag) -> ok

Types:

This = wxPrintData()

Flag = boolean()

See **external documentation**.

setColour(This, Colour) -> ok

Types:

This = wxPrintData()

Colour = boolean()

See **external documentation**.

setDuplex(This, Duplex) -> ok

Types:

This = wxPrintData()

wxPrintData

```
Duplex = wx:wx_enum( )
```

See [external documentation](#).

Duplex = ?wxDUPLEX_SIMPLEX | ?wxDUPLEX_HORIZONTAL | ?wxDUPLEX_VERTICAL

```
setNoCopies(This, V) -> ok
```

Types:

```
This = wxPrintData()
V = integer()
```

See [external documentation](#).

```
setOrientation(This, Orient) -> ok
```

Types:

```
This = wxPrintData()
Orient = integer()
```

See [external documentation](#).

```
setPaperId(This, SizeId) -> ok
```

Types:

```
This = wxPrintData()
SizeId = wx:wx_enum( )
```

See [external documentation](#).

SizeId = ?wxPAPER_NONE | ?wxPAPER_LETTER | ?wxPAPER_LEGAL | ?wxPAPER_A4 | ?wxPAPER_CSHEET
| ?wxPAPER_DSHEET | ?wxPAPER_ESHEET | ?wxPAPER_LETTERSHEET | ?wxPAPER_TABLOID
| ?wxPAPER_LEDGER | ?wxPAPER_STATEMENT | ?wxPAPER_EXECUTIVE | ?wxPAPER_A3 | ?
wxPAPER_A4SMALL | ?wxPAPER_A5 | ?wxPAPER_B4 | ?wxPAPER_B5 | ?wxPAPER_FOLIO | ?
wxPAPER_QUARTO | ?wxPAPER_10X14 | ?wxPAPER_11X17 | ?wxPAPER_NOTE | ?wxPAPER_ENV_9 | ?
wxPAPER_ENV_10 | ?wxPAPER_ENV_11 | ?wxPAPER_ENV_12 | ?wxPAPER_ENV_14 | ?wxPAPER_ENV_DL
| ?wxPAPER_ENV_C5 | ?wxPAPER_ENV_C3 | ?wxPAPER_ENV_C4 | ?wxPAPER_ENV_C6
| ?wxPAPER_ENV_C65 | ?wxPAPER_ENV_B4 | ?wxPAPER_ENV_B5 | ?wxPAPER_ENV_B6
| ?wxPAPER_ENV_ITALY | ?wxPAPER_ENV_MONARCH | ?wxPAPER_ENV_PERSONAL | ?
wxPAPER_FANFOLD_US | ?wxPAPER_FANFOLD_STD_GERMAN | ?wxPAPER_FANFOLD_LGL_GERMAN
| ?wxPAPER_ISO_B4 | ?wxPAPER_JAPANESE_POSTCARD | ?wxPAPER_9X11 | ?wxPAPER_10X11 | ?
wxPAPER_15X11 | ?wxPAPER_ENV_INVITE | ?wxPAPER LETTER_EXTRA | ?wxPAPER_LEGAL_EXTRA
| ?wxPAPER_TABLOID_EXTRA | ?wxPAPER_A4_EXTRA | ?wxPAPER LETTER_TRANSVERSE | ?
wxPAPER_A4_TRANSVERSE | ?wxPAPER LETTER_EXTRA_TRANSVERSE | ?wxPAPER_A_PLUS | ?
wxPAPER_B_PLUS | ?wxPAPER LETTER_PLUS | ?wxPAPER_A4_PLUS | ?wxPAPER_A5_TRANSVERSE | ?
wxPAPER_B5_TRANSVERSE | ?wxPAPER_A3_EXTRA | ?wxPAPER_A5_EXTRA | ?wxPAPER_B5_EXTRA
| ?wxPAPER_A2 | ?wxPAPER_A3_TRANSVERSE | ?wxPAPER_A3_EXTRA_TRANSVERSE | ?
wxPAPER_DBLE_JAPANESE_POSTCARD | ?wxPAPER_A6 | ?wxPAPER_JENV_KAKU2 | ?
wxPAPER_JENV_KAKU3 | ?wxPAPER_JENV_CHOU3 | ?wxPAPER_JENV_CHOU4 | ?
wxPAPER LETTER_ROTATED | ?wxPAPER_A3_ROTATED | ?wxPAPER_A4_ROTATED | ?
wxPAPER_A5_ROTATED | ?wxPAPER_B4_JIS_ROTATED | ?wxPAPER_B5_JIS_ROTATED | ?
wxPAPER_JAPANESE_POSTCARD_ROTATED | ?wxPAPER_DBLE_JAPANESE_POSTCARD_ROTATED | ?
wxPAPER_A6_ROTATED | ?wxPAPER_JENV_KAKU2_ROTATED | ?wxPAPER_JENV_KAKU3_ROTATED
| ?wxPAPER_JENV_CHOU3_ROTATED | ?wxPAPER_JENV_CHOU4_ROTATED | ?wxPAPER_B6_JIS
| ?wxPAPER_B6_JIS_ROTATED | ?wxPAPER_12X11 | ?wxPAPER_JENV_YOU4 | ?
wxPAPER_JENV_YOU4_ROTATED | ?wxPAPER_P16K | ?wxPAPER_P32K | ?wxPAPER_P32KBIG
| ?wxPAPER_PENV_1 | ?wxPAPER_PENV_2 | ?wxPAPER_PENV_3 | ?wxPAPER_PENV_4 | ?

```
wxPAPER_PENV_5 | ?wxPAPER_PENV_6 | ?wxPAPER_PENV_7 | ?wxPAPER_PENV_8 | ?
wxPAPER_PENV_9 | ?wxPAPER_PENV_10 | ?wxPAPER_P16K_ROTATED | ?wxPAPER_P32K_ROTATED
| ?wxPAPER_P32KBIG_ROTATED | ?wxPAPER_PENV_1_ROTATED | ?wxPAPER_PENV_2_ROTATED | ?
wxPAPER_PENV_3_ROTATED | ?wxPAPER_PENV_4_ROTATED | ?wxPAPER_PENV_5_ROTATED | ?
wxPAPER_PENV_6_ROTATED | ?wxPAPER_PENV_7_ROTATED | ?wxPAPER_PENV_8_ROTATED | ?
wxPAPER_PENV_9_ROTATED | ?wxPAPER_PENV_10_ROTATED
```

setPrinterName(This, Name) -> ok

Types:

```
This = wxPrintData()
Name = unicode:chardata()
```

See [external documentation](#).

setQuality(This, Quality) -> ok

Types:

```
This = wxPrintData()
Quality = integer()
```

See [external documentation](#).

destroy(This::wxPrintData()) -> ok

Destroys this object, do not use object again

wxPrintDialog

Erlang module

See external documentation: **wxPrintDialog**.

This class is derived (and can use functions) from:

wxDialo
wxTopLevelWindow
wxWindow
wxEvtHandler

DATA TYPES

`wxPrintDialog()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new(Parent) -> wxPrintDialog()`

Types:

`Parent = wxWindow:wxWindow()`

Equivalent to `new(Parent, [])`.

`new(Parent, Options:[Option]) -> wxPrintDialog()`

Types:

`Parent = wxWindow:wxWindow()`

`Option = {data, wxPrintDialogData:wxPrintDialogData()}`

See **external documentation**.

Also:

`new(Parent, Data) -> wxPrintDialog()` when

`Parent::wxWindow:wxWindow(), Data::wxPrintData:wxPrintData()`.

`getPrintDialogData(This) -> wxPrintDialogData:wxPrintDialogData()`

Types:

`This = wxPrintDialog()`

See **external documentation**.

`getPrintDC(This) -> wxDC:wxDC()`

Types:

`This = wxPrintDialog()`

See **external documentation**.

`destroy(This::wxPrintDialog()) -> ok`

Destroys this object, do not use object again

wxPrintDialogData

Erlang module

See external documentation: **wxPrintDialogData**.

DATA TYPES

`wxPrintDialogData()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxPrintDialogData()`

See **external documentation**.

`new(DialogData) -> wxPrintDialogData()`

Types:

`DialogData = wxPrintDialogData() | wxPrintData:wxPrintData()`

See **external documentation**.

`enableHelp(This, Flag) -> ok`

Types:

`This = wxPrintDialogData()`
`Flag = boolean()`

See **external documentation**.

`enablePageNumbers(This, Flag) -> ok`

Types:

`This = wxPrintDialogData()`
`Flag = boolean()`

See **external documentation**.

`enablePrintToFile(This, Flag) -> ok`

Types:

`This = wxPrintDialogData()`
`Flag = boolean()`

See **external documentation**.

`enableSelection(This, Flag) -> ok`

Types:

`This = wxPrintDialogData()`
`Flag = boolean()`

wxPrintDialogData

See [external documentation](#).

`getAllPages(This) -> boolean()`

Types:

`This = wxPrintDialogData()`

See [external documentation](#).

`getCollate(This) -> boolean()`

Types:

`This = wxPrintDialogData()`

See [external documentation](#).

`getFromPage(This) -> integer()`

Types:

`This = wxPrintDialogData()`

See [external documentation](#).

`getMaxPage(This) -> integer()`

Types:

`This = wxPrintDialogData()`

See [external documentation](#).

`getMinPage(This) -> integer()`

Types:

`This = wxPrintDialogData()`

See [external documentation](#).

`getNoCopies(This) -> integer()`

Types:

`This = wxPrintDialogData()`

See [external documentation](#).

`getPrintData(This) -> wxPrintData:wxPrintData()`

Types:

`This = wxPrintDialogData()`

See [external documentation](#).

`getPrintToFile(This) -> boolean()`

Types:

`This = wxPrintDialogData()`

See [external documentation](#).

getSelection(This) -> boolean()

Types:

This = *wxPrintDialogData()*

See **external documentation**.

getToPage(This) -> integer()

Types:

This = *wxPrintDialogData()*

See **external documentation**.

isOk(This) -> boolean()

Types:

This = *wxPrintDialogData()*

See **external documentation**.

setCollate(This, Flag) -> ok

Types:

This = *wxPrintDialogData()*

Flag = boolean()

See **external documentation**.

setFromPage(This, V) -> ok

Types:

This = *wxPrintDialogData()*

V = integer()

See **external documentation**.

setMaxPage(This, V) -> ok

Types:

This = *wxPrintDialogData()*

V = integer()

See **external documentation**.

setMinPage(This, V) -> ok

Types:

This = *wxPrintDialogData()*

V = integer()

See **external documentation**.

setNoCopies(This, V) -> ok

Types:

This = *wxPrintDialogData()*

V = integer()

wxPrintDialogData

See [external documentation](#).

`setPrintData(This, PrintData) -> ok`

Types:

```
This = wxPrintDialogData()  
PrintData = wxPrintData:wxPrintData()
```

See [external documentation](#).

`setPrintToFile(This, Flag) -> ok`

Types:

```
This = wxPrintDialogData()  
Flag = boolean()
```

See [external documentation](#).

`setSelection(This, Flag) -> ok`

Types:

```
This = wxPrintDialogData()  
Flag = boolean()
```

See [external documentation](#).

`setToPage(This, V) -> ok`

Types:

```
This = wxPrintDialogData()  
V = integer()
```

See [external documentation](#).

`destroy(This::wxPrintDialogData()) -> ok`

Destroys this object, do not use object again

wxPrintPreview

Erlang module

See external documentation: **wxPrintPreview**.

DATA TYPES

`wxPrintPreview()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new(Printout) -> wxPrintPreview()`

Types:

`Printout = wxPrintout:wxPrintout()`

Equivalent to `new(Printout, [])`.

`new(Printout, Options:[Option]) -> wxPrintPreview()`

Types:

`Printout = wxPrintout:wxPrintout()`

`Option = {printoutForPrinting, wxPrintout:wxPrintout()} | {data, wxPrintDialogData:wxPrintDialogData()}`

See external documentation.

`new(Printout, PrintoutForPrinting, Data) -> wxPrintPreview()`

Types:

`Printout = wxPrintout:wxPrintout()`

`PrintoutForPrinting = wxPrintout:wxPrintout()`

`Data = wxPrintData:wxPrintData()`

See external documentation.

`getCanvas(This) -> wxPreviewCanvas:wxPreviewCanvas()`

Types:

`This = wxPrintPreview()`

See external documentation.

`getCurrentPage(This) -> integer()`

Types:

`This = wxPrintPreview()`

See external documentation.

wxPrintPreview

getFrame(This) -> wxFrame:wxFrame()

Types:

This = wxPrintPreview()

See **external documentation**.

getMaxPage(This) -> integer()

Types:

This = wxPrintPreview()

See **external documentation**.

getMinPage(This) -> integer()

Types:

This = wxPrintPreview()

See **external documentation**.

getPrintout(This) -> wxPrintout:wxPrintout()

Types:

This = wxPrintPreview()

See **external documentation**.

getPrintoutForPrinting(This) -> wxPrintout:wxPrintout()

Types:

This = wxPrintPreview()

See **external documentation**.

isOk(This) -> boolean()

Types:

This = wxPrintPreview()

See **external documentation**.

paintPage(This, Canvas, Dc) -> boolean()

Types:

This = wxPrintPreview()

Canvas = wxPreviewCanvas:wxPreviewCanvas()

Dc = wxDC:wxDC()

See **external documentation**.

print(This, Interactive) -> boolean()

Types:

This = wxPrintPreview()

Interactive = boolean()

See **external documentation**.

renderPage(This, PageNum) -> boolean()

Types:

This = *wxPrintPreview()*

PageNum = *integer()*

See [external documentation](#).

setCanvas(This, Canvas) -> ok

Types:

This = *wxPrintPreview()*

Canvas = *wxPreviewCanvas:wxPreviewCanvas()*

See [external documentation](#).

setCurrentPage(This, PageNum) -> boolean()

Types:

This = *wxPrintPreview()*

PageNum = *integer()*

See [external documentation](#).

setFrame(This, Frame) -> ok

Types:

This = *wxPrintPreview()*

Frame = *wxFrame:wxFrame()*

See [external documentation](#).

setPrintout(This, Printout) -> ok

Types:

This = *wxPrintPreview()*

Printout = *wxPrintout:wxPrintout()*

See [external documentation](#).

setZoom(This, Percent) -> ok

Types:

This = *wxPrintPreview()*

Percent = *integer()*

See [external documentation](#).

destroy(This::wxPrintPreview()) -> ok

Destroys this object, do not use object again

wxPrinter

Erlang module

See external documentation: **wxPrinter**.

DATA TYPES

`wxPrinter()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxPrinter()`

Equivalent to `new([])`.

`new(Options:::[Option]) -> wxPrinter()`

Types:

`Option = {data, wxPrintDialogData:wxPrintDialogData()}`

See **external documentation**.

`createAbortWindow(This, Parent, Printout) -> wxWindow:wxWindow()`

Types:

```
This = wxPrinter()  
Parent = wxWindow:wxWindow()  
Printout = wxPrintout:wxPrintout()
```

See **external documentation**.

`getAbort(This) -> boolean()`

Types:

`This = wxPrinter()`

See **external documentation**.

`getLastErrorCode() -> wx:wx_enum()`

See **external documentation**.

Res = ?wxPRINTER_NO_ERROR | ?wxPRINTER_CANCELLED | ?wxPRINTER_ERROR

`getPrintDialogData(This) -> wxPrintDialogData:wxPrintDialogData()`

Types:

`This = wxPrinter()`

See **external documentation**.

```
print(This, Parent, Printout) -> boolean()
```

Types:

```
This = wxPrinter()  
Parent = wxWindow:wxWindow()  
Printout = wxPrintout:wxPrintout()
```

Equivalent to *print(This, Parent, Printout, [])*.

```
print(This, Parent, Printout, Options:[Option]) -> boolean()
```

Types:

```
This = wxPrinter()  
Parent = wxWindow:wxWindow()  
Printout = wxPrintout:wxPrintout()  
Option = {prompt, boolean()}
```

See **external documentation**.

```
printDialog(This, Parent) -> wxDC:wxDC()
```

Types:

```
This = wxPrinter()  
Parent = wxWindow:wxWindow()
```

See **external documentation**.

```
reportError(This, Parent, Printout, Message) -> ok
```

Types:

```
This = wxPrinter()  
Parent = wxWindow:wxWindow()  
Printout = wxPrintout:wxPrintout()  
Message = unicode:chardata()
```

See **external documentation**.

```
setup(This, Parent) -> boolean()
```

Types:

```
This = wxPrinter()  
Parent = wxWindow:wxWindow()
```

See **external documentation**.

```
destroy(This::wxPrinter()) -> ok
```

Destroys this object, do not use object again

wxPrintout

Erlang module

See external documentation: **wxPrintout**.

DATA TYPES

`wxPrintout()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

```
new>Title::string(), OnPrintPage::function() -> wxPrintout:wxPrintout()  
@equiv new>Title, OnPrintPage, []]
```

```
new>Title::string(), OnPrintPage::function(), Opts:[Option] ->  
wxPrintout:wxPrintout()
```

Types:

```
Option = {onPreparePrinting, OnPreparePrinting::function()}  
| {onBeginPrinting, OnBeginPrinting::function()} |  
{onEndPrinting, OnEndPrinting::function()} | {onBeginDocument,  
OnBeginDocument::function()} | {onEndDocument, OnEndDocument::function()}  
| {hasPage, HasPage::function()} | {getPageInfo, GetPageInfo::function()}
```

Creates a `wxPrintout` object with a callback fun and optionally other callback funs.

<code>OnPrintPage(This,Page) -> boolean()</code>
<code>OnPreparePrinting(This) -> term()</code>
<code>OnBeginPrinting(This) -> term()</code>
<code>OnEndPrinting(This) -> term()</code>
<code>OnBeginDocument(This,StartPage,EndPage) -> boolean()</code>
<code>OnEndDocument(This) -> term()</code>
<code>HasPage(This,Page) -> boolean()</code>
<code>GetPageInfo(This) -> {MinPage::integer(), MaxPage::integer(), PageFrom::integer(), PageTo::integer()}</code>

The `This` argument is the `wxPrintout` object reference to this object

NOTE: The callbacks may not call other processes.

`getDC(This) -> wxDC:wxDC()`

Types:

```
This = wxPrintout()
```

See **external documentation**.

getPageSizeMM(This) -> {W::integer(), H::integer()}

Types:

This = wxPrintout()

See **external documentation**.

getPageSizePixels(This) -> {W::integer(), H::integer()}

Types:

This = wxPrintout()

See **external documentation**.

getPaperRectPixels(This) -> {X::integer(), Y::integer(), W::integer(), H::integer()}

Types:

This = wxPrintout()

See **external documentation**.

getPPIPrinter(This) -> {X::integer(), Y::integer()}

Types:

This = wxPrintout()

See **external documentation**.

getPPIScreen(This) -> {X::integer(), Y::integer()}

Types:

This = wxPrintout()

See **external documentation**.

getTitle(This) -> unicode:charlist()

Types:

This = wxPrintout()

See **external documentation**.

isPreview(This) -> boolean()

Types:

This = wxPrintout()

See **external documentation**.

fitThisSizeToPaper(This, ImageSize) -> ok

Types:

This = wxPrintout()

ImageSize = {W::integer(), H::integer()}

See **external documentation**.

wxPrintout

fitThisSizeToPage(This, ImageSize) -> ok

Types:

```
This = wxPrintout()  
ImageSize = {W::integer(), H::integer()}
```

See [external documentation](#).

fitThisSizeToPageMargins(This, ImageSize, PageSetupData) -> ok

Types:

```
This = wxPrintout()  
ImageSize = {W::integer(), H::integer()}  
PageSetupData = wxPageSetupDialogData:wxPageSetupDialogData()
```

See [external documentation](#).

mapScreenSizeToPaper(This) -> ok

Types:

```
This = wxPrintout()
```

See [external documentation](#).

mapScreenSizeToPage(This) -> ok

Types:

```
This = wxPrintout()
```

See [external documentation](#).

mapScreenSizeToPageMargins(This, PageSetupData) -> ok

Types:

```
This = wxPrintout()  
PageSetupData = wxPageSetupDialogData:wxPageSetupDialogData()
```

See [external documentation](#).

mapScreenSizeToDevice(This) -> ok

Types:

```
This = wxPrintout()
```

See [external documentation](#).

getLogicalPaperRect(This) -> {X::integer(), Y::integer(), W::integer(), H::integer()}

Types:

```
This = wxPrintout()
```

See [external documentation](#).

getLogicalPageRect(This) -> {X::integer(), Y::integer(), W::integer(), H::integer()}

Types:

```
This = wxPrintout()
```

See [external documentation](#).

```
getLogicalPageMarginsRect(This, PageSetupData) -> {X::integer(),  
Y::integer(), W::integer(), H::integer()}
```

Types:

```
This = wxPrintout()
```

```
PageSetupData = wxPageSetupDialogData:wxPageSetupDialogData()
```

See [external documentation](#).

```
setLogicalOrigin(This, X, Y) -> ok
```

Types:

```
This = wxPrintout()
```

```
X = integer()
```

```
Y = integer()
```

See [external documentation](#).

```
offsetLogicalOrigin(This, Xoff, Yoff) -> ok
```

Types:

```
This = wxPrintout()
```

```
Xoff = integer()
```

```
Yoff = integer()
```

See [external documentation](#).

```
destroy(This::wxPrintout()) -> ok
```

Destroys this object, do not use object again

wxProgressDialog

Erlang module

See external documentation: **wxProgressDialog**.

This class is derived (and can use functions) from:

wxDialo
wxTopLevelWindow
wxWindow
wxEvtHandler

DATA TYPES

`wxProgressDialog()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new>Title, Message) -> wxProgressDialog()`

Types:

```
Title = unicode:chardata()  
Message = unicode:chardata()
```

Equivalent to `new>Title, Message, []`.

`new>Title, Message, Options::[Option]) -> wxProgressDialog()`

Types:

```
Title = unicode:chardata()  
Message = unicode:chardata()  
Option = {maximum, integer()} | {parent, wxWindow:wxWindow()} | {style, integer()}
```

See [external documentation](#).

`resume(This) -> ok`

Types:

```
This = wxProgressDialog()
```

See [external documentation](#).

`update(This) -> ok`

Types:

```
This = wxProgressDialog()
```

See [external documentation](#).

`update(This, Value) -> boolean()`

Types:

`This = wxProgressDialog()`

`Value = integer()`

Equivalent to `update(This, Value, []).`

`update(This, Value, Options::[Option]) -> boolean()`

Types:

`This = wxProgressDialog()`

`Value = integer()`

`Option = {newmsg, unicode:chardata()}`

See [external documentation](#).

`destroy(This::wxProgressDialog()) -> ok`

Destroys this object, do not use object again

wxQueryNewPaletteEvent

Erlang module

See external documentation: [wxQueryNewPaletteEvent](#).

Use `wxEvtHandler:connect/3` with EventType:

query_new_palette

See also the message variant `#wxQueryNewPalette{}` event record type.

This class is derived (and can use functions) from:

wxEvent

DATA TYPES

`wxQueryNewPaletteEvent()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`setPaletteRealized(This, Realized) -> ok`

Types:

```
This = wxQueryNewPaletteEvent()
Realized = boolean()
```

See [external documentation](#).

`getPaletteRealized(This) -> boolean()`

Types:

```
This = wxQueryNewPaletteEvent()
```

See [external documentation](#).

wxRadioBox

Erlang module

See external documentation: **wxRadioBox**.

This class is derived (and can use functions) from:

wxControl
wxWindow
wxEvtHandler

DATA TYPES

`wxRadioBox()`

An object reference. The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new(Parent, Id, Title, Pos, Size, Choices) -> wxRadioBox()`

Types:

```
Parent = wxWindow:wxWindow()
Id = integer()
Title = unicode:chardata()
Pos = {X::integer(), Y::integer()}
Size = {W::integer(), H::integer()}
Choices = [unicode:chardata()]
```

Equivalent to `new(Parent, Id, Title, Pos, Size, Choices, [])`.

`new(Parent, Id, Title, Pos, Size, Choices, Options:[Option]) -> wxRadioBox()`

Types:

```
Parent = wxWindow:wxWindow()
Id = integer()
Title = unicode:chardata()
Pos = {X::integer(), Y::integer()}
Size = {W::integer(), H::integer()}
Choices = [unicode:chardata()]
Option = {majorDim, integer()} | {style, integer()} | {val,
wx:wx_object()}
```

See external documentation.

`create(This, Parent, Id, Title, Pos, Size, Choices) -> boolean()`

Types:

```
This = wxRadioBox()
Parent = wxWindow:wxWindow()
```

wxRadioBox

```
Id = integer()
Title = unicode:chardata()
Pos = {X::integer(), Y::integer()}
Size = {W::integer(), H::integer()}
Choices = [unicode:chardata()]
```

Equivalent to *create(This, Parent, Id, Title, Pos, Size, Choices, [])*.

```
create(This, Parent, Id, Title, Pos, Size, Choices, Options:[Option]) ->
boolean()
```

Types:

```
This = wxRadioBox()
Parent = wxWindow:wxWindow()
Id = integer()
Title = unicode:chardata()
Pos = {X::integer(), Y::integer()}
Size = {W::integer(), H::integer()}
Choices = [unicode:chardata()]
Option = {majorDim, integer()} | {style, integer()} | {val,
wx:wx_object()}
```

See [external documentation](#).

```
enable(This) -> boolean()
```

Types:

```
This = wxRadioBox()
```

Equivalent to *enable(This, [])*.

```
enable(This, N) -> boolean()
```

Types:

```
This = wxRadioBox()
N = integer()
```

See [external documentation](#).

Also:

enable(This, [Option]) -> boolean() when

This::wxRadioBox(),

Option :: {'enable', boolean()}.

```
enable(This, N, Options:[Option]) -> boolean()
```

Types:

```
This = wxRadioBox()
N = integer()
Option = {enable, boolean()}
```

See [external documentation](#).

getSelection(This) -> integer()

Types:

This = **wxRadioBox()**

See [external documentation](#).

getString(This, N) -> unicode:charlist()

Types:

This = **wxRadioBox()**

N = **integer()**

See [external documentation](#).

setSelection(This, N) -> ok

Types:

This = **wxRadioBox()**

N = **integer()**

See [external documentation](#).

show(This) -> boolean()

Types:

This = **wxRadioBox()**

Equivalent to *show(This, []).*

show(This, N) -> boolean()

Types:

This = **wxRadioBox()**

N = **integer()**

See [external documentation](#).

Also:

show(This, [Option]) -> boolean() when

This::wxRadioBox(),

Option :: {'show', boolean()}.

show(This, N, Options::[Option]) -> boolean()

Types:

This = **wxRadioBox()**

N = **integer()**

Option = {**show**, **boolean()**}

See [external documentation](#).

getColumnCount(This) -> integer()

Types:

This = **wxRadioBox()**

See [external documentation](#).

wxRadioBox

getItemHelpText(This, N) -> unicode:charlist()

Types:

```
This = wxRadioBox()
N = integer()
```

See [external documentation](#).

getItemToolTip(This, Item) -> wxToolTip:wxToolTip()

Types:

```
This = wxRadioBox()
Item = integer()
```

See [external documentation](#).

getItemFromPoint(This, Pt) -> integer()

Types:

```
This = wxRadioBox()
Pt = {X::integer(), Y::integer()}
```

See [external documentation](#).

getRowCount(This) -> integer()

Types:

```
This = wxRadioBox()
```

See [external documentation](#).

isItemEnabled(This, N) -> boolean()

Types:

```
This = wxRadioBox()
N = integer()
```

See [external documentation](#).

isItemShown(This, N) -> boolean()

Types:

```
This = wxRadioBox()
N = integer()
```

See [external documentation](#).

setItemHelpText(This, N, HelpText) -> ok

Types:

```
This = wxRadioBox()
N = integer()
HelpText = unicode:chardata()
```

See [external documentation](#).

`setItemToolTip(This, Item, Text) -> ok`

Types:

```
This = wxRadioBox()
Item = integer()
Text = unicode:chardata()
```

See [external documentation](#).

`destroy(This::wxRadioBox()) -> ok`

Destroys this object, do not use object again

wxRadioButton

Erlang module

See external documentation: **wxRadioButton**.

This class is derived (and can use functions) from:

wxControl

wxWindow

wxEvtHandler

DATA TYPES

`wxRadioButton()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxRadioButton()`

See **external documentation**.

`new(Parent, Id, Label) -> wxRadioButton()`

Types:

```
Parent = wxWindow:wxWindow()
Id = integer()
Label = unicode:chardata()
```

Equivalent to `new(Parent, Id, Label, [])`.

`new(Parent, Id, Label, Options:[Option]) -> wxRadioButton()`

Types:

```
Parent = wxWindow:wxWindow()
Id = integer()
Label = unicode:chardata()
Option = {pos, {X::integer(), Y::integer()}} | {size, {W::integer(),
H::integer()}} | {style, integer()} | {validator, wx:wx_object()}
```

See **external documentation**.

`create(This, Parent, Id, Label) -> boolean()`

Types:

```
This = wxRadioButton()
Parent = wxWindow:wxWindow()
Id = integer()
Label = unicode:chardata()
```

Equivalent to `create(This, Parent, Id, Label, [])`.

```
create(This, Parent, Id, Label, Options::[Option]) -> boolean()
```

Types:

```
This = wxRadioButton()  
Parent = wxWindow:wxWindow()  
Id = integer()  
Label = unicode:chardata()  
Option = {pos, {X::integer(), Y::integer()}} | {size, {W::integer(),  
H::integer()}} | {style, integer()} | {validator, wx:wx_object()}
```

See [external documentation](#).

```
getValue(This) -> boolean()
```

Types:

```
This = wxRadioButton()
```

See [external documentation](#).

```
setValue(This, Val) -> ok
```

Types:

```
This = wxRadioButton()  
Val = boolean()
```

See [external documentation](#).

```
destroy(This::wxRadioButton()) -> ok
```

Destroys this object, do not use object again

wxRegion

Erlang module

See external documentation: **wxRegion**.

DATA TYPES

`wxRegion()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxRegion()`

See **external documentation**.

`new(Bmp) -> wxRegion()`

Types:

`Bmp = wxBitmap:wxBitmap()`

See **external documentation**.

Also:

`new(Rect) -> wxRegion() when
Rect:::{X::integer(), Y::integer(), W::integer(), H::integer()}.`

`new(TopLeft, BottomRight) -> wxRegion()`

Types:

`TopLeft = {X::integer(), Y::integer()}
BottomRight = {X::integer(), Y::integer()}`

See **external documentation**.

`new(X, Y, W, H) -> wxRegion()`

Types:

`X = integer()
Y = integer()
W = integer()
H = integer()`

See **external documentation**.

`clear(This) -> ok`

Types:

`This = wxRegion()`

See **external documentation**.

```
contains(This, Pt) -> wx:wx_enum()
```

Types:

```
This = wxRegion()
Pt = {X::integer(), Y::integer()}
```

See [external documentation](#).

Also:

```
contains(This, Rect) -> wx:wx_enum() when
This::wxRegion(), Rect:{X::integer(), Y::integer(), W::integer(), H::integer()}.
```

Res = ?wxOutRegion | ?wxPartRegion | ?wxInRegion

```
contains(This, X, Y) -> wx:wx_enum()
```

Types:

```
This = wxRegion()
X = integer()
Y = integer()
```

See [external documentation](#).

Res = ?wxOutRegion | ?wxPartRegion | ?wxInRegion

```
contains(This, X, Y, W, H) -> wx:wx_enum()
```

Types:

```
This = wxRegion()
X = integer()
Y = integer()
W = integer()
H = integer()
```

See [external documentation](#).

Res = ?wxOutRegion | ?wxPartRegion | ?wxInRegion

```
convertToBitmap(This) -> wxBitmap:wxBitmap()
```

Types:

```
This = wxRegion()
```

See [external documentation](#).

```
getBox(This) -> {X::integer(), Y::integer(), W::integer(), H::integer()}
```

Types:

```
This = wxRegion()
```

See [external documentation](#).

```
intersect(This, Region) -> boolean()
```

Types:

```
This = wxRegion()
Region = wxRegion()
```

See [external documentation](#).

Also:

wxRegion

intersect(This, Rect) -> boolean() when
This::wxRegion(), Rect::{X::integer(), Y::integer(), W::integer(), H::integer()}.

intersect(This, X, Y, W, H) -> boolean()

Types:

```
This = wxRegion()
X = integer()
Y = integer()
W = integer()
H = integer()
```

See [external documentation](#).

isEmpty(This) -> boolean()

Types:

```
This = wxRegion()
```

See [external documentation](#).

subtract(This, Region) -> boolean()

Types:

```
This = wxRegion()
Region = wxRegion()
```

See [external documentation](#).

Also:

subtract(This, Rect) -> boolean() when
This::wxRegion(), Rect::{X::integer(), Y::integer(), W::integer(), H::integer()}.

subtract(This, X, Y, W, H) -> boolean()

Types:

```
This = wxRegion()
X = integer()
Y = integer()
W = integer()
H = integer()
```

See [external documentation](#).

offset(This, Pt) -> boolean()

Types:

```
This = wxRegion()
Pt = {X::integer(), Y::integer()}
```

See [external documentation](#).

offset(This, X, Y) -> boolean()

Types:

```
This = wxRegion()
```

```
X = integer()
Y = integer()
```

See external documentation.

union(This, Region) -> boolean()

Types:

```
This = wxRegion()
Region = wxRegion() | wxBitmap:wxBitmap()
```

See external documentation.

Also:

union(This, Rect) -> boolean() when

This::wxRegion(), Rect:{X::integer(), Y::integer(), W::integer(), H::integer()}.

union(This, Bmp, Transp) -> boolean()

Types:

```
This = wxRegion()
Bmp = wxBitmap:wxBitmap()
Transp = wx:wx_colour()
```

Equivalent to *union(This, Bmp, Transp, [])*.

union(This, Bmp, Transp, Options:[Option]) -> boolean()

Types:

```
This = wxRegion()
Bmp = wxBitmap:wxBitmap()
Transp = wx:wx_colour()
Option = {tolerance, integer()}
```

See external documentation.

union(This, X, Y, W, H) -> boolean()

Types:

```
This = wxRegion()
X = integer()
Y = integer()
W = integer()
H = integer()
```

See external documentation.

Xor(This, Region) -> boolean()

Types:

```
This = wxRegion()
Region = wxRegion()
```

See external documentation.

Also:

'Xor'(This, Rect) -> boolean() when

wxRegion

This::wxRegion(), Rect::{X::integer(), Y::integer(), W::integer(), H::integer()}.
Xor(This, X, Y, W, H) -> boolean()

Types:

```
  This = wxRegion()
  X = integer()
  Y = integer()
  W = integer()
  H = integer()
```

See [external documentation](#).

destroy(This::wxRegion()) -> ok

Destroys this object, do not use object again

wxSashEvent

Erlang module

See external documentation: **wxSashEvent**.

Use *wxEvtHandler:connect/3* with EventType:

sash_dragged

See also the message variant `#wxSash{}` event record type.

This class is derived (and can use functions) from:

wxCommandEvent

wxEvent

DATA TYPES

`wxSashEvent()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`getEdge(This) -> wx:wx_enum()`

Types:

`This = wxSashEvent()`

See **external documentation**.

Res = ?wxSASH_TOP | ?wxSASH_RIGHT | ?wxSASH_BOTTOM | ?wxSASH_LEFT | ?wxSASH_NONE

`getDragRect(This) -> {X::integer(), Y::integer(), W::integer(), H::integer()}`

Types:

`This = wxSashEvent()`

See **external documentation**.

`getDragStatus(This) -> wx:wx_enum()`

Types:

`This = wxSashEvent()`

See **external documentation**.

Res = ?wxSASH_STATUS_OK | ?wxSASH_STATUS_OUT_OF_RANGE

wxSashLayoutWindow

Erlang module

See external documentation: **wxSashLayoutWindow**.

This class is derived (and can use functions) from:

wxSashWindow

wxWindow

wxEvtHandler

DATA TYPES

`wxSashLayoutWindow()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxSashLayoutWindow()`

See **external documentation**.

`new(Parent) -> wxSashLayoutWindow()`

Types:

`Parent = wxWindow:wxWindow()`

Equivalent to `new(Parent, [])`.

`new(Parent, Options:[Option]) -> wxSashLayoutWindow()`

Types:

`Parent = wxWindow:wxWindow()`

`Option = {id, integer()} | {pos, {X::integer(), Y::integer()}} | {size, {W::integer(), H::integer()}} | {style, integer()}`

See **external documentation**.

`create(This, Parent) -> boolean()`

Types:

`This = wxSashLayoutWindow()`

`Parent = wxWindow:wxWindow()`

Equivalent to `create(This, Parent, [])`.

`create(This, Parent, Options:[Option]) -> boolean()`

Types:

`This = wxSashLayoutWindow()`

`Parent = wxWindow:wxWindow()`

```
Option = {id, integer()} | {pos, {X::integer(), Y::integer()}} | {size,  
{W::integer(), H::integer()}} | {style, integer()}
```

See [external documentation](#).

getAlignment(This) -> wx:wx_enum()

Types:

```
This = wxSashLayoutWindow()
```

See [external documentation](#).

```
Res = ?wxLAYOUT_NONE | ?wxLAYOUT_TOP | ?wxLAYOUT_LEFT | ?wxLAYOUT_RIGHT | ?  
wxLAYOUT_BOTTOM
```

getOrientation(This) -> wx:wx_enum()

Types:

```
This = wxSashLayoutWindow()
```

See [external documentation](#).

```
Res = ?wxLAYOUT_HORIZONTAL | ?wxLAYOUT_VERTICAL
```

setAlignment(This, Align) -> ok

Types:

```
This = wxSashLayoutWindow()
```

```
Align = wx:wx_enum()
```

See [external documentation](#).

```
Align = ?wxLAYOUT_NONE | ?wxLAYOUT_TOP | ?wxLAYOUT_LEFT | ?wxLAYOUT_RIGHT | ?  
wxLAYOUT_BOTTOM
```

setDefaultSize(This, Size) -> ok

Types:

```
This = wxSashLayoutWindow()
```

```
Size = {W::integer(), H::integer()}
```

See [external documentation](#).

setOrientation(This, Orient) -> ok

Types:

```
This = wxSashLayoutWindow()
```

```
Orient = wx:wx_enum()
```

See [external documentation](#).

```
Orient = ?wxLAYOUT_HORIZONTAL | ?wxLAYOUT_VERTICAL
```

destroy(This::wxSashLayoutWindow()) -> ok

Destroys this object, do not use object again

wxSashWindow

Erlang module

See external documentation: **wxSashWindow**.

This class is derived (and can use functions) from:

wxWindow

wxEvtHandler

DATA TYPES

`wxSashWindow()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxSashWindow()`

See **external documentation**.

`new(Parent) -> wxSashWindow()`

Types:

`Parent = wxWindow:wxWindow()`

Equivalent to `new(Parent, [])`.

`new(Parent, Options:[Option]) -> wxSashWindow()`

Types:

`Parent = wxWindow:wxWindow()`
`Option = {id, integer()} | {pos, {X::integer(), Y::integer()}} | {size, {W::integer(), H::integer()}} | {style, integer()}`

See **external documentation**.

`getSashVisible(This, Edge) -> boolean()`

Types:

`This = wxSashWindow()`
`Edge = wx:wx_enum()`

See **external documentation**.

`Edge = ?wxSASH_TOP | ?wxSASH_RIGHT | ?wxSASH_BOTTOM | ?wxSASH_LEFT | ?wxSASH_NONE`

`getMaximumSizeX(This) -> integer()`

Types:

`This = wxSashWindow()`

See **external documentation**.

getMaximumSizeY(This) -> integer()

Types:

This = *wxSashWindow()*

See **external documentation**.

getMinimumSizeX(This) -> integer()

Types:

This = *wxSashWindow()*

See **external documentation**.

getMinimumSizeY(This) -> integer()

Types:

This = *wxSashWindow()*

See **external documentation**.

setMaximumSizeX(This, Max) -> ok

Types:

This = *wxSashWindow()*

Max = *integer()*

See **external documentation**.

setMaximumSizeY(This, Max) -> ok

Types:

This = *wxSashWindow()*

Max = *integer()*

See **external documentation**.

setMinimumSizeX(This, Min) -> ok

Types:

This = *wxSashWindow()*

Min = *integer()*

See **external documentation**.

setMinimumSizeY(This, Min) -> ok

Types:

This = *wxSashWindow()*

Min = *integer()*

See **external documentation**.

setSashVisible(This, Edge, Sash) -> ok

Types:

This = *wxSashWindow()*

Edge = *wx:wx_enum()*

wxSashWindow

Sash = boolean()

See [external documentation](#).

Edge = ?wxSASH_TOP | ?wxSASH_RIGHT | ?wxSASH_BOTTOM | ?wxSASH_LEFT | ?wxSASH_NONE

destroy(This::wxSashWindow()) -> ok

Destroys this object, do not use object again

wxScreenDC

Erlang module

See external documentation: **wxScreenDC**.

This class is derived (and can use functions) from:
wxDC

DATA TYPES

`wxScreenDC()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxScreenDC()`

See **external documentation**.

`destroy(This::wxScreenDC()) -> ok`

Destroys this object, do not use object again

wxScrollBar

Erlang module

See external documentation: **wxScrollBar**.

This class is derived (and can use functions) from:

wxControl

wxWindow

wxEvtHandler

DATA TYPES

wxScrollBar()

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

new() -> wxScrollBar()

See **external documentation**.

new(Parent, Id) -> wxScrollBar()

Types:

```
Parent = wxWindow:wxWindow()
Id = integer()
```

Equivalent to *new(Parent, Id, [])*.

new(Parent, Id, Options:[Option]) -> wxScrollBar()

Types:

```
Parent = wxWindow:wxWindow()
Id = integer()
Option = {pos, {X::integer(), Y::integer()}} | {size, {W::integer(),
H::integer()}} | {style, integer()} | {validator, wx:wx_object()}
```

See **external documentation**.

create(This, Parent, Id) -> boolean()

Types:

```
This = wxScrollBar()
Parent = wxWindow:wxWindow()
Id = integer()
```

Equivalent to *create(This, Parent, Id, [])*.

create(This, Parent, Id, Options:[Option]) -> boolean()

Types:

```
This = wxScrollBar()
Parent = wxWindow::wxWindow()
Id = integer()
Option = {pos, {X::integer(), Y::integer()}} | {size, {W::integer(),
H::integer()}} | {style, integer()} | {validator, wx:wx_object()}
```

See [external documentation](#).

`getRange(This) -> integer()`

Types:

```
This = wxScrollBar()
```

See [external documentation](#).

`getPageSize(This) -> integer()`

Types:

```
This = wxScrollBar()
```

See [external documentation](#).

`getThumbPosition(This) -> integer()`

Types:

```
This = wxScrollBar()
```

See [external documentation](#).

`getThumbSize(This) -> integer()`

Types:

```
This = wxScrollBar()
```

See [external documentation](#).

`setThumbPosition(This, ViewStart) -> ok`

Types:

```
This = wxScrollBar()
ViewStart = integer()
```

See [external documentation](#).

`setScrollbar(This, Position, ThumbSize, Range, PageSize) -> ok`

Types:

```
This = wxScrollBar()
Position = integer()
ThumbSize = integer()
Range = integer()
PageSize = integer()
```

Equivalent to `setScrollbar(This, Position, ThumbSize, Range, PageSize, []).`

wxScrollBar

`setScrollbar(This, Position, ThumbSize, Range, PageSize, Options::[Option]) -> ok`

Types:

```
This = wxScrollBar()
Position = integer()
ThumbSize = integer()
Range = integer()
PageSize = integer()
Option = {refresh, boolean()}
```

See [external documentation](#).

`destroy(This::wxScrollBar()) -> ok`

Destroys this object, do not use object again

wxScrollEvent

Erlang module

See external documentation: **wxScrollEvent**.

Use *wxEvtHandler:connect/3* with EventType:

scroll_top, scroll_bottom, scroll_lineup, scroll_linedown, scroll_pageup, scroll_pagedown,
scroll_thumbtrack, scroll_thumbrlease, scroll_changed

See also the message variant `#wxScroll{}` event record type.

This class is derived (and can use functions) from:

wxCommandEvent

wxEvent

DATA TYPES

`wxScrollEvent()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`getOrientation(This) -> integer()`

Types:

`This = wxScrollEvent()`

See **external documentation**.

`getPosition(This) -> integer()`

Types:

`This = wxScrollEvent()`

See **external documentation**.

wxScrollWinEvent

Erlang module

See external documentation: **wxScrollWinEvent**.

Use *wxEvtHandler:connect/3* with EventType:

scrollwin_top, scrollwin_bottom, scrollwin_lineup, scrollwin_linedown, scrollwin_pageup,
scrollwin_pagedown, scrollwin_thumbtrack, scrollwin_thumorelease

See also the message variant `#wxScrollWin{}` event record type.

This class is derived (and can use functions) from:

wxEvtHandler

DATA TYPES

`wxScrollWinEvent()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`getOrientation(This) -> integer()`

Types:

`This = wxScrollWinEvent()`

See **external documentation**.

`getPosition(This) -> integer()`

Types:

`This = wxScrollWinEvent()`

See **external documentation**.

wxScrolledWindow

Erlang module

See external documentation: **wxScrolledWindow**.

This class is derived (and can use functions) from:

wxPanel

wxWindow

wxEvtHandler

DATA TYPES

`wxScrolledWindow()`

An object reference. The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxScrolledWindow()`

See **external documentation**.

`new(Parent) -> wxScrolledWindow()`

Types:

`Parent = wxWindow:wxWindow()`

Equivalent to `new(Parent, [])`.

`new(Parent, Options:[Option]) -> wxScrolledWindow()`

Types:

`Parent = wxWindow:wxWindow()`

`Option = {winid, integer()} | {pos, {X::integer(), Y::integer()}} | {size, {W::integer(), H::integer()}} | {style, integer()}`

See **external documentation**.

`calcScrolledPosition(This, Pt) -> {X::integer(), Y::integer()}`

Types:

`This = wxScrolledWindow()`

`Pt = {X::integer(), Y::integer()}`

See **external documentation**.

`calcScrolledPosition(This, X, Y) -> {Xx::integer(), Yy::integer()}`

Types:

`This = wxScrolledWindow()`

`X = integer()`

`Y = integer()`

wxScrolledWindow

See [external documentation](#).

`calcUnscrolledPosition(This, Pt) -> {X::integer(), Y::integer()}`

Types:

```
This = wxScrolledWindow()
Pt = {X::integer(), Y::integer()}
```

See [external documentation](#).

`calcUnscrolledPosition(This, X, Y) -> {Xx::integer(), Yy::integer()}`

Types:

```
This = wxScrolledWindow()
X = integer()
Y = integer()
```

See [external documentation](#).

`enableScrolling(This, X_scrolling, Y_scrolling) -> ok`

Types:

```
This = wxScrolledWindow()
X_scrolling = boolean()
Y_scrolling = boolean()
```

See [external documentation](#).

`getScrollPixelsPerUnit(This) -> {PixelsPerUnitX::integer(),
PixelsPerUnitY::integer()}`

Types:

```
This = wxScrolledWindow()
```

See [external documentation](#).

`getViewStart(This) -> {X::integer(), Y::integer()}`

Types:

```
This = wxScrolledWindow()
```

See [external documentation](#).

`doPrepareDC(This, Dc) -> ok`

Types:

```
This = wxScrolledWindow()
Dc = wxDC:wxDC()
```

See [external documentation](#).

`prepareDC(This, Dc) -> ok`

Types:

```
This = wxScrolledWindow()
Dc = wxDC:wxDC()
```

See [external documentation](#).

`scroll(This, X, Y) -> ok`

Types:

```
This = wxScrolledWindow()
X = integer()
Y = integer()
```

See [external documentation](#).

`setScrollbars(This, PixelsPerUnitX, PixelsPerUnitY, NoUnitsX, NoUnitsY) -> ok`

Types:

```
This = wxScrolledWindow()
PixelsPerUnitX = integer()
PixelsPerUnitY = integer()
NoUnitsX = integer()
NoUnitsY = integer()
```

Equivalent to `setScrollbars(This, PixelsPerUnitX, PixelsPerUnitY, NoUnitsX, NoUnitsY, []).`

`setScrollbars(This, PixelsPerUnitX, PixelsPerUnitY, NoUnitsX, NoUnitsY, Options::[Option]) -> ok`

Types:

```
This = wxScrolledWindow()
PixelsPerUnitX = integer()
PixelsPerUnitY = integer()
NoUnitsX = integer()
NoUnitsY = integer()
Option = {xPos, integer()} | {yPos, integer()} | {noRefresh, boolean()}
```

See [external documentation](#).

`setScrollRate(This, Xstep, Ystep) -> ok`

Types:

```
This = wxScrolledWindow()
Xstep = integer()
Ystep = integer()
```

See [external documentation](#).

`setTargetWindow(This, Target) -> ok`

Types:

```
This = wxScrolledWindow()
Target = wxWindow:wxWindow()
```

See [external documentation](#).

wxScrolledWindow

destroy(This::wxScrolledWindow()) -> ok

Destroys this object, do not use object again

wxSetCursorEvent

Erlang module

See external documentation: **wxSetCursorEvent**.

Use *wxEvtHandler:connect/3* with EventType:

set_cursor

See also the message variant `#wxSetCursor{}` event record type.

This class is derived (and can use functions) from:

wxEvent

DATA TYPES

`wxSetCursorEvent()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`getCursor(This) -> wxCursor:wxCursor()`

Types:

`This = wxSetCursorEvent()`

See **external documentation**.

`getX(This) -> integer()`

Types:

`This = wxSetCursorEvent()`

See **external documentation**.

`getY(This) -> integer()`

Types:

`This = wxSetCursorEvent()`

See **external documentation**.

`hasCursor(This) -> boolean()`

Types:

`This = wxSetCursorEvent()`

See **external documentation**.

`setCursor(This, Cursor) -> ok`

Types:

`This = wxSetCursorEvent()`

`Cursor = wxCursor:wxCursor()`

wxSetCursorEvent

See **external documentation**.

wxShowEvent

Erlang module

See external documentation: **wxShowEvent**.

Use *wxEvtHandler:connect/3* with EventType:

show

See also the message variant `#wxShow{}` event record type.

This class is derived (and can use functions) from:

wxEvent

DATA TYPES

`wxShowEvent()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`setShow(This, Show) -> ok`

Types:

```
  This = wxShowEvent()
  Show = boolean()
```

See external documentation.

`getShow(This) -> boolean()`

Types:

```
  This = wxShowEvent()
```

See external documentation.

wxSingleChoiceDialog

Erlang module

See external documentation: **wxSingleChoiceDialog**.

This class is derived (and can use functions) from:

wxDialog
wxTopLevelWindow
wxWindow
wxEvtHandler

DATA TYPES

`wxSingleChoiceDialog()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxSingleChoiceDialog()`

See **external documentation**.

`new(Parent, Message, Caption, Choices) -> wxSingleChoiceDialog()`

Types:

```
Parent = wxWindow:wxWindow()
Message = unicode:chardata()
Caption = unicode:chardata()
Choices = [unicode:chardata()]
```

Equivalent to `new(Parent, Message, Caption, Choices, [])`.

`new(Parent, Message, Caption, Choices, Options:[Option]) -> wxSingleChoiceDialog()`

Types:

```
Parent = wxWindow:wxWindow()
Message = unicode:chardata()
Caption = unicode:chardata()
Choices = [unicode:chardata()]
Option = {style, integer()} | {pos, {X::integer(), Y::integer()}}
```

See **external documentation**.

`getSelection(This) -> integer()`

Types:

```
This = wxSingleChoiceDialog()
```

See **external documentation**.

getStringSelection(This) -> unicode:charlist()

Types:

This = *wxSingleChoiceDialog()*

See [external documentation](#).

setSelection(This, Sel) -> ok

Types:

This = *wxSingleChoiceDialog()*

Sel = *integer()*

See [external documentation](#).

destroy(This::wxSingleChoiceDialog()) -> ok

Destroys this object, do not use object again

wxSizeEvent

Erlang module

See external documentation: **wxSizeEvent**.

Use *wxEvtHandler:connect/3* with EventType:

size

See also the message variant `#wxSize{}` event record type.

This class is derived (and can use functions) from:

wxEvent

DATA TYPES

`wxSizeEvent()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`getSize(This) -> {W::integer(), H::integer()}`

Types:

`This = wxSizeEvent()`

See **external documentation**.

wxSizer

Erlang module

See external documentation: **wxSizer**.

DATA TYPES

`wxSizer()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`add(This, Window) -> wxSizerItem:wxSizerItem()`

Types:

```
This = wxSizer()
Window = wxWindow:wxWindow() | wxSizer()
```

Equivalent to `add(This, Window, [])`.

`add(This, Width, Height) -> wxSizerItem:wxSizerItem()`

Types:

```
This = wxSizer()
Width = integer()
Height = integer()
```

See [external documentation](#).

Also:

```
add(This, Window, [Option]) -> wxSizerItem:wxSizerItem() when
This::wxSizer(), Window::wxWindow:wxWindow() | wxSizer(),
Option :: {'proportion', integer()}
| {'flag', integer()}
| {'border', integer()}
| {'userData', wx:wx_object()};
(This, Window, Flags) -> wxSizerItem:wxSizerItem() when
This::wxSizer(), Window::wxWindow:wxWindow() | wxSizer(), Flags::wxSizerFlags:wxSizerFlags().
```

`add(This, Width, Height, Options::[Option]) -> wxSizerItem:wxSizerItem()`

Types:

```
This = wxSizer()
Width = integer()
Height = integer()
Option = {proportion, integer()} | {flag, integer()} | {border, integer()}
| {userData, wx:wx_object()}
```

See [external documentation](#).

wxSizer

`addSpacer(This, Size) -> wxSizerItem:wxSizerItem()`

Types:

```
This = wxSizer()  
Size = integer()
```

See [external documentation](#).

`addStretchSpacer(This) -> wxSizerItem:wxSizerItem()`

Types:

```
This = wxSizer()
```

Equivalent to `addStretchSpacer(This, []).`

`addStretchSpacer(This, Options:[Option]) -> wxSizerItem:wxSizerItem()`

Types:

```
This = wxSizer()  
Option = {prop, integer()}
```

See [external documentation](#).

`calcMin(This) -> {W:integer(), H:integer()}`

Types:

```
This = wxSizer()
```

See [external documentation](#).

`clear(This) -> ok`

Types:

```
This = wxSizer()
```

Equivalent to `clear(This, [])`.

`clear(This, Options:[Option]) -> ok`

Types:

```
This = wxSizer()  
Option = {delete_windows, boolean()}
```

See [external documentation](#).

`detach(This, Index) -> boolean()`

Types:

```
This = wxSizer()  
Index = integer()
```

See [external documentation](#).

Also:

`detach(This, Window) -> boolean()` when

`This::wxSizer(), Window::wxWindow:wxWindow() | wxSizer().`

```
fit(This, Window) -> {W::integer(), H::integer()}
```

Types:

```
This = wxSizer()
Window = wxWindow:wxWindow()
```

See [external documentation](#).

```
fitInside(This, Window) -> ok
```

Types:

```
This = wxSizer()
Window = wxWindow:wxWindow()
```

See [external documentation](#).

```
getChildren(This) -> [wxSizerItem:wxSizerItem()]
```

Types:

```
This = wxSizer()
```

See [external documentation](#).

```
getItem(This, Window) -> wxSizerItem:wxSizerItem()
```

Types:

```
This = wxSizer()
Window = wxWindow:wxWindow() | wxSizer()
```

See [external documentation](#).

Also:

`getItem(This, Index)` -> `wxSizerItem:wxSizerItem()` when
This::wxSizer(), Index::integer().

```
getItem(This, Window, Options:[Option]) -> wxSizerItem:wxSizerItem()
```

Types:

```
This = wxSizer()
Window = wxWindow:wxWindow() | wxSizer()
Option = {recursive, boolean()}
```

See [external documentation](#).

```
getSize(This) -> {W::integer(), H::integer()}
```

Types:

```
This = wxSizer()
```

See [external documentation](#).

```
getPosition(This) -> {X::integer(), Y::integer()}
```

Types:

```
This = wxSizer()
```

See [external documentation](#).

wxSizer

getMinSize(This) -> {W::integer(), H::integer()}

Types:

This = `wxSizer()`

See [external documentation](#).

hide(This, Window) -> boolean()

Types:

This = `wxSizer()`

Window = `wxWindow:wxWindow() | wxSizer()`

See [external documentation](#).

Also:

hide(This, Index) -> boolean() when

This::wxSizer(), Index::integer().

hide(This, Window, Options:[Option]) -> boolean()

Types:

This = `wxSizer()`

Window = `wxWindow:wxWindow() | wxSizer()`

Option = {recursive, boolean()}

See [external documentation](#).

insert(This, Index, Item) -> wxSizerItem:wxSizerItem()

Types:

This = `wxSizer()`

Index = `integer()`

Item = `wxSizerItem:wxSizerItem()`

See [external documentation](#).

insert(This, Index, Width, Height) -> wxSizerItem:wxSizerItem()

Types:

This = `wxSizer()`

Index = `integer()`

Width = `integer()`

Height = `integer()`

See [external documentation](#).

Also:

insert(This, Index, Window, [Option]) -> wxSizerItem:wxSizerItem() when

This::wxSizer(), Index::integer(), Window::wxWindow:wxWindow() | wxSizer(),

Option :: {'proportion', integer()}

| {'flag', integer()}

| {'border', integer()}

| {'userData', wx:wx_object()};

(This, Index, Window, Flags) -> wxSizerItem:wxSizerItem() when

This::wxSizer(), Index::integer(), Window::wxWindow:wxWindow()

Flags::wxSizerFlags:wxSizerFlags(). | wxSizer(),

```
insert(This, Index, Width, Height, Options::[Option]) ->
wxSizerItem:wxSizerItem()
```

Types:

```
This = wxSizer()
Index = integer()
Width = integer()
Height = integer()
Option = {proportion, integer()} | {flag, integer()} | {border, integer()}
| {userData, wx:wx_object()}
```

See [external documentation](#).

```
insertSpacer(This, Index, Size) -> wxSizerItem:wxSizerItem()
```

Types:

```
This = wxSizer()
Index = integer()
Size = integer()
```

See [external documentation](#).

```
insertStretchSpacer(This, Index) -> wxSizerItem:wxSizerItem()
```

Types:

```
This = wxSizer()
Index = integer()
```

Equivalent to *insertStretchSpacer(This, Index, [])*.

```
insertStretchSpacer(This, Index, Options::[Option]) ->
wxSizerItem:wxSizerItem()
```

Types:

```
This = wxSizer()
Index = integer()
Option = {prop, integer()}
```

See [external documentation](#).

```
isShown(This, Index) -> boolean()
```

Types:

```
This = wxSizer()
Index = integer()
```

See [external documentation](#).

Also:

`isShown(This, Window)` -> `boolean()` when
`This::wxSizer()`, `Window::wxWindow:wxWindow()` | `wxSizer()`.

```
layout(This) -> ok
```

Types:

```
This = wxSizer()
```

wxSizer

See [external documentation](#).

`prepend(This, Item) -> wxSizerItem:wxSizerItem()`

Types:

```
This = wxSizer()
Item = wxSizerItem:wxSizerItem()
```

See [external documentation](#).

`prepend(This, Width, Height) -> wxSizerItem:wxSizerItem()`

Types:

```
This = wxSizer()
Width = integer()
Height = integer()
```

See [external documentation](#).

Also:

`prepend(This, Window, [Option]) -> wxSizerItem:wxSizerItem() when`

`This::wxSizer(), Window::wxWindow:wxWindow() | wxSizer(),`

`Option :: {'proportion', integer()}`

`| {'flag', integer()}`

`| {'border', integer()}`

`| {'userData', wx:wx_object()};`

`(This, Window, Flags) -> wxSizerItem:wxSizerItem() when`

`This::wxSizer(), Window::wxWindow:wxWindow() | wxSizer(), Flags::wxSizerFlags:wxSizerFlags().`

`prepend(This, Width, Height, Options:[Option]) -> wxSizerItem:wxSizerItem()`

Types:

```
This = wxSizer()
Width = integer()
Height = integer()
Option = {proportion, integer()} | {flag, integer()} | {border, integer()}
| {userData, wx:wx_object() }
```

See [external documentation](#).

`prependSpacer(This, Size) -> wxSizerItem:wxSizerItem()`

Types:

```
This = wxSizer()
Size = integer()
```

See [external documentation](#).

`prependStretchSpacer(This) -> wxSizerItem:wxSizerItem()`

Types:

```
This = wxSizer()
```

Equivalent to `prependStretchSpacer(This, [])`.

prependStretchSpacer(This, Options::[Option]) -> wxSizerItem:wxSizerItem()
 Types:

```
This = wxSizer()
Option = {prop, integer()}
```

See [external documentation](#).

recalcSizes(This) -> ok

Types:

```
This = wxSizer()
```

See [external documentation](#).

remove(This, Index) -> boolean()

Types:

```
This = wxSizer()
Index = integer()
```

See [external documentation](#).

Also:

remove(This, Sizer) -> boolean() when

This::wxSizer(), Sizer::wxSizer().

replace(This, Oldwin, Newwin) -> boolean()

Types:

```
This = wxSizer()
Oldwin = wxWindow:wxWindow() | wxSizer()
Newwin = wxWindow:wxWindow() | wxSizer()
```

See [external documentation](#).

Also:

replace(This, Index, Newitem) -> boolean() when

This::wxSizer(), Index::integer(), Newitem::wxSizerItem:wxSizerItem().

replace(This, Oldwin, Newwin, Options::[Option]) -> boolean()

Types:

```
This = wxSizer()
Oldwin = wxWindow:wxWindow() | wxSizer()
Newwin = wxWindow:wxWindow() | wxSizer()
Option = {recursive, boolean()}
```

See [external documentation](#).

setDimension(This, X, Y, Width, Height) -> ok

Types:

```
This = wxSizer()
X = integer()
Y = integer()
Width = integer()
```

wxSizer

`Height = integer()`

See [external documentation](#).

`setMinSize(This, Size) -> ok`

Types:

`This = wxSizer()`
`Size = {W::integer(), H::integer()}`

See [external documentation](#).

`setMinSize(This, Width, Height) -> ok`

Types:

`This = wxSizer()`
`Width = integer()`
`Height = integer()`

See [external documentation](#).

`setItemMinSize(This, Index, Size) -> boolean()`

Types:

`This = wxSizer()`
`Index = integer()`
`Size = {W::integer(), H::integer()}`

See [external documentation](#).

Also:

`setItemMinSize(This, Window, Size) -> boolean()` when

`This::wxSizer(), Window::wxWindow:wxWindow() | wxSizer(), Size:{W::integer(), H::integer()}`.

`setItemMinSize(This, Index, Width, Height) -> boolean()`

Types:

`This = wxSizer()`
`Index = integer()`
`Width = integer()`
`Height = integer()`

See [external documentation](#).

Also:

`setItemMinSize(This, Window, Width, Height) -> boolean()` when

`This::wxSizer(), Window::wxWindow:wxWindow() | wxSizer(), Width::integer(), Height::integer()`.

`setSizeHints(This, Window) -> ok`

Types:

`This = wxSizer()`
`Window = wxWindow:wxWindow()`

See [external documentation](#).

`setVirtualSizeHints(This, Window) -> ok`

Types:

`This = wxSizer()`
`Window = wxWindow:wxWindow()`

See [external documentation](#).

`show(This, Index) -> boolean()`

Types:

`This = wxSizer()`
`Index = integer()`

See [external documentation](#).

Also:

`show(This, Window) -> boolean()` when
This::wxSizer(), Window::wxWindow:wxWindow() | wxSizer();
`(This, Show) -> 'ok'` when
This::wxSizer(), Show::boolean().

`show(This, Index, Options:[Option]) -> boolean()`

Types:

`This = wxSizer()`
`Index = integer()`
`Option = {show, boolean()}`

See [external documentation](#).

Also:

`show(This, Window, [Option]) -> boolean()` when
This::wxSizer(), Window::wxWindow:wxWindow() | wxSizer(),
Option :: {'show', boolean()}
| {'recursive', boolean()}.

wxSizerFlags

Erlang module

See external documentation: **wxSizerFlags**.

DATA TYPES

`wxSizerFlags()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxSizerFlags()`

Equivalent to `new([])`.

`new(Options:::[Option]) -> wxSizerFlags()`

Types:

`Option = {proportion, integer()}`

See **external documentation**.

`align(This, Alignment) -> wxSizerFlags()`

Types:

`This = wxSizerFlags()`

`Alignment = integer()`

See **external documentation**.

`border(This) -> wxSizerFlags()`

Types:

`This = wxSizerFlags()`

Equivalent to `border(This, [])`.

`border(This, Options:::[Option]) -> wxSizerFlags()`

Types:

`This = wxSizerFlags()`

`Option = {direction, integer()}`

See **external documentation**.

`border(This, Direction, BorderInPixels) -> wxSizerFlags()`

Types:

`This = wxSizerFlags()`

`Direction = integer()`

`BorderInPixels = integer()`

See [external documentation](#).

`center(This) -> wxSizerFlags()`

Types:

`This = wxSizerFlags()`

See [external documentation](#).

`centre(This) -> wxSizerFlags()`

Types:

`This = wxSizerFlags()`

See [external documentation](#).

`expand(This) -> wxSizerFlags()`

Types:

`This = wxSizerFlags()`

See [external documentation](#).

`left(This) -> wxSizerFlags()`

Types:

`This = wxSizerFlags()`

See [external documentation](#).

`proportion(This, Proportion) -> wxSizerFlags()`

Types:

`This = wxSizerFlags()`

`Proportion = integer()`

See [external documentation](#).

`right(This) -> wxSizerFlags()`

Types:

`This = wxSizerFlags()`

See [external documentation](#).

`destroy(This::wxSizerFlags()) -> ok`

Destroys this object, do not use object again

wxSizerItem

Erlang module

See external documentation: **wxSizerItem**.

DATA TYPES

`wxSizerItem()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxSizerItem()`

See **external documentation**.

`new(Window, Flags) -> wxSizerItem()`

Types:

```
Window = wxWindow:wxWindow() | wxSizer:wxSizer()  
Flags = wxSizerFlags:wxSizerFlags()
```

See **external documentation**.

`new(Width, Height, Flags) -> wxSizerItem()`

Types:

```
Width = integer()  
Height = integer()  
Flags = wxSizerFlags:wxSizerFlags()
```

See **external documentation**.

`new(Window, Proportion, Flag, Border, UserData) -> wxSizerItem()`

Types:

```
Window = wxWindow:wxWindow() | wxSizer:wxSizer()  
Proportion = integer()  
Flag = integer()  
Border = integer()  
UserData = wx:wx_object()
```

See **external documentation**.

`new(Width, Height, Proportion, Flag, Border, UserData) -> wxSizerItem()`

Types:

```
Width = integer()  
Height = integer()  
Proportion = integer()
```

```
Flag = integer()
Border = integer()
UserData = wx:wx_object()
```

See [external documentation](#).

calcMin(This) -> {W::integer(), H::integer()}

Types:

```
This = wxSizerItem()
```

See [external documentation](#).

deleteWindows(This) -> ok

Types:

```
This = wxSizerItem()
```

See [external documentation](#).

detachSizer(This) -> ok

Types:

```
This = wxSizerItem()
```

See [external documentation](#).

getBorder(This) -> integer()

Types:

```
This = wxSizerItem()
```

See [external documentation](#).

getFlag(This) -> integer()

Types:

```
This = wxSizerItem()
```

See [external documentation](#).

getMinSize(This) -> {W::integer(), H::integer()}

Types:

```
This = wxSizerItem()
```

See [external documentation](#).

getPosition(This) -> {X::integer(), Y::integer()}

Types:

```
This = wxSizerItem()
```

See [external documentation](#).

getProportion(This) -> integer()

Types:

```
This = wxSizerItem()
```

wxSizerItem

See [external documentation](#).

`getRatio(This) -> number()`

Types:

`This = wxSizerItem()`

See [external documentation](#).

`getRect(This) -> {X::integer(), Y::integer(), W::integer(), H::integer()}`

Types:

`This = wxSizerItem()`

See [external documentation](#).

`getSize(This) -> {W::integer(), H::integer()}`

Types:

`This = wxSizerItem()`

See [external documentation](#).

`getSizer(This) -> wxSizer:wxSizer()`

Types:

`This = wxSizerItem()`

See [external documentation](#).

`getSpacer(This) -> {W::integer(), H::integer()}`

Types:

`This = wxSizerItem()`

See [external documentation](#).

`getUserData(This) -> wx:wx_object()`

Types:

`This = wxSizerItem()`

See [external documentation](#).

`getWindow(This) -> wxWindow:wxWindow()`

Types:

`This = wxSizerItem()`

See [external documentation](#).

`isSizer(This) -> boolean()`

Types:

`This = wxSizerItem()`

See [external documentation](#).

isShown(This) -> boolean()

Types:

This = `wxSizerItem()`

See [external documentation](#).

isSpacer(This) -> boolean()

Types:

This = `wxSizerItem()`

See [external documentation](#).

isWindow(This) -> boolean()

Types:

This = `wxSizerItem()`

See [external documentation](#).

setBorder(This, Border) -> ok

Types:

This = `wxSizerItem()`

Border = `integer()`

See [external documentation](#).

setDimension(This, Pos, Size) -> ok

Types:

This = `wxSizerItem()`

Pos = `{X::integer(), Y::integer()}`

Size = `{W::integer(), H::integer()}`

See [external documentation](#).

setFlag(This, Flag) -> ok

Types:

This = `wxSizerItem()`

Flag = `integer()`

See [external documentation](#).

setInitSize(This, X, Y) -> ok

Types:

This = `wxSizerItem()`

X = `integer()`

Y = `integer()`

See [external documentation](#).

setMinSize(This, Size) -> ok

Types:

wxSizerItem

```
This = wxSizerItem()
Size = {W::integer(), H::integer()}
```

See [external documentation](#).

setMinSize(This, X, Y) -> ok

Types:

```
This = wxSizerItem()
X = integer()
Y = integer()
```

See [external documentation](#).

setProportion(This, Proportion) -> ok

Types:

```
This = wxSizerItem()
Proportion = integer()
```

See [external documentation](#).

setRatio(This, Ratio) -> ok

Types:

```
This = wxSizerItem()
Ratio = number()
```

See [external documentation](#).

Also:

setRatio(This, Size) -> 'ok' when

This::wxSizerItem(), Size::{W::integer(), H::integer()}.

setRatio(This, Width, Height) -> ok

Types:

```
This = wxSizerItem()
Width = integer()
Height = integer()
```

See [external documentation](#).

setSizer(This, Sizer) -> ok

Types:

```
This = wxSizerItem()
Sizer = wxSizer:wxSizer()
```

See [external documentation](#).

setSpacer(This, Size) -> ok

Types:

```
This = wxSizerItem()
Size = {W::integer(), H::integer()}
```

See [external documentation](#).

`setSpacer(This, Width, Height) -> ok`

Types:

```
This = wxSizerItem()
Width = integer()
Height = integer()
```

See [external documentation](#).

`setWindow(This, Window) -> ok`

Types:

```
This = wxSizerItem()
Window = wxWindow:wxWindow()
```

See [external documentation](#).

`show(This, Show) -> ok`

Types:

```
This = wxSizerItem()
Show = boolean()
```

See [external documentation](#).

`destroy(This::wxSizerItem()) -> ok`

Destroys this object, do not use object again

wxSlider

Erlang module

See external documentation: **wxSlider**.

This class is derived (and can use functions) from:

wxControl

wxWindow

wxEvtHandler

DATA TYPES

`wxSlider()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxSlider()`

See **external documentation**.

`new(Parent, Id, Value, MinValue, MaxValue) -> wxSlider()`

Types:

```
Parent = wxWindow:wxWindow()
Id = integer()
Value = integer()
MinValue = integer()
MaxValue = integer()
```

Equivalent to `new(Parent, Id, Value, MinValue, MaxValue, []).`

`new(Parent, Id, Value, MinValue, MaxValue, Options:[Option]) -> wxSlider()`

Types:

```
Parent = wxWindow:wxWindow()
Id = integer()
Value = integer()
MinValue = integer()
MaxValue = integer()
Option = {pos, {X::integer(), Y::integer()} } | {size, {W::integer(),
H::integer()} } | {style, integer()} | {validator, wx:wx_object()}
```

See **external documentation**.

`create(This, Parent, Id, Value, MinValue, MaxValue) -> boolean()`

Types:

```
This = wxSlider()
```

```

Parent = wxWindow:wxWindow()
Id = integer()
Value = integer()
MinValue = integer()
MaxValue = integer()

```

Equivalent to *create(This, Parent, Id, Value, MinValue, MaxValue, [])*.

create(This, Parent, Id, Value, MinValue, MaxValue, Options:[Option]) -> boolean()

Types:

```

This = wxSlider()
Parent = wxWindow:wxWindow()
Id = integer()
Value = integer()
MinValue = integer()
MaxValue = integer()
Option = {pos, {X::integer(), Y::integer()}} | {size, {W::integer(),
H::integer()}} | {style, integer()} | {validator, wx:wx_object()}

```

See [external documentation](#).

getLineSize(This) -> integer()

Types:

```
This = wxSlider()
```

See [external documentation](#).

getMax(This) -> integer()

Types:

```
This = wxSlider()
```

See [external documentation](#).

getMin(This) -> integer()

Types:

```
This = wxSlider()
```

See [external documentation](#).

getPageSize(This) -> integer()

Types:

```
This = wxSlider()
```

See [external documentation](#).

getThumbLength(This) -> integer()

Types:

```
This = wxSlider()
```

wxSlider

See [external documentation](#).

`getValue(This) -> integer()`

Types:

`This = wxSlider()`

See [external documentation](#).

`setLineSize(This, LineSize) -> ok`

Types:

`This = wxSlider()`

`LineSize = integer()`

See [external documentation](#).

`setPageSize(This, PageSize) -> ok`

Types:

`This = wxSlider()`

`PageSize = integer()`

See [external documentation](#).

`setRange(This, MinValue, MaxValue) -> ok`

Types:

`This = wxSlider()`

`MinValue = integer()`

`MaxValue = integer()`

See [external documentation](#).

`setThumbLength(This, LenPixels) -> ok`

Types:

`This = wxSlider()`

`LenPixels = integer()`

See [external documentation](#).

`setValue(This, Value) -> ok`

Types:

`This = wxSlider()`

`Value = integer()`

See [external documentation](#).

`destroy(This::wxSlider()) -> ok`

Destroys this object, do not use object again

wxSpinButton

Erlang module

See external documentation: **wxSpinButton**.

This class is derived (and can use functions) from:

wxControl

wxWindow

wxEvtHandler

DATA TYPES

`wxSpinButton()`

An object reference. The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxSpinButton()`

See **external documentation**.

`new(Parent) -> wxSpinButton()`

Types:

Parent = wxWindow:wxWindow()

Equivalent to `new(Parent, [])`.

`new(Parent, Options:[Option]) -> wxSpinButton()`

Types:

Parent = wxWindow:wxWindow()

Option = {id, integer()} | {pos, {X::integer(), Y::integer()}} | {size, {W::integer(), H::integer()}} | {style, integer()}

See **external documentation**.

`create(This, Parent) -> boolean()`

Types:

This = wxSpinButton()

Parent = wxWindow:wxWindow()

Equivalent to `create(This, Parent, [])`.

`create(This, Parent, Options:[Option]) -> boolean()`

Types:

This = wxSpinButton()

Parent = wxWindow:wxWindow()

wxSpinButton

```
Option = {id, integer()} | {pos, {X::integer(), Y::integer()}} | {size,
{W::integer(), H::integer()}} | {style, integer()}
```

See [external documentation](#).

`getMax(This) -> integer()`

Types:

```
This = wxSpinButton()
```

See [external documentation](#).

`getMin(This) -> integer()`

Types:

```
This = wxSpinButton()
```

See [external documentation](#).

`getValue(This) -> integer()`

Types:

```
This = wxSpinButton()
```

See [external documentation](#).

`setRange(This, MinVal, MaxVal) -> ok`

Types:

```
This = wxSpinButton()
MinVal = integer()
MaxVal = integer()
```

See [external documentation](#).

`setValue(This, Value) -> ok`

Types:

```
This = wxSpinButton()
Value = integer()
```

See [external documentation](#).

`destroy(This::wxSpinButton()) -> ok`

Destroys this object, do not use object again

wxSpinCtrl

Erlang module

See external documentation: **wxSpinCtrl**.

This class is derived (and can use functions) from:

wxControl

wxWindow

wxEvtHandler

DATA TYPES

`wxSpinCtrl()`

An object reference. The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxSpinCtrl()`

See **external documentation**.

`new(Parent) -> wxSpinCtrl()`

Types:

`Parent = wxWindow:wxWindow()`

Equivalent to `new(Parent, [])`.

`new(Parent, Options:[Option]) -> wxSpinCtrl()`

Types:

`Parent = wxWindow:wxWindow()`

`Option = {id, integer()} | {value, unicode:chardata()} | {pos, {X::integer(), Y::integer()}} | {size, {W::integer(), H::integer()}} | {style, integer()} | {min, integer()} | {max, integer()} | {initial, integer()}`

See **external documentation**.

`create(This, Parent) -> boolean()`

Types:

`This = wxSpinCtrl()`

`Parent = wxWindow:wxWindow()`

Equivalent to `create(This, Parent, [])`.

`create(This, Parent, Options:[Option]) -> boolean()`

Types:

`This = wxSpinCtrl()`

`Parent = wxWindow:wxWindow()`

wxSpinCtrl

```
Option = {id, integer()} | {value, unicode:chardata()} | {pos,
{X::integer(), Y::integer()}} | {size, {W::integer(), H::integer()}}
| {style, integer()} | {min, integer()} | {max, integer()} | {initial,
integer()}
```

See [external documentation](#).

`setValue(This, Value) -> ok`

Types:

```
This = wxSpinCtrl()
Value = integer()
```

See [external documentation](#).

Also:

`setValue(This, Text) -> 'ok' when
This::wxSpinCtrl(), Text::unicode:chardata().`

`getValue(This) -> integer()`

Types:

```
This = wxSpinCtrl()
```

See [external documentation](#).

`setRange(This, MinVal, MaxVal) -> ok`

Types:

```
This = wxSpinCtrl()
MinVal = integer()
MaxVal = integer()
```

See [external documentation](#).

`setSelection(This, From, To) -> ok`

Types:

```
This = wxSpinCtrl()
From = integer()
To = integer()
```

See [external documentation](#).

`getMin(This) -> integer()`

Types:

```
This = wxSpinCtrl()
```

See [external documentation](#).

`getMax(This) -> integer()`

Types:

```
This = wxSpinCtrl()
```

See [external documentation](#).

`destroy(This::wxSpinCtrl()) -> ok`

Destroys this object, do not use object again

wxSpinEvent

Erlang module

See external documentation: **wxSpinEvent**.

Use *wxEvtHandler:connect/3* with EventType:

command_spinctrl_updated, spin_up, spin_down, spin

See also the message variant `#wxSpin{}` event record type.

This class is derived (and can use functions) from:

wxNotifyEvent

wxCommandEvent

wxEvent

DATA TYPES

`wxSpinEvent()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`getPosition(This) -> integer()`

Types:

This = wxSpinEvent()

See **external documentation**.

`setPosition(This, Pos) -> ok`

Types:

This = wxSpinEvent()

Pos = integer()

See **external documentation**.

wxSplashScreen

Erlang module

See external documentation: **wxSplashScreen**.

This class is derived (and can use functions) from:

wxFrame
wxTopLevelWindow
wxWindow
wxEvtHandler

DATA TYPES

`wxSplashScreen()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxSplashScreen()`

See **external documentation**.

`new(Bitmap, SplashStyle, Milliseconds, Parent, Id) -> wxSplashScreen()`

Types:

```
Bitmap = wxBitmap:wxBitmap()
SplashStyle = integer()
Milliseconds = integer()
Parent = wxWindow:wxWindow()
Id = integer()
```

Equivalent to `new(Bitmap, SplashStyle, Milliseconds, Parent, Id, [])`.

`new(Bitmap, SplashStyle, Milliseconds, Parent, Id, Options:[Option]) -> wxSplashScreen()`

Types:

```
Bitmap = wxBitmap:wxBitmap()
SplashStyle = integer()
Milliseconds = integer()
Parent = wxWindow:wxWindow()
Id = integer()
Option = {pos, {X::integer(), Y::integer()}} | {size, {W::integer(),
H::integer()}} | {style, integer()}
```

See **external documentation**.

`getSplashStyle(This) -> integer()`

Types:

wxSplashScreen

This = wxSplashScreen()

See [external documentation](#).

getTimeout(This) -> integer()

Types:

This = wxSplashScreen()

See [external documentation](#).

destroy(This::wxSplashScreen()) -> ok

Destroys this object, do not use object again

wxSplitterEvent

Erlang module

See external documentation: **wxSplitterEvent**.

Use *wxEvtHandler:connect/3* with EventType:

command_splitter_sash_pos_changed, command_splitter_doubleclicked, command_splitter_unsplit	command_splitter_sash_pos_changing,
--	--

See also the message variant `#wxSplitter{}` event record type.

This class is derived (and can use functions) from:

wxNotifyEvent
wxCommandEvent
wxEvtHandler

DATA TYPES

`wxSplitterEvent()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`getSashPosition(This) -> integer()`

Types:

This = wxSplitterEvent()

See **external documentation**.

`getX(This) -> integer()`

Types:

This = wxSplitterEvent()

See **external documentation**.

`getY(This) -> integer()`

Types:

This = wxSplitterEvent()

See **external documentation**.

`getWindowBeingRemoved(This) -> wxWindow:wxWindow()`

Types:

This = wxSplitterEvent()

See **external documentation**.

`setSashPosition(This, Pos) -> ok`

Types:

wxSplitterEvent

```
This = wxSplitterEvent()
Pos = integer()
```

See [external documentation](#).

wxSplitterWindow

Erlang module

See external documentation: **wxSplitterWindow**.

This class is derived (and can use functions) from:

wxWindow

wxEvtHandler

DATA TYPES

`wxSplitterWindow()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxSplitterWindow()`

See external documentation.

`new(Parent) -> wxSplitterWindow()`

Types:

`Parent = wxWindow:wxWindow()`

Equivalent to `new(Parent, [])`.

`new(Parent, Options::[Option]) -> wxSplitterWindow()`

Types:

`Parent = wxWindow:wxWindow()`

`Option = {id, integer()} | {pos, {X::integer(), Y::integer()}} | {size, {W::integer(), H::integer()}} | {style, integer()}`

See external documentation.

`create(This, Parent) -> boolean()`

Types:

`This = wxSplitterWindow()`

`Parent = wxWindow:wxWindow()`

Equivalent to `create(This, Parent, [])`.

`create(This, Parent, Options::[Option]) -> boolean()`

Types:

`This = wxSplitterWindow()`

`Parent = wxWindow:wxWindow()`

`Option = {id, integer()} | {pos, {X::integer(), Y::integer()}} | {size, {W::integer(), H::integer()}} | {style, integer()}`

wxSplitterWindow

See [external documentation](#).

`getMinimumPaneSize(This) -> integer()`

Types:

`This = wxSplitterWindow()`

See [external documentation](#).

`getSashGravity(This) -> number()`

Types:

`This = wxSplitterWindow()`

See [external documentation](#).

`getSashPosition(This) -> integer()`

Types:

`This = wxSplitterWindow()`

See [external documentation](#).

`getSplitMode(This) -> wx:wx_enum()`

Types:

`This = wxSplitterWindow()`

See [external documentation](#).

Res = ?wxSPLIT_HORIZONTAL | ?wxSPLIT_VERTICAL

`getWindow1(This) -> wxWindow:wxWindow()`

Types:

`This = wxSplitterWindow()`

See [external documentation](#).

`getWindow2(This) -> wxWindow:wxWindow()`

Types:

`This = wxSplitterWindow()`

See [external documentation](#).

`initialize(This, Window) -> ok`

Types:

`This = wxSplitterWindow()`

`Window = wxWindow:wxWindow()`

See [external documentation](#).

`isSplit(This) -> boolean()`

Types:

`This = wxSplitterWindow()`

See [external documentation](#).

```
replaceWindow(This, WinOld, WinNew) -> boolean()
```

Types:

```
This = wxSplitterWindow()  
WinOld = wxWindow:wxWindow()  
WinNew = wxWindow:wxWindow()
```

See [external documentation](#).

```
setSashGravity(This, Gravity) -> ok
```

Types:

```
This = wxSplitterWindow()  
Gravity = number()
```

See [external documentation](#).

```
setSashPosition(This, Position) -> ok
```

Types:

```
This = wxSplitterWindow()  
Position = integer()
```

Equivalent to *setSashPosition(This, Position, [])*.

```
setSashPosition(This, Position, Options:[Option]) -> ok
```

Types:

```
This = wxSplitterWindow()  
Position = integer()  
Option = {redraw, boolean()}
```

See [external documentation](#).

```
setSashSize(This, Width) -> ok
```

Types:

```
This = wxSplitterWindow()  
Width = integer()
```

See [external documentation](#).

```
setMinimumPaneSize(This, Min) -> ok
```

Types:

```
This = wxSplitterWindow()  
Min = integer()
```

See [external documentation](#).

```
setSplitMode(This, Mode) -> ok
```

Types:

```
This = wxSplitterWindow()  
Mode = integer()
```

See [external documentation](#).

wxSplitterWindow

`splitHorizontally(This, Window1, Window2) -> boolean()`

Types:

```
This = wxSplitterWindow()
Window1 = wxWindow:wxWindow()
Window2 = wxWindow:wxWindow()
```

Equivalent to `splitHorizontally(This, Window1, Window2, [])`.

`splitHorizontally(This, Window1, Window2, Options:[Option]) -> boolean()`

Types:

```
This = wxSplitterWindow()
Window1 = wxWindow:wxWindow()
Window2 = wxWindow:wxWindow()
Option = {sashPosition, integer()}
```

See [external documentation](#).

`splitVertically(This, Window1, Window2) -> boolean()`

Types:

```
This = wxSplitterWindow()
Window1 = wxWindow:wxWindow()
Window2 = wxWindow:wxWindow()
```

Equivalent to `splitVertically(This, Window1, Window2, [])`.

`splitVertically(This, Window1, Window2, Options:[Option]) -> boolean()`

Types:

```
This = wxSplitterWindow()
Window1 = wxWindow:wxWindow()
Window2 = wxWindow:wxWindow()
Option = {sashPosition, integer()}
```

See [external documentation](#).

`unsplit(This) -> boolean()`

Types:

```
This = wxSplitterWindow()
```

Equivalent to `unsplit(This, [])`.

`unsplit(This, Options:[Option]) -> boolean()`

Types:

```
This = wxSplitterWindow()
Option = {toRemove, wxWindow:wxWindow()}
```

See [external documentation](#).

`updateSize(This) -> ok`

Types:

```
This = wxSplitterWindow()
```

See [external documentation](#).

```
destroy(This::wxSplitterWindow()) -> ok
```

Destroys this object, do not use object again

wxStaticBitmap

Erlang module

See external documentation: **wxStaticBitmap**.

This class is derived (and can use functions) from:

wxControl

wxWindow

wxEvtHandler

DATA TYPES

`wxStaticBitmap()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxStaticBitmap()`

See **external documentation**.

`new(Parent, Id, Label) -> wxStaticBitmap()`

Types:

```
Parent = wxWindow:wxWindow()
Id = integer()
Label = wxBitmap:wxBitmap()
```

Equivalent to `new(Parent, Id, Label, [])`.

`new(Parent, Id, Label, Options:[Option]) -> wxStaticBitmap()`

Types:

```
Parent = wxWindow:wxWindow()
Id = integer()
Label = wxBitmap:wxBitmap()
Option = {pos, {X::integer(), Y::integer()}} | {size, {W::integer(),
H::integer()}} | {style, integer()}
```

See **external documentation**.

`create(This, Parent, Id, Label) -> boolean()`

Types:

```
This = wxStaticBitmap()
Parent = wxWindow:wxWindow()
Id = integer()
Label = wxBitmap:wxBitmap()
```

Equivalent to `create(This, Parent, Id, Label, [])`.

create(This, Parent, Id, Label, Options:[Option]) -> boolean()
Types:

```
This = wxStaticBitmap()
Parent = wxWindow:wxWindow()
Id = integer()
Label = wxBitmap:wxBitmap()
Option = {pos, {X::integer(), Y::integer()}} | {size, {W::integer(),
H::integer()}} | {style, integer()}
```

See [external documentation](#).

getBitmap(This) -> wxBitmap:wxBitmap()

Types:

```
This = wxStaticBitmap()
```

See [external documentation](#).

setBitmap(This, Bitmap) -> ok

Types:

```
This = wxStaticBitmap()
Bitmap = wxBitmap:wxBitmap()
```

See [external documentation](#).

destroy(This::wxStaticBitmap()) -> ok

Destroys this object, do not use object again

wxStaticBox

Erlang module

See external documentation: **wxStaticBox**.

This class is derived (and can use functions) from:

wxControl

wxWindow

wxEvtHandler

DATA TYPES

wxStaticBox()

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

new() -> wxStaticBox()

See **external documentation**.

new(Parent, Id, Label) -> wxStaticBox()

Types:

```
Parent = wxWindow:wxWindow()
Id = integer()
Label = unicode:chardata()
```

Equivalent to *new(Parent, Id, Label, [])*.

new(Parent, Id, Label, Options:[Option]) -> wxStaticBox()

Types:

```
Parent = wxWindow:wxWindow()
Id = integer()
Label = unicode:chardata()
Option = {pos, {X::integer(), Y::integer()}} | {size, {W::integer(),
H::integer()}} | {style, integer()}
```

See **external documentation**.

create(This, Parent, Id, Label) -> boolean()

Types:

```
This = wxStaticBox()
Parent = wxWindow:wxWindow()
Id = integer()
Label = unicode:chardata()
```

Equivalent to *create(This, Parent, Id, Label, [])*.

create(This, Parent, Id, Label, Options:[Option]) -> boolean()

Types:

```
This = wxStaticBox()
Parent = wxWindow:wxWindow()
Id = integer()
Label = unicode:chardata()
Option = {pos, {X::integer(), Y::integer()}} | {size, {W::integer(),
H::integer()}} | {style, integer()}
```

See external documentation.

destroy(This::wxStaticBox()) -> ok

Destroys this object, do not use object again

wxStaticBoxSizer

Erlang module

See external documentation: **wxStaticBoxSizer**.

This class is derived (and can use functions) from:

wxBoxSizer

wxSizer

DATA TYPES

`wxStaticBoxSizer()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new(Orient, Win) -> wxStaticBoxSizer()`

Types:

```
 Orient = integer()
 Win = wxWindow:wxWindow()
```

See [external documentation](#).

Also:

`new(Box, Orient) -> wxStaticBoxSizer() when
Box::wxStaticBox:wxStaticBox(), Orient::integer().`

`new(Orient, Win, Options:[Option]) -> wxStaticBoxSizer()`

Types:

```
 Orient = integer()
 Win = wxWindow:wxWindow()
 Option = {label, unicode:chardata()}
```

See [external documentation](#).

`getStaticBox(This) -> wxStaticBox:wxStaticBox()`

Types:

```
This = wxStaticBoxSizer()
```

See [external documentation](#).

`destroy(This::wxStaticBoxSizer()) -> ok`

Destroys this object, do not use object again

wxStaticLine

Erlang module

See external documentation: **wxStaticLine**.

This class is derived (and can use functions) from:

wxControl

wxWindow

wxEvtHandler

DATA TYPES

`wxStaticLine()`

An object reference. The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxStaticLine()`

See **external documentation**.

`new(Parent) -> wxStaticLine()`

Types:

`Parent = wxWindow:wxWindow()`

Equivalent to `new(Parent, [])`.

`new(Parent, Options:[Option]) -> wxStaticLine()`

Types:

`Parent = wxWindow:wxWindow()`

`Option = {id, integer()} | {pos, {X::integer(), Y::integer()}} | {size, {W::integer(), H::integer()}} | {style, integer()}`

See **external documentation**.

`create(This, Parent) -> boolean()`

Types:

`This = wxStaticLine()`

`Parent = wxWindow:wxWindow()`

Equivalent to `create(This, Parent, [])`.

`create(This, Parent, Options:[Option]) -> boolean()`

Types:

`This = wxStaticLine()`

`Parent = wxWindow:wxWindow()`

wxStaticLine

```
Option = {id, integer()} | {pos, {X::integer(), Y::integer()}} | {size,  
{W::integer(), H::integer()}} | {style, integer()}
```

See [external documentation](#).

isVertical(This) -> boolean()

Types:

```
This = wxStaticLine()
```

See [external documentation](#).

getDefaultValue() -> integer()

See [external documentation](#).

destroy(This::wxStaticLine()) -> ok

Destroys this object, do not use object again

wxStaticText

Erlang module

See external documentation: **wxStaticText**.

This class is derived (and can use functions) from:

wxControl

wxWindow

wxEvtHandler

DATA TYPES

`wxStaticText()`

An object reference. The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxStaticText()`

See **external documentation**.

`new(Parent, Id, Label) -> wxStaticText()`

Types:

```
Parent = wxWindow:wxWindow()
Id = integer()
Label = unicode:chardata()
```

Equivalent to `new(Parent, Id, Label, [])`.

`new(Parent, Id, Label, Options:[Option]) -> wxStaticText()`

Types:

```
Parent = wxWindow:wxWindow()
Id = integer()
Label = unicode:chardata()
Option = {pos, {X::integer(), Y::integer()}} | {size, {W::integer(),
H::integer()}} | {style, integer()}
```

See **external documentation**.

`create(This, Parent, Id, Label) -> boolean()`

Types:

```
This = wxStaticText()
Parent = wxWindow:wxWindow()
Id = integer()
Label = unicode:chardata()
```

Equivalent to `create(This, Parent, Id, Label, [])`.

wxStaticText

create(This, Parent, Id, Label, Options:[Option]) -> boolean()
Types:

```
This = wxStaticText()
Parent = wxWindow:wxWindow()
Id = integer()
Label = unicode:chardata()
Option = {pos, {X::integer(), Y::integer()}} | {size, {W::integer(),
H::integer()}} | {style, integer()}
```

See [external documentation](#).

getLabel(This) -> unicode:charlist()

Types:

```
This = wxStaticText()
```

See [external documentation](#).

setLabel(This, Label) -> ok

Types:

```
This = wxStaticText()
Label = unicode:chardata()
```

See [external documentation](#).

wrap(This, Width) -> ok

Types:

```
This = wxStaticText()
Width = integer()
```

See [external documentation](#).

destroy(This::wxStaticText()) -> ok

Destroys this object, do not use object again

wxStatusBar

Erlang module

See external documentation: **wxStatusBar**.

This class is derived (and can use functions) from:

wxWindow

wxEvtHandler

DATA TYPES

`wxStatusBar()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxStatusBar()`

See **external documentation**.

`new(Parent) -> wxStatusBar()`

Types:

`Parent = wxWindow:wxWindow()`

Equivalent to `new(Parent, [])`.

`new(Parent, Options::[Option]) -> wxStatusBar()`

Types:

`Parent = wxWindow:wxWindow()`

`Option = {winid, integer()} | {style, integer()}`

See **external documentation**.

`create(This, Parent) -> boolean()`

Types:

`This = wxStatusBar()`

`Parent = wxWindow:wxWindow()`

Equivalent to `create(This, Parent, [])`.

`create(This, Parent, Options::[Option]) -> boolean()`

Types:

`This = wxStatusBar()`

`Parent = wxWindow:wxWindow()`

`Option = {winid, integer()} | {style, integer()}`

See **external documentation**.

wxStatusBar

getFieldRect(This, I) -> Result

Types:

```
Result = {Res:::boolean(), Rect:::{x:::integer(), y:::integer(), w:::integer(),
H:::integer()}}  
This = wxStatusBar()  
I = integer()
```

See [external documentation](#).

getFieldsCount(This) -> integer()

Types:

```
This = wxStatusBar()
```

See [external documentation](#).

getStatusText(This) -> unicode:charlist()

Types:

```
This = wxStatusBar()
```

Equivalent to *getStatusText(This, [])*.

getStatusText(This, Options::[Option]) -> unicode:charlist()

Types:

```
This = wxStatusBar()  
Option = {number, integer()}
```

See [external documentation](#).

popStatusText(This) -> ok

Types:

```
This = wxStatusBar()
```

Equivalent to *popStatusText(This, [])*.

popStatusText(This, Options::[Option]) -> ok

Types:

```
This = wxStatusBar()  
Option = {number, integer()}
```

See [external documentation](#).

pushStatusText(This, Text) -> ok

Types:

```
This = wxStatusBar()  
Text = unicode:chardata()
```

Equivalent to *pushStatusText(This, Text, [])*.

pushStatusText(This, Text, Options::[Option]) -> ok

Types:

```
This = wxStatusBar()
Text = unicode:chardata()
Option = {number, integer()}
```

See [external documentation](#).

`setFieldsCount(This, Number) -> ok`

Types:

```
This = wxStatusBar()
Number = integer()
```

Equivalent to `setFieldsCount(This, Number, [])`.

`setFieldsCount(This, Number, Options:[Option]) -> ok`

Types:

```
This = wxStatusBar()
Number = integer()
Option = {widths, [integer()]}
```

See [external documentation](#).

`setMinHeight(This, Height) -> ok`

Types:

```
This = wxStatusBar()
Height = integer()
```

See [external documentation](#).

`setStatusText(This, Text) -> ok`

Types:

```
This = wxStatusBar()
Text = unicode:chardata()
```

Equivalent to `setStatusText(This, Text, [])`.

`setStatusText(This, Text, Options:[Option]) -> ok`

Types:

```
This = wxStatusBar()
Text = unicode:chardata()
Option = {number, integer()}
```

See [external documentation](#).

`setStatusWidths(This, Widths_field) -> ok`

Types:

```
This = wxStatusBar()
Widths_field = [integer()]
```

See [external documentation](#).

wxStatusBar

`setStatusStyles(This, Styles) -> ok`

Types:

`This = wxStatusBar()`

`Styles = [integer()]`

See [external documentation](#).

`destroy(This::wxStatusBar()) -> ok`

Destroys this object, do not use object again

wxStdDialogButtonSizer

Erlang module

See external documentation: **wxStdDialogButtonSizer**.

This class is derived (and can use functions) from:

wxBxSizer

wxSizer

DATA TYPES

`wxStdDialogButtonSizer()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxStdDialogButtonSizer()`

See **external documentation**.

`addButton(This, Button) -> ok`

Types:

```
 This = wxStdDialogButtonSizer()
 Button = wxButton:wxButton()
```

See **external documentation**.

`realize(This) -> ok`

Types:

```
 This = wxStdDialogButtonSizer()
```

See **external documentation**.

`setAffirmativeButton(This, Button) -> ok`

Types:

```
 This = wxStdDialogButtonSizer()
 Button = wxButton:wxButton()
```

See **external documentation**.

`setCancelButton(This, Button) -> ok`

Types:

```
 This = wxStdDialogButtonSizer()
 Button = wxButton:wxButton()
```

See **external documentation**.

wxStdDialogButtonSizer

setNegativeButton(This, Button) -> ok

Types:

This = wxStdDialogButtonSizer()

Button = wxButton:wxButton()

See **external documentation**.

destroy(This::wxStdDialogButtonSizer()) -> ok

Destroys this object, do not use object again

wxStyledTextCtrl

Erlang module

See external documentation: **wxStyledTextCtrl**.

This class is derived (and can use functions) from:

wxControl

wxWindow

wxEvtHandler

DATA TYPES

`wxStyledTextCtrl()`

An object reference. The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxStyledTextCtrl()`

See **external documentation**.

`new(Parent) -> wxStyledTextCtrl()`

Types:

`Parent = wxWindow:wxWindow()`

Equivalent to `new(Parent, [])`.

`new(Parent, Options:[Option]) -> wxStyledTextCtrl()`

Types:

`Parent = wxWindow:wxWindow()`

`Option = {id, integer()} | {pos, {X::integer(), Y::integer()}} | {size, {W::integer(), H::integer()}} | {style, integer()}`

See **external documentation**.

`create(This, Parent) -> boolean()`

Types:

`This = wxStyledTextCtrl()`

`Parent = wxWindow:wxWindow()`

Equivalent to `create(This, Parent, [])`.

`create(This, Parent, Options:[Option]) -> boolean()`

Types:

`This = wxStyledTextCtrl()`

`Parent = wxWindow:wxWindow()`

wxStyledTextCtrl

```
Option = {id, integer()} | {pos, {X::integer(), Y::integer()}} | {size,
{W::integer(), H::integer()}} | {style, integer()}
```

See [external documentation](#).

addText(This, Text) -> ok

Types:

```
This = wxStyledTextCtrl()  
Text = unicode:chardata()
```

See [external documentation](#).

addStyledText(This, Data) -> ok

Types:

```
This = wxStyledTextCtrl()  
Data = wx:wx_object()
```

See [external documentation](#).

insertText(This, Pos, Text) -> ok

Types:

```
This = wxStyledTextCtrl()  
Pos = integer()  
Text = unicode:chardata()
```

See [external documentation](#).

clearAll(This) -> ok

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

clearDocumentStyle(This) -> ok

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

getLength(This) -> integer()

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

getCharAt(This, Pos) -> integer()

Types:

```
This = wxStyledTextCtrl()  
Pos = integer()
```

See [external documentation](#).

getCurrentPos(This) -> integer()

Types:

This = *wxStyledTextCtrl()*

See [external documentation](#).

getAnchor(This) -> integer()

Types:

This = *wxStyledTextCtrl()*

See [external documentation](#).

getStyleAt(This, Pos) -> integer()

Types:

This = *wxStyledTextCtrl()*

Pos = *integer()*

See [external documentation](#).

redo(This) -> ok

Types:

This = *wxStyledTextCtrl()*

See [external documentation](#).

setUndoCollection(This, CollectUndo) -> ok

Types:

This = *wxStyledTextCtrl()*

CollectUndo = *boolean()*

See [external documentation](#).

selectAll(This) -> ok

Types:

This = *wxStyledTextCtrl()*

See [external documentation](#).

setSavePoint(This) -> ok

Types:

This = *wxStyledTextCtrl()*

See [external documentation](#).

getStyledText(This, StartPos, EndPos) -> *wx:wx_object()*

Types:

This = *wxStyledTextCtrl()*

StartPos = *integer()*

EndPos = *integer()*

See [external documentation](#).

wxStyledTextCtrl

canRedo(This) -> boolean()

Types:

This = *wxStyledTextCtrl()*

See [external documentation](#).

markerLineFromHandle(This, Handle) -> integer()

Types:

This = *wxStyledTextCtrl()*

Handle = *integer()*

See [external documentation](#).

markerDeleteHandle(This, Handle) -> ok

Types:

This = *wxStyledTextCtrl()*

Handle = *integer()*

See [external documentation](#).

getUndoCollection(This) -> boolean()

Types:

This = *wxStyledTextCtrl()*

See [external documentation](#).

getViewWhiteSpace(This) -> integer()

Types:

This = *wxStyledTextCtrl()*

See [external documentation](#).

setViewWhiteSpace(This, ViewWS) -> ok

Types:

This = *wxStyledTextCtrl()*

ViewWS = *integer()*

See [external documentation](#).

positionFromPoint(This, Pt) -> integer()

Types:

This = *wxStyledTextCtrl()*

Pt = {*x*::*integer()*, *y*::*integer()*}

See [external documentation](#).

positionFromPointClose(This, X, Y) -> integer()

Types:

This = *wxStyledTextCtrl()*

X = *integer()*

```
Y = integer()
```

See [external documentation](#).

gotoLine(This, Line) -> ok

Types:

```
This = wxStyledTextCtrl()  
Line = integer()
```

See [external documentation](#).

gotoPos(This, Pos) -> ok

Types:

```
This = wxStyledTextCtrl()  
Pos = integer()
```

See [external documentation](#).

setAnchor(This, PosAnchor) -> ok

Types:

```
This = wxStyledTextCtrl()  
PosAnchor = integer()
```

See [external documentation](#).

getCurLine(This) -> Result

Types:

```
Result = {Res::unicode:charlist(), LinePos::integer()}  
This = wxStyledTextCtrl()
```

See [external documentation](#).

getEndStyled(This) -> integer()

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

convertEOLs(This, EolMode) -> ok

Types:

```
This = wxStyledTextCtrl()  
EolMode = integer()
```

See [external documentation](#).

getEOLMode(This) -> integer()

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

wxStyledTextCtrl

setEOLMode(This, EolMode) -> ok

Types:

```
This = wxStyledTextCtrl()  
EolMode = integer()
```

See [external documentation](#).

startStyling(This, Pos, Mask) -> ok

Types:

```
This = wxStyledTextCtrl()  
Pos = integer()  
Mask = integer()
```

See [external documentation](#).

setStyling(This, Length, Style) -> ok

Types:

```
This = wxStyledTextCtrl()  
Length = integer()  
Style = integer()
```

See [external documentation](#).

getBufferedDraw(This) -> boolean()

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

setBufferedDraw(This, Buffered) -> ok

Types:

```
This = wxStyledTextCtrl()  
Buffered = boolean()
```

See [external documentation](#).

setTabWidth(This, TabWidth) -> ok

Types:

```
This = wxStyledTextCtrl()  
TabWidth = integer()
```

See [external documentation](#).

getTabWidth(This) -> integer()

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

`setCodePage(This, CodePage) -> ok`

Types:

```
This = wxStyledTextCtrl()
CodePage = integer()
```

See [external documentation](#).

`markerDefine(This, MarkerNumber, MarkerSymbol) -> ok`

Types:

```
This = wxStyledTextCtrl()
MarkerNumber = integer()
MarkerSymbol = integer()
```

Equivalent to `markerDefine(This, MarkerNumber, MarkerSymbol, [])`.

`markerDefine(This, MarkerNumber, MarkerSymbol, Options:[Option]) -> ok`

Types:

```
This = wxStyledTextCtrl()
MarkerNumber = integer()
MarkerSymbol = integer()
Option = {foreground, wx:wx_colour()} | {background, wx:wx_colour()}
```

See [external documentation](#).

`markerSetForeground(This, MarkerNumber, Fore) -> ok`

Types:

```
This = wxStyledTextCtrl()
MarkerNumber = integer()
Fore = wx:wx_colour()
```

See [external documentation](#).

`markerSetBackground(This, MarkerNumber, Back) -> ok`

Types:

```
This = wxStyledTextCtrl()
MarkerNumber = integer()
Back = wx:wx_colour()
```

See [external documentation](#).

`markerAdd(This, Line, MarkerNumber) -> integer()`

Types:

```
This = wxStyledTextCtrl()
Line = integer()
MarkerNumber = integer()
```

See [external documentation](#).

wxStyledTextCtrl

markerDelete(This, Line, MarkerNumber) -> ok

Types:

```
This = wxStyledTextCtrl()  
Line = integer()  
MarkerNumber = integer()
```

See [external documentation](#).

markerDeleteAll(This, MarkerNumber) -> ok

Types:

```
This = wxStyledTextCtrl()  
MarkerNumber = integer()
```

See [external documentation](#).

markerGet(This, Line) -> integer()

Types:

```
This = wxStyledTextCtrl()  
Line = integer()
```

See [external documentation](#).

markerNext(This, LineStart, MarkerMask) -> integer()

Types:

```
This = wxStyledTextCtrl()  
LineStart = integer()  
MarkerMask = integer()
```

See [external documentation](#).

markerPrevious(This, LineStart, MarkerMask) -> integer()

Types:

```
This = wxStyledTextCtrl()  
LineStart = integer()  
MarkerMask = integer()
```

See [external documentation](#).

markerDefineBitmap(This, MarkerNumber, Bmp) -> ok

Types:

```
This = wxStyledTextCtrl()  
MarkerNumber = integer()  
Bmp = wxBitmap:wxBitmap()
```

See [external documentation](#).

markerAddSet(This, Line, Set) -> ok

Types:

```
This = wxStyledTextCtrl()
```

```
Line = integer()
Set = integer()
```

See [external documentation](#).

markerSetAlpha(This, MarkerNumber, Alpha) -> ok

Types:

```
This = wxStyledTextCtrl()
MarkerNumber = integer()
Alpha = integer()
```

See [external documentation](#).

setMarginType(This, Margin, MarginType) -> ok

Types:

```
This = wxStyledTextCtrl()
Margin = integer()
MarginType = integer()
```

See [external documentation](#).

getMarginType(This, Margin) -> integer()

Types:

```
This = wxStyledTextCtrl()
Margin = integer()
```

See [external documentation](#).

setMarginWidth(This, Margin, PixelWidth) -> ok

Types:

```
This = wxStyledTextCtrl()
Margin = integer()
PixelWidth = integer()
```

See [external documentation](#).

getMarginWidth(This, Margin) -> integer()

Types:

```
This = wxStyledTextCtrl()
Margin = integer()
```

See [external documentation](#).

setMarginMask(This, Margin, Mask) -> ok

Types:

```
This = wxStyledTextCtrl()
Margin = integer()
Mask = integer()
```

See [external documentation](#).

wxStyledTextCtrl

getMarginMask(This, Margin) -> integer()

Types:

```
This = wxStyledTextCtrl()  
Margin = integer()
```

See [external documentation](#).

setMarginSensitive(This, Margin, Sensitive) -> ok

Types:

```
This = wxStyledTextCtrl()  
Margin = integer()  
Sensitive = boolean()
```

See [external documentation](#).

getMarginSensitive(This, Margin) -> boolean()

Types:

```
This = wxStyledTextCtrl()  
Margin = integer()
```

See [external documentation](#).

styleClearAll(This) -> ok

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

styleSetForeground(This, Style, Fore) -> ok

Types:

```
This = wxStyledTextCtrl()  
Style = integer()  
Fore = wx:wx_colour()
```

See [external documentation](#).

styleSetBackground(This, Style, Back) -> ok

Types:

```
This = wxStyledTextCtrl()  
Style = integer()  
Back = wx:wx_colour()
```

See [external documentation](#).

styleSetBold(This, Style, Bold) -> ok

Types:

```
This = wxStyledTextCtrl()  
Style = integer()  
Bold = boolean()
```

See [external documentation](#).

`styleSetItalic(This, Style, Italic) -> ok`

Types:

```
This = wxStyledTextCtrl()  
Style = integer()  
Italic = boolean()
```

See [external documentation](#).

`styleSetSize(This, Style, SizePoints) -> ok`

Types:

```
This = wxStyledTextCtrl()  
Style = integer()  
SizePoints = integer()
```

See [external documentation](#).

`styleSetFaceName(This, Style, FontName) -> ok`

Types:

```
This = wxStyledTextCtrl()  
Style = integer()  
FontName = unicode:chardata()
```

See [external documentation](#).

`styleSetEOLFilled(This, Style, Filled) -> ok`

Types:

```
This = wxStyledTextCtrl()  
Style = integer()  
Filled = boolean()
```

See [external documentation](#).

`styleResetDefault(This) -> ok`

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

`styleSetUnderline(This, Style, Underline) -> ok`

Types:

```
This = wxStyledTextCtrl()  
Style = integer()  
Underline = boolean()
```

See [external documentation](#).

wxStyledTextCtrl

styleSetCase(This, Style, CaseForce) -> ok

Types:

```
This = wxStyledTextCtrl()  
Style = integer()  
CaseForce = integer()
```

See [external documentation](#).

styleSetHotSpot(This, Style, Hotspot) -> ok

Types:

```
This = wxStyledTextCtrl()  
Style = integer()  
Hotspot = boolean()
```

See [external documentation](#).

setSelForeground(This, UseSetting, Fore) -> ok

Types:

```
This = wxStyledTextCtrl()  
UseSetting = boolean()  
Fore = wx:wx_colour()
```

See [external documentation](#).

setSelBackground(This, UseSetting, Back) -> ok

Types:

```
This = wxStyledTextCtrl()  
UseSetting = boolean()  
Back = wx:wx_colour()
```

See [external documentation](#).

getSelAlpha(This) -> integer()

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

setSelAlpha(This, Alpha) -> ok

Types:

```
This = wxStyledTextCtrl()  
Alpha = integer()
```

See [external documentation](#).

setCaretForeground(This, Fore) -> ok

Types:

```
This = wxStyledTextCtrl()  
Fore = wx:wx_colour()
```

See [external documentation](#).

cmdKeyAssign(This, Key, Modifiers, Cmd) -> ok

Types:

```
This = wxStyledTextCtrl()  
Key = integer()  
Modifiers = integer()  
Cmd = integer()
```

See [external documentation](#).

cmdKeyClear(This, Key, Modifiers) -> ok

Types:

```
This = wxStyledTextCtrl()  
Key = integer()  
Modifiers = integer()
```

See [external documentation](#).

cmdKeyClearAll(This) -> ok

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

setStyleBytes(This, Length) -> integer()

Types:

```
This = wxStyledTextCtrl()  
Length = integer()
```

See [external documentation](#).

styleSetVisible(This, Style, Visible) -> ok

Types:

```
This = wxStyledTextCtrl()  
Style = integer()  
Visible = boolean()
```

See [external documentation](#).

getCaretPeriod(This) -> integer()

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

setCaretPeriod(This, PeriodMilliseconds) -> ok

Types:

```
This = wxStyledTextCtrl()
```

wxStyledTextCtrl

PeriodMilliseconds = integer()

See [external documentation](#).

setWordChars(This, Characters) -> ok

Types:

This = *wxStyledTextCtrl()*
Characters = *unicode:chardata()*

See [external documentation](#).

beginUndoAction(This) -> ok

Types:

This = *wxStyledTextCtrl()*

See [external documentation](#).

endUndoAction(This) -> ok

Types:

This = *wxStyledTextCtrl()*

See [external documentation](#).

indicatorSetStyle(This, Indic, Style) -> ok

Types:

This = *wxStyledTextCtrl()*
Indic = integer()
Style = integer()

See [external documentation](#).

indicatorGetStyle(This, Indic) -> integer()

Types:

This = *wxStyledTextCtrl()*
Indic = integer()

See [external documentation](#).

indicatorSetForeground(This, Indic, Fore) -> ok

Types:

This = *wxStyledTextCtrl()*
Indic = integer()
Fore = *wx:wx_colour()*

See [external documentation](#).

indicatorGetForeground(This, Indic) -> *wx:wx_colour4()*

Types:

This = *wxStyledTextCtrl()*
Indic = integer()

See [external documentation](#).

`setWhitespaceForeground(This, UseSetting, Fore) -> ok`

Types:

```
This = wxStyledTextCtrl()  
UseSetting = boolean()  
Fore = wx:wx_colour()
```

See [external documentation](#).

`setWhitespaceBackground(This, UseSetting, Back) -> ok`

Types:

```
This = wxStyledTextCtrl()  
UseSetting = boolean()  
Back = wx:wx_colour()
```

See [external documentation](#).

`getStyleBits(This) -> integer()`

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

`setLineState(This, Line, State) -> ok`

Types:

```
This = wxStyledTextCtrl()  
Line = integer()  
State = integer()
```

See [external documentation](#).

`getLineState(This, Line) -> integer()`

Types:

```
This = wxStyledTextCtrl()  
Line = integer()
```

See [external documentation](#).

`getMaxLineState(This) -> integer()`

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

`getCaretLineVisible(This) -> boolean()`

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

wxStyledTextCtrl

setCaretLineVisible(This, Show) -> ok

Types:

```
This = wxStyledTextCtrl()  
Show = boolean()
```

See [external documentation](#).

getCaretLineBackground(This) -> wx:wx_colour4()

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

setCaretLineBackground(This, Back) -> ok

Types:

```
This = wxStyledTextCtrl()  
Back = wx:wx_colour()
```

See [external documentation](#).

autoCompShow(This, LenEntered, ItemList) -> ok

Types:

```
This = wxStyledTextCtrl()  
LenEntered = integer()  
ItemList = unicode:chardata()
```

See [external documentation](#).

autoCompCancel(This) -> ok

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

autoCompActive(This) -> boolean()

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

autoCompPosStart(This) -> integer()

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

autoCompComplete(This) -> ok

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

autoCompStops(This, CharacterSet) -> ok

Types:

```
This = wxStyledTextCtrl()  
CharacterSet = unicode:chardata()
```

See [external documentation](#).

autoCompSetSeparator(This, SeparatorCharacter) -> ok

Types:

```
This = wxStyledTextCtrl()  
SeparatorCharacter = integer()
```

See [external documentation](#).

autoCompGetSeparator(This) -> integer()

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

autoCompSelect(This, Text) -> ok

Types:

```
This = wxStyledTextCtrl()  
Text = unicode:chardata()
```

See [external documentation](#).

autoCompSetCancelAtStart(This, Cancel) -> ok

Types:

```
This = wxStyledTextCtrl()  
Cancel = boolean()
```

See [external documentation](#).

autoCompGetCancelAtStart(This) -> boolean()

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

autoCompSetFillUps(This, CharacterSet) -> ok

Types:

```
This = wxStyledTextCtrl()  
CharacterSet = unicode:chardata()
```

See [external documentation](#).

autoCompSetChooseSingle(This, ChooseSingle) -> ok

Types:

```
This = wxStyledTextCtrl()
```

wxStyledTextCtrl

`ChooseSingle = boolean()`

See [external documentation](#).

`autoCompGetChooseSingle(This) -> boolean()`

Types:

`This = wxStyledTextCtrl()`

See [external documentation](#).

`autoCompSetIgnoreCase(This, IgnoreCase) -> ok`

Types:

`This = wxStyledTextCtrl()`

`IgnoreCase = boolean()`

See [external documentation](#).

`autoCompGetIgnoreCase(This) -> boolean()`

Types:

`This = wxStyledTextCtrl()`

See [external documentation](#).

`userListShow(This, ListType, ItemList) -> ok`

Types:

`This = wxStyledTextCtrl()`

`ListType = integer()`

`ItemList = unicode:chardata()`

See [external documentation](#).

`autoCompSetAutoHide(This, AutoHide) -> ok`

Types:

`This = wxStyledTextCtrl()`

`AutoHide = boolean()`

See [external documentation](#).

`autoCompGetAutoHide(This) -> boolean()`

Types:

`This = wxStyledTextCtrl()`

See [external documentation](#).

`autoCompSetDropRestOfWord(This, DropRestOfWord) -> ok`

Types:

`This = wxStyledTextCtrl()`

`DropRestOfWord = boolean()`

See [external documentation](#).

autoCompGetDropRestOfWord(This) -> boolean()

Types:

This = *wxStyledTextCtrl()*

See [external documentation](#).

registerImage(This, Type, Bmp) -> ok

Types:

This = *wxStyledTextCtrl()*

Type = *integer()*

Bmp = *wxBitmap:wxBitmap()*

See [external documentation](#).

clearRegisteredImages(This) -> ok

Types:

This = *wxStyledTextCtrl()*

See [external documentation](#).

autoCompGetTypeSeparator(This) -> integer()

Types:

This = *wxStyledTextCtrl()*

See [external documentation](#).

autoCompSetTypeSeparator(This, SeparatorCharacter) -> ok

Types:

This = *wxStyledTextCtrl()*

SeparatorCharacter = *integer()*

See [external documentation](#).

autoCompSetMaxWidth(This, CharacterCount) -> ok

Types:

This = *wxStyledTextCtrl()*

CharacterCount = *integer()*

See [external documentation](#).

autoCompGetMaxWidth(This) -> integer()

Types:

This = *wxStyledTextCtrl()*

See [external documentation](#).

autoCompSetMaxHeight(This, RowCount) -> ok

Types:

This = *wxStyledTextCtrl()*

RowCount = *integer()*

wxStyledTextCtrl

See [external documentation](#).

`autoCompGetMaxHeight(This) -> integer()`

Types:

`This = wxStyledTextCtrl()`

See [external documentation](#).

`setIndent(This, IndentSize) -> ok`

Types:

`This = wxStyledTextCtrl()`

`IndentSize = integer()`

See [external documentation](#).

`getIndent(This) -> integer()`

Types:

`This = wxStyledTextCtrl()`

See [external documentation](#).

`setUseTabs(This, UseTabs) -> ok`

Types:

`This = wxStyledTextCtrl()`

`UseTabs = boolean()`

See [external documentation](#).

`getUseTabs(This) -> boolean()`

Types:

`This = wxStyledTextCtrl()`

See [external documentation](#).

`setLineIndentation(This, Line, IndentSize) -> ok`

Types:

`This = wxStyledTextCtrl()`

`Line = integer()`

`IndentSize = integer()`

See [external documentation](#).

`getLineIndentation(This, Line) -> integer()`

Types:

`This = wxStyledTextCtrl()`

`Line = integer()`

See [external documentation](#).

```
getLineIndentPosition(This, Line) -> integer()
```

Types:

```
  This = wxStyledTextCtrl()
```

```
  Line = integer()
```

See [external documentation](#).

```
getColumn(This, Pos) -> integer()
```

Types:

```
  This = wxStyledTextCtrl()
```

```
  Pos = integer()
```

See [external documentation](#).

```
setUseHorizontalScrollBar(This, Show) -> ok
```

Types:

```
  This = wxStyledTextCtrl()
```

```
  Show = boolean()
```

See [external documentation](#).

```
getUseHorizontalScrollBar(This) -> boolean()
```

Types:

```
  This = wxStyledTextCtrl()
```

See [external documentation](#).

```
setIndentationGuides(This, Show) -> ok
```

Types:

```
  This = wxStyledTextCtrl()
```

```
  Show = boolean()
```

See [external documentation](#).

```
getIndentationGuides(This) -> boolean()
```

Types:

```
  This = wxStyledTextCtrl()
```

See [external documentation](#).

```
setHighlightGuide(This, Column) -> ok
```

Types:

```
  This = wxStyledTextCtrl()
```

```
  Column = integer()
```

See [external documentation](#).

```
getHighlightGuide(This) -> integer()
```

Types:

```
  This = wxStyledTextCtrl()
```

wxStyledTextCtrl

See [external documentation](#).

getLineEndPosition(This, Line) -> integer()

Types:

```
This = wxStyledTextCtrl()  
Line = integer()
```

See [external documentation](#).

getCodePage(This) -> integer()

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

getCaretForeground(This) -> wx:wx_colour4()

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

getReadOnly(This) -> boolean()

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

setCurrentPos(This, Pos) -> ok

Types:

```
This = wxStyledTextCtrl()  
Pos = integer()
```

See [external documentation](#).

setSelectionStart(This, Pos) -> ok

Types:

```
This = wxStyledTextCtrl()  
Pos = integer()
```

See [external documentation](#).

getSelectionStart(This) -> integer()

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

setSelectionEnd(This, Pos) -> ok

Types:

```
This = wxStyledTextCtrl()
```

```
Pos = integer()
```

See **external documentation**.

```
getSelectionEnd(This) -> integer()
```

Types:

```
This = wxStyledTextCtrl()
```

See **external documentation**.

```
setPrintMagnification(This, Magnification) -> ok
```

Types:

```
This = wxStyledTextCtrl()
```

```
Magnification = integer()
```

See **external documentation**.

```
getPrintMagnification(This) -> integer()
```

Types:

```
This = wxStyledTextCtrl()
```

See **external documentation**.

```
setPrintColourMode(This, Mode) -> ok
```

Types:

```
This = wxStyledTextCtrl()
```

```
Mode = integer()
```

See **external documentation**.

```
getPrintColourMode(This) -> integer()
```

Types:

```
This = wxStyledTextCtrl()
```

See **external documentation**.

```
findText(This, MinPos, MaxPos, Text) -> integer()
```

Types:

```
This = wxStyledTextCtrl()
```

```
MinPos = integer()
```

```
MaxPos = integer()
```

```
Text = unicode:chardata()
```

Equivalent to *findText(This, MinPos, MaxPos, Text, [])*.

```
findText(This, MinPos, MaxPos, Text, Options:[Option]) -> integer()
```

Types:

```
This = wxStyledTextCtrl()
```

```
MinPos = integer()
```

```
MaxPos = integer()
```

wxStyledTextCtrl

```
Text = unicode:chardata()
Option = {flags, integer()}
```

See [external documentation](#).

```
formatRange(This, DoDraw, StartPos, EndPos, Draw, Target, RenderRect,
PageRect) -> integer()
```

Types:

```
This = wxStyledTextCtrl()
DoDraw = boolean()
StartPos = integer()
EndPos = integer()
Draw = wxDC:wxDC()
Target = wxDC:wxDC()
RenderRect = {X::integer(), Y::integer(), W::integer(), H::integer()}
PageRect = {X::integer(), Y::integer(), W::integer(), H::integer()}
```

See [external documentation](#).

```
getFirstVisibleLine(This) -> integer()
```

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

```
getLine(This, Line) -> unicode:charlist()
```

Types:

```
This = wxStyledTextCtrl()
Line = integer()
```

See [external documentation](#).

```
getLineCount(This) -> integer()
```

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

```
setMarginLeft(This, PixelWidth) -> ok
```

Types:

```
This = wxStyledTextCtrl()
PixelWidth = integer()
```

See [external documentation](#).

```
getMarginLeft(This) -> integer()
```

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

setMarginRight(This, PixelWidth) -> ok

Types:

```
This = wxStyledTextCtrl()  
PixelWidth = integer()
```

See [external documentation](#).

getMarginRight(This) -> integer()

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

getModify(This) -> boolean()

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

setSelection(This, Start, End) -> ok

Types:

```
This = wxStyledTextCtrl()  
Start = integer()  
End = integer()
```

See [external documentation](#).

getSelectedText(This) -> unicode:charlist()

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

getTextRange(This, StartPos, EndPos) -> unicode:charlist()

Types:

```
This = wxStyledTextCtrl()  
StartPos = integer()  
EndPos = integer()
```

See [external documentation](#).

hideSelection(This, Normal) -> ok

Types:

```
This = wxStyledTextCtrl()  
Normal = boolean()
```

See [external documentation](#).

lineFromPosition(This, Pos) -> integer()

Types:

wxStyledTextCtrl

```
This = wxStyledTextCtrl()  
Pos = integer()
```

See [external documentation](#).

positionFromLine(This, Line) -> integer()

Types:

```
This = wxStyledTextCtrl()  
Line = integer()
```

See [external documentation](#).

lineScroll(This, Columns, Lines) -> ok

Types:

```
This = wxStyledTextCtrl()  
Columns = integer()  
Lines = integer()
```

See [external documentation](#).

ensureCaretVisible(This) -> ok

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

replaceSelection(This, Text) -> ok

Types:

```
This = wxStyledTextCtrl()  
Text = unicode:chardata()
```

See [external documentation](#).

setReadOnly(This, ReadOnly) -> ok

Types:

```
This = wxStyledTextCtrl()  
ReadOnly = boolean()
```

See [external documentation](#).

canPaste(This) -> boolean()

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

canUndo(This) -> boolean()

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

emptyUndoBuffer(This) -> ok

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

undo(This) -> ok

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

cut(This) -> ok

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

copy(This) -> ok

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

paste(This) -> ok

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

clear(This) -> ok

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

setText(This, Text) -> ok

Types:

This = wxStyledTextCtrl()

Text = unicode:chardata()

See [external documentation](#).

getText(This) -> unicode:charlist()

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

getTextLength(This) -> integer()

Types:

wxStyledTextCtrl

This = wxStyledTextCtrl()

See [external documentation](#).

getOvertype(This) -> boolean()

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

setCaretWidth(This, PixelWidth) -> ok

Types:

This = wxStyledTextCtrl()

PixelWidth = integer()

See [external documentation](#).

getCaretWidth(This) -> integer()

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

setTargetStart(This, Pos) -> ok

Types:

This = wxStyledTextCtrl()

Pos = integer()

See [external documentation](#).

getTargetStart(This) -> integer()

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

setTargetEnd(This, Pos) -> ok

Types:

This = wxStyledTextCtrl()

Pos = integer()

See [external documentation](#).

getTargetEnd(This) -> integer()

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

replaceTarget(This, Text) -> integer()

Types:

```
This = wxStyledTextCtrl()
Text = unicode:chardata()
```

See [external documentation](#).

searchInTarget(This, Text) -> integer()

Types:

```
This = wxStyledTextCtrl()
Text = unicode:chardata()
```

See [external documentation](#).

setSearchFlags(This, Flags) -> ok

Types:

```
This = wxStyledTextCtrl()
Flags = integer()
```

See [external documentation](#).

getSearchFlags(This) -> integer()

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

callTipShow(This, Pos, Definition) -> ok

Types:

```
This = wxStyledTextCtrl()
Pos = integer()
Definition = unicode:chardata()
```

See [external documentation](#).

callTipCancel(This) -> ok

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

callTipActive(This) -> boolean()

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

callTipPosAtStart(This) -> integer()

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

wxStyledTextCtrl

callTipSetHighlight(This, Start, End) -> ok

Types:

```
This = wxStyledTextCtrl()  
Start = integer()  
End = integer()
```

See [external documentation](#).

callTipSetBackground(This, Back) -> ok

Types:

```
This = wxStyledTextCtrl()  
Back = wx:wx_colour()
```

See [external documentation](#).

callTipSetForeground(This, Fore) -> ok

Types:

```
This = wxStyledTextCtrl()  
Fore = wx:wx_colour()
```

See [external documentation](#).

callTipSetForegroundHighlight(This, Fore) -> ok

Types:

```
This = wxStyledTextCtrl()  
Fore = wx:wx_colour()
```

See [external documentation](#).

callTipUseStyle(This, TabSize) -> ok

Types:

```
This = wxStyledTextCtrl()  
TabSize = integer()
```

See [external documentation](#).

visibleFromDocLine(This, Line) -> integer()

Types:

```
This = wxStyledTextCtrl()  
Line = integer()
```

See [external documentation](#).

docLineFromVisible(This, LineDisplay) -> integer()

Types:

```
This = wxStyledTextCtrl()  
LineDisplay = integer()
```

See [external documentation](#).

```
wrapCount(This, Line) -> integer()
```

Types:

```
  This = wxStyledTextCtrl()
```

```
  Line = integer()
```

See [external documentation](#).

```
setFoldLevel(This, Line, Level) -> ok
```

Types:

```
  This = wxStyledTextCtrl()
```

```
  Line = integer()
```

```
  Level = integer()
```

See [external documentation](#).

```
getFoldLevel(This, Line) -> integer()
```

Types:

```
  This = wxStyledTextCtrl()
```

```
  Line = integer()
```

See [external documentation](#).

```
getLastChild(This, Line, Level) -> integer()
```

Types:

```
  This = wxStyledTextCtrl()
```

```
  Line = integer()
```

```
  Level = integer()
```

See [external documentation](#).

```
getFoldParent(This, Line) -> integer()
```

Types:

```
  This = wxStyledTextCtrl()
```

```
  Line = integer()
```

See [external documentation](#).

```
showLines(This, LineStart, LineEnd) -> ok
```

Types:

```
  This = wxStyledTextCtrl()
```

```
  LineStart = integer()
```

```
  LineEnd = integer()
```

See [external documentation](#).

```
hideLines(This, LineStart, LineEnd) -> ok
```

Types:

```
  This = wxStyledTextCtrl()
```

```
  LineStart = integer()
```

wxStyledTextCtrl

LineEnd = integer()

See [external documentation](#).

getLineVisible(This, Line) -> boolean()

Types:

This = wxStyledTextCtrl()
Line = integer()

See [external documentation](#).

setFoldExpanded(This, Line, Expanded) -> ok

Types:

This = wxStyledTextCtrl()
Line = integer()
Expanded = boolean()

See [external documentation](#).

getFoldExpanded(This, Line) -> boolean()

Types:

This = wxStyledTextCtrl()
Line = integer()

See [external documentation](#).

toggleFold(This, Line) -> ok

Types:

This = wxStyledTextCtrl()
Line = integer()

See [external documentation](#).

ensureVisible(This, Line) -> ok

Types:

This = wxStyledTextCtrl()
Line = integer()

See [external documentation](#).

setFoldFlags(This, Flags) -> ok

Types:

This = wxStyledTextCtrl()
Flags = integer()

See [external documentation](#).

ensureVisibleEnforcePolicy(This, Line) -> ok

Types:

This = wxStyledTextCtrl()

```
Line = integer()
```

See [external documentation](#).

```
setTabIndents(This, TabIndents) -> ok
```

Types:

```
This = wxStyledTextCtrl()
```

```
TabIndents = boolean()
```

See [external documentation](#).

```
getTabIndents(This) -> boolean()
```

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

```
setBackSpaceUnIndents(This, BsUnIndents) -> ok
```

Types:

```
This = wxStyledTextCtrl()
```

```
BsUnIndents = boolean()
```

See [external documentation](#).

```
getBackSpaceUnIndents(This) -> boolean()
```

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

```
setMouseDwellTime(This, PeriodMilliseconds) -> ok
```

Types:

```
This = wxStyledTextCtrl()
```

```
PeriodMilliseconds = integer()
```

See [external documentation](#).

```
getMouseDwellTime(This) -> integer()
```

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

```
wordStartPosition(This, Pos, OnlyWordCharacters) -> integer()
```

Types:

```
This = wxStyledTextCtrl()
```

```
Pos = integer()
```

```
OnlyWordCharacters = boolean()
```

See [external documentation](#).

wxStyledTextCtrl

wordEndPosition(This, Pos, OnlyWordCharacters) -> integer()

Types:

```
This = wxStyledTextCtrl()  
Pos = integer()  
OnlyWordCharacters = boolean()
```

See [external documentation](#).

setWrapMode(This, Mode) -> ok

Types:

```
This = wxStyledTextCtrl()  
Mode = integer()
```

See [external documentation](#).

getWrapMode(This) -> integer()

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

setWrapVisualFlags(This, WrapVisualFlags) -> ok

Types:

```
This = wxStyledTextCtrl()  
WrapVisualFlags = integer()
```

See [external documentation](#).

getWrapVisualFlags(This) -> integer()

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

setWrapVisualFlagsLocation(This, WrapVisualFlagsLocation) -> ok

Types:

```
This = wxStyledTextCtrl()  
WrapVisualFlagsLocation = integer()
```

See [external documentation](#).

getWrapVisualFlagsLocation(This) -> integer()

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

setWrapStartIndent(This, Indent) -> ok

Types:

```
This = wxStyledTextCtrl()
```

Indent = integer()

See [external documentation](#).

getWrapStartIndent(This) -> integer()

Types:

This = *wxStyledTextCtrl()*

See [external documentation](#).

setLayoutCache(This, Mode) -> ok

Types:

This = *wxStyledTextCtrl()*

Mode = integer()

See [external documentation](#).

getLayoutCache(This) -> integer()

Types:

This = *wxStyledTextCtrl()*

See [external documentation](#).

setScrollWidth(This, PixelWidth) -> ok

Types:

This = *wxStyledTextCtrl()*

PixelWidth = integer()

See [external documentation](#).

getScrollWidth(This) -> integer()

Types:

This = *wxStyledTextCtrl()*

See [external documentation](#).

textWidth(This, Style, Text) -> integer()

Types:

This = *wxStyledTextCtrl()*

Style = integer()

Text = *unicode:chardata()*

See [external documentation](#).

getEndAtLastLine(This) -> boolean()

Types:

This = *wxStyledTextCtrl()*

See [external documentation](#).

wxStyledTextCtrl

textHeight(This, Line) -> integer()

Types:

```
This = wxStyledTextCtrl()  
Line = integer()
```

See [external documentation](#).

setUseVerticalScrollBar(This, Show) -> ok

Types:

```
This = wxStyledTextCtrl()  
Show = boolean()
```

See [external documentation](#).

getUseVerticalScrollBar(This) -> boolean()

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

appendText(This, Text) -> ok

Types:

```
This = wxStyledTextCtrl()  
Text = unicode:chardata()
```

See [external documentation](#).

getTwoPhaseDraw(This) -> boolean()

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

setTwoPhaseDraw(This, TwoPhase) -> ok

Types:

```
This = wxStyledTextCtrl()  
TwoPhase = boolean()
```

See [external documentation](#).

targetFromSelection(This) -> ok

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

linesJoin(This) -> ok

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

linesSplit(This, PixelWidth) -> ok

Types:

```
This = wxStyledTextCtrl()  
PixelWidth = integer()
```

See [external documentation](#).

setFoldMarginColour(This, UseSetting, Back) -> ok

Types:

```
This = wxStyledTextCtrl()  
UseSetting = boolean()  
Back = wx:wx_colour()
```

See [external documentation](#).

setFoldMarginHiColour(This, UseSetting, Fore) -> ok

Types:

```
This = wxStyledTextCtrl()  
UseSetting = boolean()  
Fore = wx:wx_colour()
```

See [external documentation](#).

lineDown(This) -> ok

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

lineDownExtend(This) -> ok

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

lineUp(This) -> ok

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

lineUpExtend(This) -> ok

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

charLeft(This) -> ok

Types:

```
This = wxStyledTextCtrl()
```

wxStyledTextCtrl

See [external documentation](#).

`charLeftExtend(This) -> ok`

Types:

`This = wxStyledTextCtrl()`

See [external documentation](#).

`charRight(This) -> ok`

Types:

`This = wxStyledTextCtrl()`

See [external documentation](#).

`charRightExtend(This) -> ok`

Types:

`This = wxStyledTextCtrl()`

See [external documentation](#).

`wordLeft(This) -> ok`

Types:

`This = wxStyledTextCtrl()`

See [external documentation](#).

`wordLeftExtend(This) -> ok`

Types:

`This = wxStyledTextCtrl()`

See [external documentation](#).

`wordRight(This) -> ok`

Types:

`This = wxStyledTextCtrl()`

See [external documentation](#).

`wordRightExtend(This) -> ok`

Types:

`This = wxStyledTextCtrl()`

See [external documentation](#).

`home(This) -> ok`

Types:

`This = wxStyledTextCtrl()`

See [external documentation](#).

homeExtend(This) -> ok

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

lineEnd(This) -> ok

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

lineEndExtend(This) -> ok

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

documentStart(This) -> ok

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

documentStartExtend(This) -> ok

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

documentEnd(This) -> ok

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

documentEndExtend(This) -> ok

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

pageUp(This) -> ok

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

pageUpExtend(This) -> ok

Types:

This = wxStyledTextCtrl()

wxStyledTextCtrl

See [external documentation](#).

pageDown(This) -> ok

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

pageDownExtend(This) -> ok

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

editToggleOverType(This) -> ok

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

cancel(This) -> ok

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

deleteBack(This) -> ok

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

tab(This) -> ok

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

backTab(This) -> ok

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

newLine(This) -> ok

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

formFeed(This) -> ok

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

vCHome(This) -> ok

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

vCHomeExtend(This) -> ok

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

zoomIn(This) -> ok

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

zoomOut(This) -> ok

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

delWordLeft(This) -> ok

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

delWordRight(This) -> ok

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

lineCut(This) -> ok

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

lineDelete(This) -> ok

Types:

This = wxStyledTextCtrl()

wxStyledTextCtrl

See [external documentation](#).

lineTranspose(This) -> ok

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

lineDuplicate(This) -> ok

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

lowerCase(This) -> ok

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

upperCase(This) -> ok

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

lineScrollDown(This) -> ok

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

lineScrollUp(This) -> ok

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

deleteBackNotLine(This) -> ok

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

homeDisplay(This) -> ok

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

homeDisplayExtend(This) -> ok

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

lineEndDisplay(This) -> ok

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

lineEndDisplayExtend(This) -> ok

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

homeWrapExtend(This) -> ok

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

lineEndWrap(This) -> ok

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

lineEndWrapExtend(This) -> ok

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

vCHomeWrap(This) -> ok

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

vCHomeWrapExtend(This) -> ok

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

lineCopy(This) -> ok

Types:

This = wxStyledTextCtrl()

wxStyledTextCtrl

See [external documentation](#).

moveCaretInsideView(This) -> ok

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

lineLength(This, Line) -> integer()

Types:

This = wxStyledTextCtrl()

Line = integer()

See [external documentation](#).

braceHighlight(This, Pos1, Pos2) -> ok

Types:

This = wxStyledTextCtrl()

Pos1 = integer()

Pos2 = integer()

See [external documentation](#).

braceBadLight(This, Pos) -> ok

Types:

This = wxStyledTextCtrl()

Pos = integer()

See [external documentation](#).

braceMatch(This, Pos) -> integer()

Types:

This = wxStyledTextCtrl()

Pos = integer()

See [external documentation](#).

getViewEOL(This) -> boolean()

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

setViewEOL(This, Visible) -> ok

Types:

This = wxStyledTextCtrl()

Visible = boolean()

See [external documentation](#).

setModEventMask(This, Mask) -> ok

Types:

 This = wxStyledTextCtrl()

 Mask = integer()

See [external documentation](#).

getEdgeColumn(This) -> integer()

Types:

 This = wxStyledTextCtrl()

See [external documentation](#).

setEdgeColumn(This, Column) -> ok

Types:

 This = wxStyledTextCtrl()

 Column = integer()

See [external documentation](#).

setEdgeMode(This, Mode) -> ok

Types:

 This = wxStyledTextCtrl()

 Mode = integer()

See [external documentation](#).

getEdgeMode(This) -> integer()

Types:

 This = wxStyledTextCtrl()

See [external documentation](#).

getEdgeColour(This) -> wx:wx_colour4()

Types:

 This = wxStyledTextCtrl()

See [external documentation](#).

setEdgeColour(This, EdgeColour) -> ok

Types:

 This = wxStyledTextCtrl()

 EdgeColour = wx:wx_colour()

See [external documentation](#).

searchAnchor(This) -> ok

Types:

 This = wxStyledTextCtrl()

See [external documentation](#).

wxStyledTextCtrl

searchNext(This, Flags, Text) -> integer()

Types:

```
This = wxStyledTextCtrl()  
Flags = integer()  
Text = unicode:chardata()
```

See [external documentation](#).

searchPrev(This, Flags, Text) -> integer()

Types:

```
This = wxStyledTextCtrl()  
Flags = integer()  
Text = unicode:chardata()
```

See [external documentation](#).

linesOnScreen(This) -> integer()

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

usePopUp(This, AllowPopUp) -> ok

Types:

```
This = wxStyledTextCtrl()  
AllowPopUp = boolean()
```

See [external documentation](#).

selectionIsRectangle(This) -> boolean()

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

setZoom(This, Zoom) -> ok

Types:

```
This = wxStyledTextCtrl()  
Zoom = integer()
```

See [external documentation](#).

getZoom(This) -> integer()

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

getModEventMask(This) -> integer()

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

```
setSTCFocus(This, Focus) -> ok
```

Types:

```
This = wxStyledTextCtrl()
```

```
Focus = boolean()
```

See [external documentation](#).

```
getSTCFocus(This) -> boolean()
```

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

```
setStatus(This, StatusCode) -> ok
```

Types:

```
This = wxStyledTextCtrl()
```

```
StatusCode = integer()
```

See [external documentation](#).

```
getStatus(This) -> integer()
```

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

```
setMouseDownCaptures(This, Captures) -> ok
```

Types:

```
This = wxStyledTextCtrl()
```

```
Captures = boolean()
```

See [external documentation](#).

```
getMouseDownCaptures(This) -> boolean()
```

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

```
setSTCCursor(This, CursorType) -> ok
```

Types:

```
This = wxStyledTextCtrl()
```

```
CursorType = integer()
```

See [external documentation](#).

wxStyledTextCtrl

getSTCCursor(This) -> integer()

Types:

This = wxStyledTextCtrl()

See **external documentation**.

setControlCharSymbol(This, Symbol) -> ok

Types:

This = wxStyledTextCtrl()
Symbol = integer()

See **external documentation**.

getControlCharSymbol(This) -> integer()

Types:

This = wxStyledTextCtrl()

See **external documentation**.

wordPartLeft(This) -> ok

Types:

This = wxStyledTextCtrl()

See **external documentation**.

wordPartLeftExtend(This) -> ok

Types:

This = wxStyledTextCtrl()

See **external documentation**.

wordPartRight(This) -> ok

Types:

This = wxStyledTextCtrl()

See **external documentation**.

wordPartRightExtend(This) -> ok

Types:

This = wxStyledTextCtrl()

See **external documentation**.

setVisiblePolicy(This, VisiblePolicy, VisibleSlop) -> ok

Types:

This = wxStyledTextCtrl()
VisiblePolicy = integer()
VisibleSlop = integer()

See **external documentation**.

delLineLeft(This) -> ok

Types:

This = *wxStyledTextCtrl()*

See **external documentation**.

delLineRight(This) -> ok

Types:

This = *wxStyledTextCtrl()*

See **external documentation**.

getXOffset(This) -> integer()

Types:

This = *wxStyledTextCtrl()*

See **external documentation**.

chooseCaretX(This) -> ok

Types:

This = *wxStyledTextCtrl()*

See **external documentation**.

setXCaretPolicy(This, CaretPolicy, CaretSlop) -> ok

Types:

This = *wxStyledTextCtrl()*

CaretPolicy = *integer()*

CaretSlop = *integer()*

See **external documentation**.

setYCaretPolicy(This, CaretPolicy, CaretSlop) -> ok

Types:

This = *wxStyledTextCtrl()*

CaretPolicy = *integer()*

CaretSlop = *integer()*

See **external documentation**.

getPrintWrapMode(This) -> integer()

Types:

This = *wxStyledTextCtrl()*

See **external documentation**.

setHotspotActiveForeground(This, UseSetting, Fore) -> ok

Types:

This = *wxStyledTextCtrl()*

UseSetting = *boolean()*

wxStyledTextCtrl

Fore = *wx:wx_colour()*

See [external documentation](#).

setHotspotActiveBackground(*This*, *UseSetting*, *Back*) -> ok

Types:

```
This = wxStyledTextCtrl()  
UseSetting = boolean()  
Back = wx:wx_colour()
```

See [external documentation](#).

setHotspotActiveUnderline(*This*, *Underline*) -> ok

Types:

```
This = wxStyledTextCtrl()  
Underline = boolean()
```

See [external documentation](#).

setHotspotSingleLine(*This*, *SingleLine*) -> ok

Types:

```
This = wxStyledTextCtrl()  
SingleLine = boolean()
```

See [external documentation](#).

paraDownExtend(*This*) -> ok

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

paraUp(*This*) -> ok

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

paraUpExtend(*This*) -> ok

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

positionBefore(*This*, *Pos*) -> integer()

Types:

```
This = wxStyledTextCtrl()  
Pos = integer()
```

See [external documentation](#).

positionAfter(This, Pos) -> integer()

Types:

This = *wxStyledTextCtrl()*

Pos = *integer()*

See **external documentation**.

copyRange(This, Start, End) -> ok

Types:

This = *wxStyledTextCtrl()*

Start = *integer()*

End = *integer()*

See **external documentation**.

copyText(This, Length, Text) -> ok

Types:

This = *wxStyledTextCtrl()*

Length = *integer()*

Text = *unicode:chardata()*

See **external documentation**.

setSelectionMode(This, Mode) -> ok

Types:

This = *wxStyledTextCtrl()*

Mode = *integer()*

See **external documentation**.

getSelectionMode(This) -> integer()

Types:

This = *wxStyledTextCtrl()*

See **external documentation**.

lineDownRectExtend(This) -> ok

Types:

This = *wxStyledTextCtrl()*

See **external documentation**.

lineUpRectExtend(This) -> ok

Types:

This = *wxStyledTextCtrl()*

See **external documentation**.

charLeftRectExtend(This) -> ok

Types:

wxStyledTextCtrl

This = wxStyledTextCtrl()

See [external documentation](#).

charRightRectExtend(This) -> ok

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

homeRectExtend(This) -> ok

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

vCHomeRectExtend(This) -> ok

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

lineEndRectExtend(This) -> ok

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

pageUpRectExtend(This) -> ok

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

pageDownRectExtend(This) -> ok

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

stutteredPageUp(This) -> ok

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

stutteredPageUpExtend(This) -> ok

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

stutteredPageDown(This) -> ok

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

stutteredPageDownExtend(This) -> ok

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

wordLeftEnd(This) -> ok

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

wordLeftEndExtend(This) -> ok

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

wordRightEnd(This) -> ok

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

wordRightEndExtend(This) -> ok

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

setWhitespaceChars(This, Characters) -> ok

Types:

This = wxStyledTextCtrl()

Characters = unicode:chardata()

See [external documentation](#).

setCharsDefault(This) -> ok

Types:

This = wxStyledTextCtrl()

See [external documentation](#).

autoCompGetCurrent(This) -> integer()

Types:

wxStyledTextCtrl

This = wxStyledTextCtrl()

See **external documentation**.

allocate(This, Bytes) -> ok

Types:

This = wxStyledTextCtrl()

Bytes = integer()

See **external documentation**.

findColumn(This, Line, Column) -> integer()

Types:

This = wxStyledTextCtrl()

Line = integer()

Column = integer()

See **external documentation**.

getCaretSticky(This) -> boolean()

Types:

This = wxStyledTextCtrl()

See **external documentation**.

setCaretSticky(This, UseCaretStickyBehaviour) -> ok

Types:

This = wxStyledTextCtrl()

UseCaretStickyBehaviour = boolean()

See **external documentation**.

toggleCaretSticky(This) -> ok

Types:

This = wxStyledTextCtrl()

See **external documentation**.

setPasteConvertEndings(This, Convert) -> ok

Types:

This = wxStyledTextCtrl()

Convert = boolean()

See **external documentation**.

getPasteConvertEndings(This) -> boolean()

Types:

This = wxStyledTextCtrl()

See **external documentation**.

selectionDuplicate(This) -> ok

Types:

This = *wxStyledTextCtrl()*

See [external documentation](#).

setCaretLineBackAlpha(This, Alpha) -> ok

Types:

This = *wxStyledTextCtrl()*

Alpha = *integer()*

See [external documentation](#).

getCaretLineBackAlpha(This) -> *integer()*

Types:

This = *wxStyledTextCtrl()*

See [external documentation](#).

startRecord(This) -> ok

Types:

This = *wxStyledTextCtrl()*

See [external documentation](#).

stopRecord(This) -> ok

Types:

This = *wxStyledTextCtrl()*

See [external documentation](#).

setLexer(This, Lexer) -> ok

Types:

This = *wxStyledTextCtrl()*

Lexer = *integer()*

See [external documentation](#).

getLexer(This) -> *integer()*

Types:

This = *wxStyledTextCtrl()*

See [external documentation](#).

colourise(This, Start, End) -> ok

Types:

This = *wxStyledTextCtrl()*

Start = *integer()*

End = *integer()*

See [external documentation](#).

wxStyledTextCtrl

setProperty(This, Key, Value) -> ok

Types:

```
This = wxStyledTextCtrl()  
Key = unicode:chardata()  
Value = unicode:chardata()
```

See [external documentation](#).

setKeyWords(This, KeywordSet, KeyWords) -> ok

Types:

```
This = wxStyledTextCtrl()  
KeywordSet = integer()  
KeyWords = unicode:chardata()
```

See [external documentation](#).

setLexerLanguage(This, Language) -> ok

Types:

```
This = wxStyledTextCtrl()  
Language = unicode:chardata()
```

See [external documentation](#).

getProperty(This, Key) -> unicode:charlist()

Types:

```
This = wxStyledTextCtrl()  
Key = unicode:chardata()
```

See [external documentation](#).

getStyleBitsNeeded(This) -> integer()

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

getCurrentLine(This) -> integer()

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

styleSetSpec(This, StyleNum, Spec) -> ok

Types:

```
This = wxStyledTextCtrl()  
StyleNum = integer()  
Spec = unicode:chardata()
```

See [external documentation](#).

```
styleSetFont(This, StyleNum, Font) -> ok
```

Types:

```
This = wxStyledTextCtrl()
StyleNum = integer()
Font = wxFont:wxFont()
```

See [external documentation](#).

```
styleSetFontAttr(This, StyleNum, Size, FaceName, Bold, Italic, Underline) ->
ok
```

Types:

```
This = wxStyledTextCtrl()
StyleNum = integer()
Size = integer()
FaceName = unicode:chardata()
Bold = boolean()
Italic = boolean()
Underline = boolean()
```

Equivalent to `styleSetFontAttr(This, StyleNum, Size, FaceName, Bold, Italic, Underline, []).`

```
styleSetFontAttr(This, StyleNum, Size, FaceName, Bold, Italic, Underline,
Options:[Option]) -> ok
```

Types:

```
This = wxStyledTextCtrl()
StyleNum = integer()
Size = integer()
FaceName = unicode:chardata()
Bold = boolean()
Italic = boolean()
Underline = boolean()
Option = {encoding, wx:wx_enum()}
```

See [external documentation](#).

Encoding	=	?wxFONTENCODING_SYSTEM		?wxFONTENCODING_DEFAULT		?						
wxFONTENCODING_ISO8859_1		?wxFONTENCODING_ISO8859_2		?wxFONTENCODING_ISO8859_3		?						
wxFONTENCODING_ISO8859_4		?wxFONTENCODING_ISO8859_5		?wxFONTENCODING_ISO8859_6		?						
wxFONTENCODING_ISO8859_7		?wxFONTENCODING_ISO8859_8		?wxFONTENCODING_ISO8859_9		?						
wxFONTENCODING_ISO8859_10		?wxFONTENCODING_ISO8859_11		?wxFONTENCODING_ISO8859_12		?						
wxFONTENCODING_ISO8859_13		?wxFONTENCODING_ISO8859_14		?wxFONTENCODING_ISO8859_15		?						
wxFONTENCODING_ISO8859_MAX		?wxFONTENCODING_KOI8		?wxFONTENCODING_KOI8_U		?						
wxFONTENCODING_ALTERNATIVE		?wxFONTENCODING_BULGARIAN		?wxFONTENCODING_CP437		?wxFONTENCODING_CP850		?wxFONTENCODING_CP852		?		
wxFONTENCODING_CP855		?wxFONTENCODING_CP866		?wxFONTENCODING_CP874		?wxFONTENCODING_CP932		?wxFONTENCODING_CP949		?		
wxFONTENCODING_CP950		?wxFONTENCODING_CP1250		?wxFONTENCODING_CP1251		?wxFONTENCODING_CP1252		?wxFONTENCODING_CP1253		?wxFONTENCODING_CP1254		?
wxFONTENCODING_CP1255		?wxFONTENCODING_CP1256		?wxFONTENCODING_CP1257		?wxFONTENCODING_CP12_MAX		?wxFONTENCODING_UTF7		?wxFONTENCODING_UTF8		?

wxStyledTextCtrl

```
wxFONTENCODING_EUC_JP | ?wxFONTENCODING_UTF16BE | ?wxFONTENCODING_UTF16LE | ?
wxFONTENCODING_UTF32BE | ?wxFONTENCODING_UTF32LE | ?wxFONTENCODING_MACROMAN
| ?wxFONTENCODING_MACJAPANESE | ?wxFONTENCODING_MACCHINESETRAD | ?
wxFONTENCODING_MACKOREAN | ?wxFONTENCODING_MACARABIC | ?
wxFONTENCODING_MACBREW | ?wxFONTENCODING_MACGREEK | ?
wxFONTENCODING_MACCYRILLIC | ?wxFONTENCODING_MACDEVANAGARI | ?
wxFONTENCODING_MACGURMUKHI | ?wxFONTENCODING_MACGUJARATI | ?
wxFONTENCODING_MACORIYA | ?wxFONTENCODING_MACBENGALI | ?
wxFONTENCODING_MACTAMIL | ?wxFONTENCODING_MACTELUGU | ?
wxFONTENCODING_MACKANNADA | ?wxFONTENCODING_MACMALAJALAM | ?
wxFONTENCODING_MACSINHALESE | ?wxFONTENCODING_MACBURMESE | ?
wxFONTENCODING_MACKHMER | ?wxFONTENCODING_MACTHAI | ?
wxFONTENCODING_MACLAOTIAN | ?wxFONTENCODING_MACGEORGIAN | ?
wxFONTENCODING_MACARMENIAN | ?wxFONTENCODING_MACCHINESESIMP | ?
wxFONTENCODING_MACTIBETAN | ?wxFONTENCODING_MACMONGOLIAN | ?
wxFONTENCODING_MACETHIOPIC | ?wxFONTENCODING_MACCENTRAEUR | ?
wxFONTENCODING_MACVIATNAMESE | ?wxFONTENCODING_MACARABICEXT | ?
wxFONTENCODING_MACSYMBOL | ?wxFONTENCODING_MACDINGBATS | ?
wxFONTENCODING_MACTURKISH | ?wxFONTENCODING_MACCROATIAN | ?
wxFONTENCODING_MACICELANDIC | ?wxFONTENCODING_MACROMANIAN | ?
wxFONTENCODING_MACCELTIC | ?wxFONTENCODING_MACGAELIC | ?
wxFONTENCODING_MACKEYBOARD | ?wxFONTENCODING_MAX | ?wxFONTENCODING_MACMIN
| ?wxFONTENCODING_MACMAX | ?wxFONTENCODING_UTF16 | ?wxFONTENCODING_UTF32 | ?
wxFONTENCODING_UNICODE | ?wxFONTENCODING_GB2312 | ?wxFONTENCODING_BIG5 | ?
wxFONTENCODING_SHIFT_JIS
```

styleSetCharacterSet(This, Style, CharacterSet) -> ok

Types:

```
This = wxStyledTextCtrl()
Style = integer()
CharacterSet = integer()
```

See [external documentation](#).

styleSetFontEncoding(This, Style, Encoding) -> ok

Types:

```
This = wxStyledTextCtrl()
Style = integer()
Encoding = wx:wx_enum()
```

See [external documentation](#).

```
Encoding = ?wxFONTENCODING_SYSTEM | ?wxFONTENCODING_DEFAULT | ?
wxFONTENCODING_ISO8859_1 | ?wxFONTENCODING_ISO8859_2 | ?wxFONTENCODING_ISO8859_3 | ?
wxFONTENCODING_ISO8859_4 | ?wxFONTENCODING_ISO8859_5 | ?wxFONTENCODING_ISO8859_6 | ?
wxFONTENCODING_ISO8859_7 | ?wxFONTENCODING_ISO8859_8 | ?wxFONTENCODING_ISO8859_9 | ?
wxFONTENCODING_ISO8859_10 | ?wxFONTENCODING_ISO8859_11 | ?wxFONTENCODING_ISO8859_12
| ?wxFONTENCODING_ISO8859_13 | ?wxFONTENCODING_ISO8859_14 | ?wxFONTENCODING_ISO8859_15
| ?wxFONTENCODING_ISO8859_MAX | ?wxFONTENCODING_KOI8 | ?wxFONTENCODING_KOI8_U
| ?wxFONTENCODING_ALTERNATIVE | ?wxFONTENCODING_BULGARIAN | ?
wxFONTENCODING_CP437 | ?wxFONTENCODING_CP850 | ?wxFONTENCODING_CP852 | ?
wxFONTENCODING_CP855 | ?wxFONTENCODING_CP866 | ?wxFONTENCODING_CP874 | ?
```

```

wxFONTENCODING_CP932 | ?wxFONTENCODING_CP936 | ?wxFONTENCODING_CP949 | ?
wxFONTENCODING_CP950 | ?wxFONTENCODING_CP1250 | ?wxFONTENCODING_CP1251 | ?
wxFONTENCODING_CP1252 | ?wxFONTENCODING_CP1253 | ?wxFONTENCODING_CP1254 | ?
wxFONTENCODING_CP1255 | ?wxFONTENCODING_CP1256 | ?wxFONTENCODING_CP1257 | ?
wxFONTENCODING_CP12_MAX | ?wxFONTENCODING_UTF7 | ?wxFONTENCODING_UTF8 | ?
wxFONTENCODING_EUC_JP | ?wxFONTENCODING_UTF16BE | ?wxFONTENCODING_UTF16LE | ?
wxFONTENCODING_UTF32BE | ?wxFONTENCODING_UTF32LE | ?wxFONTENCODING_MACROMAN
| ?wxFONTENCODING_MACJAPANESE | ?wxFONTENCODING_MACCHINESETRAD | ?
wxFONTENCODING_MACKOREAN | ?wxFONTENCODING_MACARABIC | ?
wxFONTENCODING_MACBREW | ?wxFONTENCODING_MACGREEK | ?
wxFONTENCODING_MACCYRILLIC | ?wxFONTENCODING_MACDEVANAGARI | ?
wxFONTENCODING_MACGURMUKHI | ?wxFONTENCODING_MACGUJARATI | ?
wxFONTENCODING_MACORIYA | ?wxFONTENCODING_MACBENGALI | ?
wxFONTENCODING_MACTAMIL | ?wxFONTENCODING_MACTELUGU | ?
wxFONTENCODING_MACKANNADA | ?wxFONTENCODING_MACMALAJALAM | ?
wxFONTENCODING_MACSINHALESE | ?wxFONTENCODING_MACBURMESE | ?
wxFONTENCODING_MACKHMER | ?wxFONTENCODING_MACTHAI | ?
wxFONTENCODING_MACLAOTIAN | ?wxFONTENCODING_MACGEORGIAN | ?
wxFONTENCODING_MACARMENIAN | ?wxFONTENCODING_MACCHINESESIMP | ?
wxFONTENCODING_MACTIBETAN | ?wxFONTENCODING_MACMONGOLIAN | ?
wxFONTENCODING_MACETHIOPIC | ?wxFONTENCODING_MACCENTRAEUR | ?
wxFONTENCODING_MACVIATNAMESE | ?wxFONTENCODING_MACARABICEXT | ?
wxFONTENCODING_MACSYMBOL | ?wxFONTENCODING_MACDINGBATS | ?
wxFONTENCODING_MACTURKISH | ?wxFONTENCODING_MACCROATIAN | ?
wxFONTENCODING_MACICELANDIC | ?wxFONTENCODING_MACROMANIAN | ?
wxFONTENCODING_MACCELTIC | ?wxFONTENCODING_MACGAELIC | ?
wxFONTENCODING_MACKEYBOARD | ?wxFONTENCODING_MAX | ?wxFONTENCODING_MACMIN | ?
?wxFONTENCODING_MACMAX | ?wxFONTENCODING_UTF16 | ?wxFONTENCODING_UTF32 | ?
wxFONTENCODING_UNICODE | ?wxFONTENCODING_GB2312 | ?wxFONTENCODING_BIG5 | ?
wxFONTENCODING_SHIFT_JIS

```

cmdKeyExecute(This, Cmd) -> ok

Types:

```

This = wxStyledTextCtrl()
Cmd = integer()

```

See [external documentation](#).

setMargins(This, Left, Right) -> ok

Types:

```

This = wxStyledTextCtrl()
Left = integer()
Right = integer()

```

See [external documentation](#).

getSelection(This) -> {StartPos::integer(), EndPos::integer()}

Types:

```

This = wxStyledTextCtrl()

```

See [external documentation](#).

wxStyledTextCtrl

pointFromPosition(This, Pos) -> {X::integer(), Y::integer()}
Types:

```
This = wxStyledTextCtrl()  
Pos = integer()
```

See [external documentation](#).

scrollToLine(This, Line) -> ok

Types:

```
This = wxStyledTextCtrl()  
Line = integer()
```

See [external documentation](#).

scrollToColumn(This, Column) -> ok

Types:

```
This = wxStyledTextCtrl()  
Column = integer()
```

See [external documentation](#).

setVScrollBar(This, Bar) -> ok

Types:

```
This = wxStyledTextCtrl()  
Bar = wxScrollBar:wxScrollBar()
```

See [external documentation](#).

setHScrollBar(This, Bar) -> ok

Types:

```
This = wxStyledTextCtrl()  
Bar = wxScrollBar:wxScrollBar()
```

See [external documentation](#).

getLastKeydownProcessed(This) -> boolean()

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

setLastKeydownProcessed(This, Val) -> ok

Types:

```
This = wxStyledTextCtrl()  
Val = boolean()
```

See [external documentation](#).

saveFile(This, Filename) -> boolean()

Types:

```
This = wxStyledTextCtrl()
Filename = unicode:chardata()
```

See [external documentation](#).

loadFile(This, Filename) -> boolean()

Types:

```
This = wxStyledTextCtrl()
Filename = unicode:chardata()
```

See [external documentation](#).

doDragOver(This, X, Y, Def) -> wx:wx_enum()

Types:

```
This = wxStyledTextCtrl()
X = integer()
Y = integer()
Def = wx:wx_enum()
```

See [external documentation](#).

Def = ?wxDragError | ?wxDragNone | ?wxDragCopy | ?wxDragMove | ?wxDragLink | ?wxDragCancel

Res = ?wxDragError | ?wxDragNone | ?wxDragCopy | ?wxDragMove | ?wxDragLink | ?wxDragCancel

doDropText(This, X, Y, Data) -> boolean()

Types:

```
This = wxStyledTextCtrl()
X = integer()
Y = integer()
Data = unicode:chardata()
```

See [external documentation](#).

getUseAntiAliasing(This) -> boolean()

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

addTextRaw(This, Text) -> ok

Types:

```
This = wxStyledTextCtrl()
Text = binary()
```

See [external documentation](#).

insertTextRaw(This, Pos, Text) -> ok

Types:

```
This = wxStyledTextCtrl()
Pos = integer()
```

wxStyledTextCtrl

Text = binary()

See [external documentation](#).

getCurLineRaw(This) -> Result

Types:

```
Result = {Res:::binary(), LinePos:::integer()}

This = wxStyledTextCtrl()
```

See [external documentation](#).

getLineRaw(This, Line) -> binary()

Types:

```
This = wxStyledTextCtrl()

Line = integer()
```

See [external documentation](#).

getSelectedTextRaw(This) -> binary()

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

getTextRangeRaw(This, StartPos, EndPos) -> binary()

Types:

```
This = wxStyledTextCtrl()

StartPos = integer()

EndPos = integer()
```

See [external documentation](#).

setTextRaw(This, Text) -> ok

Types:

```
This = wxStyledTextCtrl()

Text = binary()
```

See [external documentation](#).

getTextRaw(This) -> binary()

Types:

```
This = wxStyledTextCtrl()
```

See [external documentation](#).

appendTextRaw(This, Text) -> ok

Types:

```
This = wxStyledTextCtrl()

Text = binary()
```

See [external documentation](#).

```
destroy(This::wxStyledTextCtrl()) -> ok
```

Destroys this object, do not use object again

wxStyledTextEvent

Erlang module

See external documentation: **wxStyledTextEvent**.

Use *wxEvtHandler:connect/3* with EventType:

```
stc_change,      stc_styleneeded,      stc_charadded,      stc_savepointreached,      stc_savepointleft,  
stc_romodifyattempt,  stc_key,  stc_doubleclick,  stc_updateui,  stc_modified,  stc_makrorecord,  
stc_marginclick,  stc_needshown,  stc_painted,  stc_userlistselection,  stc_uridropped,  stc_dwellstart,  
stc_dwellend,    stc_start_drag,   stc_drag_over,   stc_do_drop,   stc_zoom,    stc_hotspot_click,  
stc_hotspot_dclick, stc_calltip_click, stc_autocomp_selection
```

See also the message variant `#wxStyledText{}` event record type.

This class is derived (and can use functions) from:

wxCommandEvent

wxEvtHandler

DATA TYPES

`wxStyledTextEvent()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`getPosition(This) -> integer()`

Types:

```
This = wxStyledTextEvent()
```

See **external documentation**.

`getKey(This) -> integer()`

Types:

```
This = wxStyledTextEvent()
```

See **external documentation**.

`getModifiers(This) -> integer()`

Types:

```
This = wxStyledTextEvent()
```

See **external documentation**.

`getModificationType(This) -> integer()`

Types:

```
This = wxStyledTextEvent()
```

See **external documentation**.

getText(This) -> unicode:charlist()

Types:

This = wxStyledTextEvent()

See **external documentation**.

getLength(This) -> integer()

Types:

This = wxStyledTextEvent()

See **external documentation**.

getLinesAdded(This) -> integer()

Types:

This = wxStyledTextEvent()

See **external documentation**.

getLine(This) -> integer()

Types:

This = wxStyledTextEvent()

See **external documentation**.

getFoldLevelNow(This) -> integer()

Types:

This = wxStyledTextEvent()

See **external documentation**.

getFoldLevelPrev(This) -> integer()

Types:

This = wxStyledTextEvent()

See **external documentation**.

getMargin(This) -> integer()

Types:

This = wxStyledTextEvent()

See **external documentation**.

getMessage(This) -> integer()

Types:

This = wxStyledTextEvent()

See **external documentation**.

getWParam(This) -> integer()

Types:

This = wxStyledTextEvent()

wxStyledTextEvent

See [external documentation](#).

`getLParam(This) -> integer()`

Types:

`This = wxStyledTextEvent()`

See [external documentation](#).

`getListType(This) -> integer()`

Types:

`This = wxStyledTextEvent()`

See [external documentation](#).

`getX(This) -> integer()`

Types:

`This = wxStyledTextEvent()`

See [external documentation](#).

`getY(This) -> integer()`

Types:

`This = wxStyledTextEvent()`

See [external documentation](#).

`getDragText(This) -> unicode:charlist()`

Types:

`This = wxStyledTextEvent()`

See [external documentation](#).

`getDragAllowMove(This) -> boolean()`

Types:

`This = wxStyledTextEvent()`

See [external documentation](#).

`getDragResult(This) -> wx:wx_enum()`

Types:

`This = wxStyledTextEvent()`

See [external documentation](#).

Res = ?wxDragError | ?wxDragNone | ?wxDragCopy | ?wxDragMove | ?wxDragLink | ?wxDragCancel

`getShift(This) -> boolean()`

Types:

`This = wxStyledTextEvent()`

See [external documentation](#).

getControl(This) -> boolean()

Types:

This = wxStyledTextEvent()

See [external documentation](#).

getAlt(This) -> boolean()

Types:

This = wxStyledTextEvent()

See [external documentation](#).

wxSysColourChangedEvent

Erlang module

See external documentation: **wxSysColourChangedEvent**.

Use *wxEvtHandler:connect/3* with EventType:

sys_colour_changed

See also the message variant *#wxSysColourChanged{}* event record type.

This class is derived (and can use functions) from:

wxEvent

DATA TYPES

`wxSysColourChangedEvent()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

wxSystemOptions

Erlang module

See external documentation: **wxSystemOptions**.

DATA TYPES

`wxSystemOptions()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`getOption(Name) -> unicode:charlist()`

Types:

`Name = unicode:chardata()`

See **external documentation**.

`getOptionInt(Name) -> integer()`

Types:

`Name = unicode:chardata()`

See **external documentation**.

`hasOption(Name) -> boolean()`

Types:

`Name = unicode:chardata()`

See **external documentation**.

`isFalse(Name) -> boolean()`

Types:

`Name = unicode:chardata()`

See **external documentation**.

`setOption(Name, Value) -> ok`

Types:

`Name = unicode:chardata()`

`Value = integer()`

See **external documentation**.

Also:

`setOption(Name, Value) -> 'ok' when
Name::unicode:chardata(), Value::unicode:chardata().`

wxSystemSettings

Erlang module

See external documentation: **wxSystemSettings**.

DATA TYPES

`wxSystemSettings()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`getColour(Index) -> wx:wx_colour4()`

Types:

`Index = wx:wx_enum()`

See [external documentation](#).

Index = ?wxSYS_COLOUR_SCROLLBAR | ?wxSYS_COLOUR_BACKGROUND | ?
wxSYS_COLOUR_DESKTOP | ?wxSYS_COLOUR_ACTIVECAPTION | ?
wxSYS_COLOUR_INACTIVECAPTION | ?wxSYS_COLOUR_MENU | ?wxSYS_COLOUR_WINDOW | ?
wxSYS_COLOUR_WINDOWFRAME | ?wxSYS_COLOUR_MENUTEXT | ?wxSYS_COLOUR_WINDOWTEXT
| ?wxSYS_COLOUR_CAPTIONTEXT | ?wxSYS_COLOUR_ACTIVEBORDER | ?
wxSYS_COLOUR_INACTIVEBORDER | ?wxSYS_COLOUR_APPWORKSPACE | ?
wxSYS_COLOUR_HIGHLIGHT | ?wxSYS_COLOUR_HIGHLIGHTTEXT | ?wxSYS_COLOUR_BTNFACE
| ?wxSYS_COLOUR_3DFACE | ?wxSYS_COLOUR_BTNSHADOW | ?wxSYS_COLOUR_3DSHADOW | ?
wxSYS_COLOUR_GRAYTEXT | ?wxSYS_COLOUR_BTNTEXT | ?
wxSYS_COLOUR_INACTIVECAPTIONTEXT | ?wxSYS_COLOUR_BTNHIGHLIGHT | ?
wxSYS_COLOUR_BTNHILIGHT | ?wxSYS_COLOUR_3DHIGHLIGHT | ?wxSYS_COLOUR_3DHILIGHT
| ?wxSYS_COLOUR_3DDKSHADOW | ?wxSYS_COLOUR_3DLIGHT | ?wxSYS_COLOUR_INFOTEXT
| ?wxSYS_COLOUR_INFOBK | ?wxSYS_COLOUR_LISTBOX | ?wxSYS_COLOUR_HOTLIGHT | ?
wxSYS_COLOUR_GRADIENTACTIVECAPTION | ?wxSYS_COLOUR_GRADIENTINACTIVECAPTION | ?
wxSYS_COLOUR_MENUHILIGHT | ?wxSYS_COLOUR_MENUBAR | ?wxSYS_COLOUR_LISTBOXTTEXT | ?
wxSYS_COLOUR_LISTBOXHIGHLIGHTTEXT | ?wxSYS_COLOUR_MAX

`getFont(Index) -> wxFont:wxFont()`

Types:

`Index = wx:wx_enum()`

See [external documentation](#).

Index = ?wxSYS_OEM_FIXED_FONT | ?wxSYS_ANSI_FIXED_FONT | ?wxSYS_ANSI_VAR_FONT
| ?wxSYS_SYSTEM_FONT | ?wxSYS_DEVICE_DEFAULT_FONT | ?wxSYS_DEFAULT_PALETTE | ?
wxSYS_SYSTEM_FIXED_FONT | ?wxSYS_DEFAULT_GUI_FONT | ?wxSYS_ICONTITLE_FONT

`getMetric(Index) -> integer()`

Types:

`Index = wx:wx_enum()`

Equivalent to `getMetric(Index, [])`.

```
getMetric(Index, Options::[Option]) -> integer()
```

Types:

```
Index = wx:wx_enum()
Option = {win, wxWindow:wxWindow()}
```

See [external documentation](#).

```
Index = ?wxSYS_MOUSE_BUTTONS | ?wxSYS_BORDER_X | ?wxSYS_BORDER_Y | ?wxSYS_CURSOR_X
| ?wxSYS_CURSOR_Y | ?wxSYS_DCLICK_X | ?wxSYS_DCLICK_Y | ?wxSYS_DRAG_X | ?wxSYS_DRAG_Y
| ?wxSYS_EDGE_X | ?wxSYS_EDGE_Y | ?wxSYS_HSCROLL_ARROW_X | ?wxSYS_HSCROLL_ARROW_Y
| ?wxSYS_HTHUMB_X | ?wxSYS_ICON_X | ?wxSYS_ICON_Y | ?wxSYS_ICONSPACING_X | ?
wxSYS_ICONSPACING_Y | ?wxSYS_WINDOWMIN_X | ?wxSYS_WINDOWMIN_Y | ?wxSYS_SCREEN_X
| ?wxSYS_SCREEN_Y | ?wxSYS_FRAMESIZE_X | ?wxSYS_FRAMESIZE_Y | ?wxSYS_SMALLICON_X | ?
wxSYS_SMALLICON_Y | ?wxSYS_HSCROLL_Y | ?wxSYS_VSCROLL_X | ?wxSYS_VSCROLL_ARROW_X
| ?wxSYS_VSCROLL_ARROW_Y | ?wxSYS_VTHUMB_Y | ?wxSYS_CAPTION_Y | ?wxSYS_MENU_Y
| ?wxSYS_NETWORK_PRESENT | ?wxSYS_PENWINDOWS_PRESENT | ?wxSYS_SHOW_SOUNDS | ?
wxSYS_SWAP_BUTTONS
```

```
getScreenType() -> wx:wx_enum()
```

See [external documentation](#).

```
Res = ?wxSYS_SCREEN_NONE | ?wxSYS_SCREEN_TINY | ?wxSYS_SCREEN_PDA | ?
wxSYS_SCREEN_SMALL | ?wxSYS_SCREEN_DESKTOP
```

wxTaskBarIcon

Erlang module

See external documentation: **wxTaskBarIcon**.

This class is derived (and can use functions) from:
wxEvtHandler

DATA TYPES

`wxTaskBarIcon()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxTaskBarIcon()`

See **external documentation**.

`popupMenu(This, Menu) -> boolean()`

Types:

```
This = wxTaskBarIcon()
Menu = wxMenu:wxMenu()
```

See **external documentation**.

`removeIcon(This) -> boolean()`

Types:

```
This = wxTaskBarIcon()
```

See **external documentation**.

`setIcon(This, Icon) -> boolean()`

Types:

```
This = wxTaskBarIcon()
Icon = wxIcon:wxIcon()
```

Equivalent to `setIcon(This, Icon, [])`.

`setIcon(This, Icon, Options:[Option]) -> boolean()`

Types:

```
This = wxTaskBarIcon()
Icon = wxIcon:wxIcon()
Option = {tooltip, unicode:chardata()}
```

See **external documentation**.

destroy(This::wxTaskBarIcon()) -> ok

Destroys this object, do not use object again

wxTaskBarIconEvent

Erlang module

See external documentation: [wxTaskBarIconEvent](#).

Use `wxEvtHandler:connect/3` with EventType:

`taskbar_move, taskbar_left_down, taskbar_left_up, taskbar_right_down, taskbar_right_up,`
`taskbar_left_dclick, taskbar_right_dclick`

See also the message variant `#wxTaskBarIcon{}` event record type.

This class is derived (and can use functions) from:

`wxEvtHandler`

DATA TYPES

`wxTaskBarIconEvent()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

wxTextAttr

Erlang module

See external documentation: **wxTextAttr**.

DATA TYPES

`wxTextAttr()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxTextAttr()`

See **external documentation**.

`new(ColText) -> wxTextAttr()`

Types:

`ColText = wx:wx_colour()`

Equivalent to `new(ColText, [])`.

`new(ColText, Options:[Option]) -> wxTextAttr()`

Types:

`ColText = wx:wx_colour()`

`Option = {colBack, wx:wx_colour()} | {font, wxFont:wxFont()} | {alignment, wx:wx_enum()}`

See **external documentation**.

Alignment = ?wxTEXT_ALIGNMENT_DEFAULT | ?wxTEXT_ALIGNMENT_LEFT | ?wxTEXT_ALIGNMENT_CENTRE | ?wxTEXT_ALIGNMENT_CENTER | ?wxTEXT_ALIGNMENT_RIGHT | ?wxTEXT_ALIGNMENT_JUSTIFIED

`getAlignment(This) -> wx:wx_enum()`

Types:

`This = wxTextAttr()`

See **external documentation**.

Res = ?wxTEXT_ALIGNMENT_DEFAULT | ?wxTEXT_ALIGNMENT_LEFT | ?wxTEXT_ALIGNMENT_CENTRE | ?wxTEXT_ALIGNMENT_CENTER | ?wxTEXT_ALIGNMENT_RIGHT | ?wxTEXT_ALIGNMENT_JUSTIFIED

`getBackgroundColour(This) -> wx:wx_colour4()`

Types:

`This = wxTextAttr()`

See **external documentation**.

wxTextAttr

getFont(This) -> wxFont:wxFont()

Types:

This = wxTextAttr()

See [external documentation](#).

getLeftIndent(This) -> integer()

Types:

This = wxTextAttr()

See [external documentation](#).

getLeftSubIndent(This) -> integer()

Types:

This = wxTextAttr()

See [external documentation](#).

getRightIndent(This) -> integer()

Types:

This = wxTextAttr()

See [external documentation](#).

getTabs(This) -> [integer()]

Types:

This = wxTextAttr()

See [external documentation](#).

getTextColour(This) -> wx:wx_colour4()

Types:

This = wxTextAttr()

See [external documentation](#).

hasBackgroundColour(This) -> boolean()

Types:

This = wxTextAttr()

See [external documentation](#).

hasFont(This) -> boolean()

Types:

This = wxTextAttr()

See [external documentation](#).

hasTextColour(This) -> boolean()

Types:

This = wxTextAttr()

See [external documentation](#).

`getFlags(This) -> integer()`

Types:

`This = wxTextAttr()`

See [external documentation](#).

`isDefault(This) -> boolean()`

Types:

`This = wxTextAttr()`

See [external documentation](#).

`setAlignment(This, Alignment) -> ok`

Types:

`This = wxTextAttr()`

`Alignment = wx:wx_enum()`

See [external documentation](#).

`Alignment = ?wxTEXT_ALIGNMENT_DEFAULT | ?wxTEXT_ALIGNMENT_LEFT | ?wxTEXT_ALIGNMENT_CENTRE | ?wxTEXT_ALIGNMENT_CENTER | ?wxTEXT_ALIGNMENT_RIGHT | ?wxTEXT_ALIGNMENT_JUSTIFIED`

`setBackgroundColour(This, ColBack) -> ok`

Types:

`This = wxTextAttr()`

`ColBack = wx:wx_colour()`

See [external documentation](#).

`setFlags(This, Flags) -> ok`

Types:

`This = wxTextAttr()`

`Flags = integer()`

See [external documentation](#).

`setFont(This, Font) -> ok`

Types:

`This = wxTextAttr()`

`Font = wxFont:wxFont()`

Equivalent to `setFont(This, Font, [])`.

`setFont(This, Font, Options:[Option]) -> ok`

Types:

`This = wxTextAttr()`

`Font = wxFont:wxFont()`

`Option = {flags, integer()}`

wxTextAttr

See [external documentation](#).

`setLeftIndent(This, Indent) -> ok`

Types:

```
This = wxTextAttr()  
Indent = integer()
```

Equivalent to `setLeftIndent(This, Indent, []).`

`setLeftIndent(This, Indent, Options::[Option]) -> ok`

Types:

```
This = wxTextAttr()  
Indent = integer()  
Option = {subIndent, integer()}
```

See [external documentation](#).

`setRightIndent(This, Indent) -> ok`

Types:

```
This = wxTextAttr()  
Indent = integer()
```

See [external documentation](#).

`setTabs(This, Tabs) -> ok`

Types:

```
This = wxTextAttr()  
Tabs = [integer()]
```

See [external documentation](#).

`setTextColour(This, ColText) -> ok`

Types:

```
This = wxTextAttr()  
ColText = wx:wx_colour()
```

See [external documentation](#).

`destroy(This::wxTextAttr()) -> ok`

Destroys this object, do not use object again

wxTextCtrl

Erlang module

See external documentation: **wxTextCtrl**.

This class is derived (and can use functions) from:

wxControl

wxWindow

wxEvtHandler

DATA TYPES

`wxTextCtrl()`

An object reference. The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxTextCtrl()`

See **external documentation**.

`new(Parent, Id) -> wxTextCtrl()`

Types:

```
Parent = wxWindow:wxWindow()  
Id = integer()
```

Equivalent to `new(Parent, Id, [])`.

`new(Parent, Id, Options:[Option]) -> wxTextCtrl()`

Types:

```
Parent = wxWindow:wxWindow()  
Id = integer()  
Option = {value, unicode:chardata()} | {pos, {X::integer(), Y::integer()}}  
| {size, {W::integer(), H::integer()}} | {style, integer()} | {validator,  
wx:wx_object()}
```

See **external documentation**.

`appendText(This, Text) -> ok`

Types:

```
This = wxTextCtrl()  
Text = unicode:chardata()
```

See **external documentation**.

`canCopy(This) -> boolean()`

Types:

wxTextCtrl

This = wxTextCtrl()

See [external documentation](#).

canCut(This) -> boolean()

Types:

This = wxTextCtrl()

See [external documentation](#).

canPaste(This) -> boolean()

Types:

This = wxTextCtrl()

See [external documentation](#).

canRedo(This) -> boolean()

Types:

This = wxTextCtrl()

See [external documentation](#).

canUndo(This) -> boolean()

Types:

This = wxTextCtrl()

See [external documentation](#).

clear(This) -> ok

Types:

This = wxTextCtrl()

See [external documentation](#).

copy(This) -> ok

Types:

This = wxTextCtrl()

See [external documentation](#).

create(This, Parent, Id) -> boolean()

Types:

This = wxTextCtrl()

Parent = wxWindow:wxWindow()

Id = integer()

Equivalent to *create(This, Parent, Id, [])*.

create(This, Parent, Id, Options:[Option]) -> boolean()

Types:

This = wxTextCtrl()

```
Parent = wxWindow:wxWindow()
Id = integer()
Option = {value, unicode:chardata()} | {pos, {X::integer(), Y::integer()}}
| {size, {W::integer(), H::integer()}} | {style, integer()} | {validator,
wx:wx_object()}
```

See [external documentation](#).

cut(This) -> ok

Types:

```
This = wxTextCtrl()
```

See [external documentation](#).

discardEdits(This) -> ok

Types:

```
This = wxTextCtrl()
```

See [external documentation](#).

changeValue(This, Value) -> ok

Types:

```
This = wxTextCtrl()
```

```
Value = unicode:chardata()
```

See [external documentation](#).

emulateKeyPress(This, Event) -> boolean()

Types:

```
This = wxTextCtrl()
```

```
Event = wxKeyEvent:wxKeyEvent()
```

See [external documentation](#).

getDefaultStyle(This) -> wxTextAttr:wxTextAttr()

Types:

```
This = wxTextCtrl()
```

See [external documentation](#).

getInsertionPoint(This) -> integer()

Types:

```
This = wxTextCtrl()
```

See [external documentation](#).

getLastPosition(This) -> integer()

Types:

```
This = wxTextCtrl()
```

See [external documentation](#).

wxTextCtrl

getLineLength(This, LineNo) -> integer()

Types:

```
This = wxTextCtrl()  
LineNo = integer()
```

See [external documentation](#).

getLineText(This, LineNo) -> unicode:charlist()

Types:

```
This = wxTextCtrl()  
LineNo = integer()
```

See [external documentation](#).

getNumberOfLines(This) -> integer()

Types:

```
This = wxTextCtrl()
```

See [external documentation](#).

getRange(This, From, To) -> unicode:charlist()

Types:

```
This = wxTextCtrl()  
From = integer()  
To = integer()
```

See [external documentation](#).

getSelection(This) -> {From::integer(), To::integer()}

Types:

```
This = wxTextCtrl()
```

See [external documentation](#).

getStringSelection(This) -> unicode:charlist()

Types:

```
This = wxTextCtrl()
```

See [external documentation](#).

getStyle(This, Position, Style) -> boolean()

Types:

```
This = wxTextCtrl()  
Position = integer()  
Style = wxTextAttr:wxTextAttr()
```

See [external documentation](#).

getValue(This) -> unicode:charlist()

Types:

```
This = wxTextCtrl()
```

See [external documentation](#).

```
isEditable(This) -> boolean()
```

Types:

```
This = wxTextCtrl()
```

See [external documentation](#).

```
isModified(This) -> boolean()
```

Types:

```
This = wxTextCtrl()
```

See [external documentation](#).

```
isMultiLine(This) -> boolean()
```

Types:

```
This = wxTextCtrl()
```

See [external documentation](#).

```
isSingleLine(This) -> boolean()
```

Types:

```
This = wxTextCtrl()
```

See [external documentation](#).

```
loadFile(This, File) -> boolean()
```

Types:

```
This = wxTextCtrl()
```

```
File = unicode:chardata()
```

Equivalent to *loadFile(This, File, [])*.

```
loadFile(This, File, Options::[Option]) -> boolean()
```

Types:

```
This = wxTextCtrl()
```

```
File = unicode:chardata()
```

```
Option = {fileType, integer()}
```

See [external documentation](#).

```
markDirty(This) -> ok
```

Types:

```
This = wxTextCtrl()
```

See [external documentation](#).

```
paste(This) -> ok
```

Types:

wxTextCtrl

This = wxTextCtrl()

See [external documentation](#).

positionToXY(This, Pos) -> Result

Types:

```
Result = {Res::boolean(), X::integer(), Y::integer()}

This = wxTextCtrl()

Pos = integer()
```

See [external documentation](#).

redo(This) -> ok

Types:

```
This = wxTextCtrl()
```

See [external documentation](#).

remove(This, From, To) -> ok

Types:

```
This = wxTextCtrl()

From = integer()

To = integer()
```

See [external documentation](#).

replace(This, From, To, Value) -> ok

Types:

```
This = wxTextCtrl()

From = integer()

To = integer()

Value = unicode:chardata()
```

See [external documentation](#).

saveFile(This) -> boolean()

Types:

```
This = wxTextCtrl()
```

Equivalent to `saveFile(This, [])`.

saveFile(This, Options:[Option]) -> boolean()

Types:

```
This = wxTextCtrl()

Option = {file, unicode:chardata()} | {fileType, integer()}
```

See [external documentation](#).

setDefaultStyle(This, Style) -> boolean()

Types:

```
This = wxTextCtrl()
Style = wxTextAttr:wxTextAttr()
```

See external documentation.

setEditable(This, Editable) -> ok

Types:

```
This = wxTextCtrl()
Editable = boolean()
```

See external documentation.

setInsertionPoint(This, Pos) -> ok

Types:

```
This = wxTextCtrl()
Pos = integer()
```

See external documentation.

setInsertionPointEnd(This) -> ok

Types:

```
This = wxTextCtrl()
```

See external documentation.

setMaxLength(This, Len) -> ok

Types:

```
This = wxTextCtrl()
Len = integer()
```

See external documentation.

setSelection(This, From, To) -> ok

Types:

```
This = wxTextCtrl()
From = integer()
To = integer()
```

See external documentation.

setStyle(This, Start, End, Style) -> boolean()

Types:

```
This = wxTextCtrl()
Start = integer()
End = integer()
Style = wxTextAttr:wxTextAttr()
```

See external documentation.

wxTextCtrl

setValue(This, Value) -> ok

Types:

```
This = wxTextCtrl()  
Value = unicode:chardata()
```

See [external documentation](#).

showPosition(This, Pos) -> ok

Types:

```
This = wxTextCtrl()  
Pos = integer()
```

See [external documentation](#).

undo(This) -> ok

Types:

```
This = wxTextCtrl()
```

See [external documentation](#).

writeText(This, Text) -> ok

Types:

```
This = wxTextCtrl()  
Text = unicode:chardata()
```

See [external documentation](#).

xYToPosition(This, X, Y) -> integer()

Types:

```
This = wxTextCtrl()  
X = integer()  
Y = integer()
```

See [external documentation](#).

destroy(This::wxTextCtrl()) -> ok

Destroys this object, do not use object again

wxTextDataObject

Erlang module

See external documentation: **wxTextDataObject**.

This class is derived (and can use functions) from:
wxDataObject

DATA TYPES

`wxTextDataObject()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxTextDataObject()`

Equivalent to `new([])`.

`new(Options :: [Option]) -> wxTextDataObject()`

Types:

`Option = {text, unicode:chardata()}`

See external documentation.

`getTextLength(This) -> integer()`

Types:

`This = wxTextDataObject()`

See external documentation.

`getText(This) -> unicode:charlist()`

Types:

`This = wxTextDataObject()`

See external documentation.

`setText(This, Text) -> ok`

Types:

`This = wxTextDataObject()`

`Text = unicode:chardata()`

See external documentation.

`destroy(This :: wxTextDataObject()) -> ok`

Destroys this object, do not use object again

wxTextEntryDialog

Erlang module

See external documentation: [wxTextEntryDialog](#).

This class is derived (and can use functions) from:

wxDialo
wxTopLevelWindow
wxWindow
wxEvtHandler

DATA TYPES

`wxTextEntryDialog()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new(Parent, Message) -> wxTextEntryDialog()`

Types:

```
Parent = wxWindow:wxWindow()  
Message = unicode:chardata()
```

Equivalent to `new(Parent, Message, [])`.

`new(Parent, Message, Options:[Option]) -> wxTextEntryDialog()`

Types:

```
Parent = wxWindow:wxWindow()  
Message = unicode:chardata()  
Option = {caption, unicode:chardata()} | {value, unicode:chardata()} |  
{style, integer()} | {pos, {X::integer(), Y::integer()}}
```

See [external documentation](#).

`getValue(This) -> unicode:charlist()`

Types:

```
This = wxTextEntryDialog()
```

See [external documentation](#).

`setValue(This, Val) -> ok`

Types:

```
This = wxTextEntryDialog()  
Val = unicode:chardata()
```

See [external documentation](#).

`destroy(This::wxTextEntryDialog()) -> ok`

Destroys this object, do not use object again

wxToggleButton

Erlang module

See external documentation: **wxToggleButton**.

This class is derived (and can use functions) from:

wxControl

wxWindow

wxEvtHandler

DATA TYPES

wxToggleButton()

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

new() -> wxToggleButton()

See **external documentation**.

new(Parent, Id, Label) -> wxToggleButton()

Types:

```
Parent = wxWindow:wxWindow()
Id = integer()
Label = unicode:chardata()
```

Equivalent to *new(Parent, Id, Label, [])*.

new(Parent, Id, Label, Options:[Option]) -> wxToggleButton()

Types:

```
Parent = wxWindow:wxWindow()
Id = integer()
Label = unicode:chardata()
Option = {pos, {X::integer(), Y::integer()}} | {size, {W::integer(),
H::integer()}} | {style, integer()} | {validator, wx:wx_object()}
```

See **external documentation**.

create(This, Parent, Id, Label) -> boolean()

Types:

```
This = wxToggleButton()
Parent = wxWindow:wxWindow()
Id = integer()
Label = unicode:chardata()
```

Equivalent to *create(This, Parent, Id, Label, [])*.

create(This, Parent, Id, Label, Options:[Option]) -> boolean()

Types:

```
This = wxToggleButton()
Parent = wxWindow:wxWindow()
Id = integer()
Label = unicode:chardata()
Option = {pos, {X::integer(), Y::integer()}} | {size, {W::integer(),
H::integer()}} | {style, integer()} | {validator, wx:wx_object()}
```

See [external documentation](#).

getValue(This) -> boolean()

Types:

```
This = wxToggleButton()
```

See [external documentation](#).

setValue(This, State) -> ok

Types:

```
This = wxToggleButton()
State = boolean()
```

See [external documentation](#).

destroy(This::wxToggleButton()) -> ok

Destroys this object, do not use object again

wxToolBar

Erlang module

See external documentation: **wxToolBar**.

This class is derived (and can use functions) from:

wxControl

wxWindow

wxEvtHandler

DATA TYPES

wxToolBar()

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

addControl(This, Control) -> wx:wx_object()

Types:

```
This = wxToolBar()  
Control = wxControl:wxControl()
```

See [external documentation](#).

addSeparator(This) -> wx:wx_object()

Types:

```
This = wxToolBar()
```

See [external documentation](#).

addTool(This, Tool) -> wx:wx_object()

Types:

```
This = wxToolBar()  
Tool = wx:wx_object()
```

See [external documentation](#).

addTool(This, Toolid, Bitmap) -> wx:wx_object()

Types:

```
This = wxToolBar()  
Toolid = integer()  
Bitmap = wxBitmap:wxBitmap()
```

Equivalent to *addTool(This, Toolid, Bitmap, [])*.

addTool(This, Toolid, Label, Bitmap) -> wx:wx_object()

Types:

```
This = wxToolBar()
Toolid = integer()
Label = unicode:chardata()
Bitmap = wxBitmap:wxBitmap()
```

See [external documentation](#).

Also:

```
addTool(This, Toolid, Bitmap, BmpDisabled) -> wx:wx_object() when
This::wxToolBar(), Toolid::integer(), Bitmap::wxBitmap:wxBitmap(), BmpDisabled::wxBitmap:wxBitmap();
(This, Toolid, Bitmap, [Option]) -> wx:wx_object() when
This::wxToolBar(), Toolid::integer(), Bitmap::wxBitmap:wxBitmap(),
Option :: {'shortHelpString', unicode:chardata()}
| {'longHelpString', unicode:chardata()}.
```

```
Kind = ?wxITEM_SEPARATOR | ?wxITEM_NORMAL | ?wxITEM_CHECK | ?wxITEM_RADIO | ?
wxITEM_MAX
```

```
addTool(This, Toolid, Label, Bitmap, BmpDisabled) -> wx:wx_object()
```

Types:

```
This = wxToolBar()
Toolid = integer()
Label = unicode:chardata()
Bitmap = wxBitmap:wxBitmap()
BmpDisabled = wxBitmap:wxBitmap()
```

See [external documentation](#).

Also:

```
addTool(This, Toolid, Label, Bitmap, [Option]) -> wx:wx_object() when
This::wxToolBar(), Toolid::integer(), Label::unicode:chardata(), Bitmap::wxBitmap:wxBitmap(),
Option :: {'shortHelp', unicode:chardata()}
| {'kind', wx:wx_enum()};
(This, Toolid, Bitmap, BmpDisabled, [Option]) -> wx:wx_object() when
This::wxToolBar(), Toolid::integer(), Bitmap::wxBitmap:wxBitmap(), BmpDisabled::wxBitmap:wxBitmap(),
Option :: {'toggle', boolean()}
| {'clientData', wx:wx_object()}
| {'shortHelpString', unicode:chardata()}
| {'longHelpString', unicode:chardata()}.
```

```
Kind = ?wxITEM_SEPARATOR | ?wxITEM_NORMAL | ?wxITEM_CHECK | ?wxITEM_RADIO | ?
wxITEM_MAX
```

```
addTool(This, Toolid, Bitmap, BmpDisabled, Toggle, XPos) -> wx:wx_object()
```

Types:

```
This = wxToolBar()
Toolid = integer()
Bitmap = wxBitmap:wxBitmap()
BmpDisabled = wxBitmap:wxBitmap()
Toggle = boolean()
XPos = integer()
```

See [external documentation](#).

wxToolBar

Also:

```
addTool(This, Toolid, Label, Bitmap, BmpDisabled, [Option]) -> wx:wx_object() when
This::wxToolBar(),      Toolid::integer(),      Label::unicode:chardata(),      Bitmap::wxBitmap:wxBitmap(),
BmpDisabled::wxBitmap:wxBitmap(),
Option :: {'kind', wx:wx_enum()}
| {'shortHelp', unicode:chardata()}
| {'longHelp', unicode:chardata()}
| {'data', wx:wx_object()}.

Kind = ?wxITEM_SEPARATOR | ?wxITEM_NORMAL | ?wxITEM_CHECK | ?wxITEM_RADIO | ?
wxITEM_MAX
```

```
addTool(This, Toolid, Bitmap, BmpDisabled, Toggle, XPos, Options::[Option]) -> wx:wx_object()
```

Types:

```
This = wxToolBar()
Toolid = integer()
Bitmap = wxBitmap:wxBitmap()
BmpDisabled = wxBitmap:wxBitmap()
Toggle = boolean()
XPos = integer()
Option = {yPos, integer()} | {clientData, wx:wx_object()} | {shortHelp,
unicode:chardata()} | {longHelp, unicode:chardata()}
```

See [external documentation](#).

```
addCheckTool(This, Toolid, Label, Bitmap) -> wx:wx_object()
```

Types:

```
This = wxToolBar()
Toolid = integer()
Label = unicode:chardata()
Bitmap = wxBitmap:wxBitmap()
```

Equivalent to *addCheckTool(This, Toolid, Label, Bitmap, [])*.

```
addCheckTool(This, Toolid, Label, Bitmap, Options::[Option]) -> wx:wx_object()
```

Types:

```
This = wxToolBar()
Toolid = integer()
Label = unicode:chardata()
Bitmap = wxBitmap:wxBitmap()
Option = {bmpDisabled, wxBitmap:wxBitmap()} | {shortHelp,
unicode:chardata()} | {longHelp, unicode:chardata()} | {data,
wx:wx_object()}
```

See [external documentation](#).

```
addRadioTool(This, Toolid, Label, Bitmap) -> wx:wx_object()
```

Types:

```
This = wxToolBar()
Toolid = integer()
Label = unicode:chardata()
Bitmap = wxBitmap:wxBitmap()
```

Equivalent to `addRadioTool(This, Toolid, Label, Bitmap, []).`

```
addRadioTool(This, Toolid, Label, Bitmap, Options:[Option]) ->
wx:wx_object()
```

Types:

```
This = wxToolBar()
Toolid = integer()
Label = unicode:chardata()
Bitmap = wxBitmap:wxBitmap()
Option = {bmpDisabled, wxBitmap:wxBitmap()} | {shortHelp,
unicode:chardata()} | {longHelp, unicode:chardata()} | {data,
wx:wx_object()}
```

See [external documentation](#).

```
addStretchableSpace(This) -> wx:wx_object()
```

Types:

```
This = wxToolBar()
```

See [external documentation](#).

```
insertStretchableSpace(This, Pos) -> wx:wx_object()
```

Types:

```
This = wxToolBar()
Pos = integer()
```

See [external documentation](#).

```
deleteTool(This, Toolid) -> boolean()
```

Types:

```
This = wxToolBar()
Toolid = integer()
```

See [external documentation](#).

```
deleteToolByPos(This, Pos) -> boolean()
```

Types:

```
This = wxToolBar()
Pos = integer()
```

See [external documentation](#).

wxToolBar

enableTool(This, Toolid, Enable) -> ok

Types:

```
This = wxToolBar()  
Toolid = integer()  
Enable = boolean()
```

See [external documentation](#).

findById(This, Toolid) -> wx:wx_object()

Types:

```
This = wxToolBar()  
Toolid = integer()
```

See [external documentation](#).

findControl(This, Toolid) -> wxControl:wxControl()

Types:

```
This = wxToolBar()  
Toolid = integer()
```

See [external documentation](#).

findToolForPosition(This, X, Y) -> wx:wx_object()

Types:

```
This = wxToolBar()  
X = integer()  
Y = integer()
```

See [external documentation](#).

getToolSize(This) -> {W::integer(), H::integer()}

Types:

```
This = wxToolBar()
```

See [external documentation](#).

getToolBitmapSize(This) -> {W::integer(), H::integer()}

Types:

```
This = wxToolBar()
```

See [external documentation](#).

getMargins(This) -> {W::integer(), H::integer()}

Types:

```
This = wxToolBar()
```

See [external documentation](#).

getToolEnabled(This, Toolid) -> boolean()

Types:

```
This = wxToolBar()
Toolid = integer()
```

See [external documentation](#).

getToolLongHelp(This, Toolid) -> unicode:charlist()

Types:

```
This = wxToolBar()
Toolid = integer()
```

See [external documentation](#).

getToolPacking(This) -> integer()

Types:

```
This = wxToolBar()
```

See [external documentation](#).

getToolPos(This, Id) -> integer()

Types:

```
This = wxToolBar()
Id = integer()
```

See [external documentation](#).

getToolSeparation(This) -> integer()

Types:

```
This = wxToolBar()
```

See [external documentation](#).

getToolShortHelp(This, Toolid) -> unicode:charlist()

Types:

```
This = wxToolBar()
Toolid = integer()
```

See [external documentation](#).

getToolState(This, Toolid) -> boolean()

Types:

```
This = wxToolBar()
Toolid = integer()
```

See [external documentation](#).

insertControl(This, Pos, Control) -> wx:wx_object()

Types:

```
This = wxToolBar()
Pos = integer()
Control = wxControl:wxControl()
```

wxToolBar

See [external documentation](#).

`insertSeparator(This, Pos) -> wx:wx_object()`

Types:

```
This = wxToolBar()
Pos = integer()
```

See [external documentation](#).

`insertTool(This, Pos, Tool) -> wx:wx_object()`

Types:

```
This = wxToolBar()
Pos = integer()
Tool = wx:wx_object()
```

See [external documentation](#).

`insertTool(This, Pos, Toolid, Bitmap) -> wx:wx_object()`

Types:

```
This = wxToolBar()
Pos = integer()
Toolid = integer()
Bitmap = wxBitmap:wxBitmap()
```

Equivalent to `insertTool(This, Pos, Toolid, Bitmap, [])`.

`insertTool(This, Pos, Toolid, Label, Bitmap) -> wx:wx_object()`

Types:

```
This = wxToolBar()
Pos = integer()
Toolid = integer()
Label = unicode:chardata()
Bitmap = wxBitmap:wxBitmap()
```

See [external documentation](#).

Also:

`insertTool(This, Pos, Toolid, Bitmap, [Option]) -> wx:wx_object()` when
This::wxToolBar(), Pos::integer(), Toolid::integer(), Bitmap::wxBitmap:wxBitmap(),
Option :: {'bmpDisabled', wxBitmap:wxBitmap()}
| {'toggle', boolean()}
| {'clientData', wx:wx_object()}
| {'shortHelp', unicode:chardata()}
| {'longHelp', unicode:chardata()}.

Kind = ?wxITEM_SEPARATOR | ?wxITEM_NORMAL | ?wxITEM_CHECK | ?wxITEM_RADIO | ?wxITEM_MAX

`insertTool(This, Pos, Toolid, Label, Bitmap, Options::[Option]) -> wx:wx_object()`

Types:

```
This = wxToolBar()
Pos = integer()
Toolid = integer()
Label = unicode:chardata()
Bitmap = wxBitmap:wxBitmap()
Option = {bmpDisabled, wxBitmap:wxBitmap()} | {kind, wx:wx_enum()}
| {shortHelp, unicode:chardata()} | {longHelp, unicode:chardata()} |
{clientData, wx:wx_object()}
```

See [external documentation](#).

Kind = ?wxITEM_SEPARATOR | ?wxITEM_NORMAL | ?wxITEM_CHECK | ?wxITEM_RADIO | ?wxITEM_MAX

realize(This) -> boolean()

Types:

```
This = wxToolBar()
```

See [external documentation](#).

removeTool(This, Toolid) -> wx:wx_object()

Types:

```
This = wxToolBar()
Toolid = integer()
```

See [external documentation](#).

setMargins(This, X, Y) -> ok

Types:

```
This = wxToolBar()
X = integer()
Y = integer()
```

See [external documentation](#).

setToolBitmapSize(This, Size) -> ok

Types:

```
This = wxToolBar()
Size = {W::integer(), H::integer()}
```

See [external documentation](#).

setToolLongHelp(This, Toolid, HelpString) -> ok

Types:

```
This = wxToolBar()
Toolid = integer()
HelpString = unicode:chardata()
```

See [external documentation](#).

wxToolBar

`setToolPacking(This, Packing) -> ok`

Types:

```
This = wxToolBar()  
Packing = integer()
```

See [external documentation](#).

`setToolShortHelp(This, Id, HelpString) -> ok`

Types:

```
This = wxToolBar()  
Id = integer()  
HelpString = unicode:chardata()
```

See [external documentation](#).

`setToolSeparation(This, Separation) -> ok`

Types:

```
This = wxToolBar()  
Separation = integer()
```

See [external documentation](#).

`toggleTool(This, Toolid, Toggle) -> ok`

Types:

```
This = wxToolBar()  
Toolid = integer()  
Toggle = boolean()
```

See [external documentation](#).

wxToolTip

Erlang module

See external documentation: **wxToolTip**.

DATA TYPES

`wxToolTip()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`enable(Flag) -> ok`

Types:

`Flag = boolean()`

See external documentation.

`setDelay(Msecs) -> ok`

Types:

`Msecs = integer()`

See external documentation.

`new(Tip) -> wxToolTip()`

Types:

`Tip = unicode:chardata()`

See external documentation.

`setTip(This, Tip) -> ok`

Types:

`This = wxToolTip()`

`Tip = unicode:chardata()`

See external documentation.

`getTip(This) -> unicode:charlist()`

Types:

`This = wxToolTip()`

See external documentation.

`getWindow(This) -> wxWindow:wxWindow()`

Types:

`This = wxToolTip()`

See external documentation.

wxToolTip

destroy(This::wxToolTip()) -> ok

Destroys this object, do not use object again

wxToolbook

Erlang module

See external documentation: **wxToolbook**.

This class is derived (and can use functions) from:

wxControl

wxWindow

wxEvtHandler

DATA TYPES

`wxToolbook()`

An object reference. The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxToolbook()`

See **external documentation**.

`new(Parent, Id) -> wxToolbook()`

Types:

```
Parent = wxWindow:wxWindow()
Id = integer()
```

Equivalent to `new(Parent, Id, [])`.

`new(Parent, Id, Options:[Option]) -> wxToolbook()`

Types:

```
Parent = wxWindow:wxWindow()
Id = integer()
Option = {pos, {X::integer(), Y::integer()}}
        | {size, {W::integer(), H::integer()}}
        | {style, integer()}
```

See **external documentation**.

`addPage(This, Page, Text) -> boolean()`

Types:

```
This = wxToolbook()
Page = wxWindow:wxWindow()
Text = unicode:chardata()
```

Equivalent to `addPage(This, Page, Text, [])`.

`addPage(This, Page, Text, Options:[Option]) -> boolean()`

Types:

wxToolbook

```
This = wxToolbook()
Page = wxWindow:wxWindow()
Text = unicode:chardata()
Option = {bSelect, boolean()} | {imageId, integer()}
```

See [external documentation](#).

advanceSelection(This) -> ok

Types:

```
This = wxToolbook()
```

Equivalent to *advanceSelection(This, [])*.

advanceSelection(This, Options:[Option]) -> ok

Types:

```
This = wxToolbook()
Option = {forward, boolean()}
```

See [external documentation](#).

assignImageList(This, ImageList) -> ok

Types:

```
This = wxToolbook()
ImageList = wxImageList:wxImageList()
```

See [external documentation](#).

create(This, Parent, Id) -> boolean()

Types:

```
This = wxToolbook()
Parent = wxWindow:wxWindow()
Id = integer()
```

Equivalent to *create(This, Parent, Id, [])*.

create(This, Parent, Id, Options:[Option]) -> boolean()

Types:

```
This = wxToolbook()
Parent = wxWindow:wxWindow()
Id = integer()
Option = {pos, {X::integer(), Y::integer()}} | {size, {W::integer(),
H::integer()}} | {style, integer()}
```

See [external documentation](#).

deleteAllPages(This) -> boolean()

Types:

```
This = wxToolbook()
```

See [external documentation](#).

```
deletePage(This, N) -> boolean()
```

Types:

```
  This = wxToolbook()
  N = integer()
```

See [external documentation](#).

```
removePage(This, N) -> boolean()
```

Types:

```
  This = wxToolbook()
  N = integer()
```

See [external documentation](#).

```
getCurrentPage(This) -> wxWindow:wxWindow()
```

Types:

```
  This = wxToolbook()
```

See [external documentation](#).

```
getImageList(This) -> wxImageList:wxImageList()
```

Types:

```
  This = wxToolbook()
```

See [external documentation](#).

```
getPage(This, N) -> wxWindow:wxWindow()
```

Types:

```
  This = wxToolbook()
  N = integer()
```

See [external documentation](#).

```
getPageCount(This) -> integer()
```

Types:

```
  This = wxToolbook()
```

See [external documentation](#).

```
getPageImage(This, N) -> integer()
```

Types:

```
  This = wxToolbook()
  N = integer()
```

See [external documentation](#).

```
getPageText(This, N) -> unicode:charlist()
```

Types:

```
  This = wxToolbook()
  N = integer()
```

wxToolbook

See [external documentation](#).

`getSelection(This) -> integer()`

Types:

`This = wxToolbook()`

See [external documentation](#).

`hitTest(This, Pt) -> Result`

Types:

```
Result = {Res::integer(), Flags::integer()}
This = wxToolbook()
Pt = {X::integer(), Y::integer()}
```

See [external documentation](#).

`insertPage(This, N, Page, Text) -> boolean()`

Types:

```
This = wxToolbook()
N = integer()
Page = wxWindow:wxWindow()
Text = unicode:chardata()
```

Equivalent to `insertPage(This, N, Page, Text, [])`.

`insertPage(This, N, Page, Text, Options:[Option]) -> boolean()`

Types:

```
This = wxToolbook()
N = integer()
Page = wxWindow:wxWindow()
Text = unicode:chardata()
Option = {bSelect, boolean()} | {imageId, integer()}
```

See [external documentation](#).

`setImageList(This, ImageList) -> ok`

Types:

```
This = wxToolbook()
ImageList = wxImageList:wxImageList()
```

See [external documentation](#).

`setPageSize(This, Size) -> ok`

Types:

```
This = wxToolbook()
Size = {W::integer(), H::integer()}
```

See [external documentation](#).

setPageImage(This, N, ImageId) -> boolean()

Types:

```
This = wxToolbook()
N = integer()
ImageId = integer()
```

See [external documentation](#).

setPageText(This, N, StrText) -> boolean()

Types:

```
This = wxToolbook()
N = integer()
StrText = unicode:chardata()
```

See [external documentation](#).

setSelection(This, N) -> integer()

Types:

```
This = wxToolbook()
N = integer()
```

See [external documentation](#).

changeSelection(This, N) -> integer()

Types:

```
This = wxToolbook()
N = integer()
```

See [external documentation](#).

destroy(This::wxToolbook()) -> ok

Destroys this object, do not use object again

wxTopLevelWindow

Erlang module

See external documentation: **wxTopLevelWindow**.

This class is derived (and can use functions) from:

wxWindow

wxEvtHandler

DATA TYPES

wxTopLevelWindow()

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

getIcon(This) -> wxIcon:wxIcon()

Types:

This = wxTopLevelWindow()

See **external documentation**.

getIcons(This) -> wxIconBundle:wxIconBundle()

Types:

This = wxTopLevelWindow()

See **external documentation**.

getTitle(This) -> unicode:charlist()

Types:

This = wxTopLevelWindow()

See **external documentation**.

isActive(This) -> boolean()

Types:

This = wxTopLevelWindow()

See **external documentation**.

iconize(This) -> ok

Types:

This = wxTopLevelWindow()

Equivalent to *iconize(This, [])*.

iconize(This, Options::[Option]) -> ok

Types:

```
This = wxTopLevelWindow()
Option = {iconize, boolean()}
```

See [external documentation](#).

isFullScreen(This) -> boolean()

Types:

```
This = wxTopLevelWindow()
```

See [external documentation](#).

isIconized(This) -> boolean()

Types:

```
This = wxTopLevelWindow()
```

See [external documentation](#).

isMaximized(This) -> boolean()

Types:

```
This = wxTopLevelWindow()
```

See [external documentation](#).

maximize(This) -> ok

Types:

```
This = wxTopLevelWindow()
```

Equivalent to `maximize(This, [])`.

maximize(This, Options::[Option]) -> ok

Types:

```
This = wxTopLevelWindow()
Option = {maximize, boolean()}
```

See [external documentation](#).

requestUserAttention(This) -> ok

Types:

```
This = wxTopLevelWindow()
```

Equivalent to `requestUserAttention(This, [])`.

requestUserAttention(This, Options::[Option]) -> ok

Types:

```
This = wxTopLevelWindow()
Option = {flags, integer()}
```

See [external documentation](#).

setIcon(This, Icon) -> ok

Types:

wxTopLevelWindow

```
This = wxTopLevelWindow()
Icon = wxIcon:wxIcon()
```

See [external documentation](#).

`setIcons(This, Icons) -> ok`

Types:

```
This = wxTopLevelWindow()
Icons = wxIconBundle:wxIconBundle()
```

See [external documentation](#).

`centerOnScreen(This) -> ok`

Types:

```
This = wxTopLevelWindow()
```

Equivalent to `centerOnScreen(This, [])`.

`centerOnScreen(This, Options::[Option]) -> ok`

Types:

```
This = wxTopLevelWindow()
Option = {dir, integer()}
```

See [external documentation](#).

`centreOnScreen(This) -> ok`

Types:

```
This = wxTopLevelWindow()
```

Equivalent to `centreOnScreen(This, [])`.

`centreOnScreen(This, Options::[Option]) -> ok`

Types:

```
This = wxTopLevelWindow()
Option = {dir, integer()}
```

See [external documentation](#).

`setShape(This, Region) -> boolean()`

Types:

```
This = wxTopLevelWindow()
Region = wxRegion:wxRegion()
```

See [external documentation](#).

`setTitle(This, Title) -> ok`

Types:

```
This = wxTopLevelWindow()
Title = unicode:chardata()
```

See [external documentation](#).

`showFullScreen(This, Show) -> boolean()`

Types:

`This = wxTopLevelWindow()`

`Show = boolean()`

Equivalent to `showFullScreen(This, Show, [])`.

`showFullScreen(This, Show, Options:[Option]) -> boolean()`

Types:

`This = wxTopLevelWindow()`

`Show = boolean()`

`Option = {style, integer()}`

See external documentation.

wxTreeCtrl

Erlang module

See external documentation: **wxTreeCtrl**.

Note: The representation of treeItemId() have changed from the original class implementation to be an semi-opaque type, Equality between TreeItemId's can be tested and zero means that the TreeItem is invalid.

DATA TYPES

wxTreeCtrl()

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

new() -> wxTreeCtrl()

See **external documentation**.

new(Parent) -> wxTreeCtrl()

Types:

```
Parent = wxWindow:wxWindow()
```

Equivalent to *new(Parent, [])*.

new(Parent, Options::[Option]) -> wxTreeCtrl()

Types:

```
Parent = wxWindow:wxWindow()
Option = {id, integer()} | {pos, {X::integer(), Y::integer()}} |
{size, {W::integer(), H::integer()}} | {style, integer()} | {validator,
wx:wx_object()}
```

See **external documentation**.

addRoot(This, Text) -> integer()

Types:

```
This = wxTreeCtrl()
Text = unicode:chardata()
```

Equivalent to *addRoot(This, Text, [])*.

addRoot(This, Text, Options::[Option]) -> integer()

Types:

```
This = wxTreeCtrl()
Text = unicode:chardata()
Option = {image, integer()} | {selectedImage, integer()} | {data, term()}
```

See **external documentation**.

appendItem(This, Parent, Text) -> integer()

Types:

```
This = wxTreeCtrl()  
Parent = integer()  
Text = unicode:chardata()
```

Equivalent to *appendItem*(*This*, *Parent*, *Text*, []).

appendItem(This, Parent, Text, Options:[Option]) -> integer()

Types:

```
This = wxTreeCtrl()  
Parent = integer()  
Text = unicode:chardata()  
Option = {image, integer()} | {selectedImage, integer()} | {data, term()}
```

See **external documentation**.

assignImageList(This, ImageList) -> ok

Types:

```
This = wxTreeCtrl()  
ImageList = wxImageList:wxImageList()
```

See **external documentation**.

assignStateImageList(This, ImageList) -> ok

Types:

```
This = wxTreeCtrl()  
ImageList = wxImageList:wxImageList()
```

See **external documentation**.

collapse(This, Item) -> ok

Types:

```
This = wxTreeCtrl()  
Item = integer()
```

See **external documentation**.

collapseAndReset(This, Item) -> ok

Types:

```
This = wxTreeCtrl()  
Item = integer()
```

See **external documentation**.

create(This, Parent) -> boolean()

Types:

```
This = wxTreeCtrl()  
Parent = wxWindow:wxWindow()
```

wxTreeCtrl

Equivalent to `create(This, Parent, [])`.

`create(This, Parent, Options:[Option]) -> boolean()`

Types:

```
This = wxTreeCtrl()
Parent = wxWindow:wxWindow()
Option = {id, integer()} | {pos, {X::integer(), Y::integer()}} |
{size, {W::integer(), H::integer()}} | {style, integer()} | {validator,
wx:wx_object()}
```

See [external documentation](#).

`delete(This, Item) -> ok`

Types:

```
This = wxTreeCtrl()
Item = integer()
```

See [external documentation](#).

`deleteAllItems(This) -> ok`

Types:

```
This = wxTreeCtrl()
```

See [external documentation](#).

`deleteChildren(This, Item) -> ok`

Types:

```
This = wxTreeCtrl()
Item = integer()
```

See [external documentation](#).

`editLabel(This, Item) -> wxTextCtrl:wxTextCtrl()`

Types:

```
This = wxTreeCtrl()
Item = integer()
```

See [external documentation](#).

`ensureVisible(This, Item) -> ok`

Types:

```
This = wxTreeCtrl()
Item = integer()
```

See [external documentation](#).

`expand(This, Item) -> ok`

Types:

```
This = wxTreeCtrl()
```

```
Item = integer()
```

See [external documentation](#).

getBoundingClientRect(This, Item) -> Result

Types:

```
Result = {Res::boolean(), Rect::{X::integer(), Y::integer(), W::integer(),
H::integer()}}  
This = wxTreeCtrl()  
Item = integer()
```

Equivalent to *getBoundingClientRect(This, Item, [])*.

getBoundingClientRect(This, Item, Options::[Option]) -> Result

Types:

```
Result = {Res::boolean(), Rect::{X::integer(), Y::integer(), W::integer(),
H::integer()}}  
This = wxTreeCtrl()  
Item = integer()  
Option = {textOnly, boolean()}
```

See [external documentation](#).

getChildrenCount(This, Item) -> integer()

Types:

```
This = wxTreeCtrl()  
Item = integer()
```

Equivalent to *getChildrenCount(This, Item, [])*.

getChildrenCount(This, Item, Options::[Option]) -> integer()

Types:

```
This = wxTreeCtrl()  
Item = integer()  
Option = {recursively, boolean()}
```

See [external documentation](#).

getCount(This) -> integer()

Types:

```
This = wxTreeCtrl()
```

See [external documentation](#).

getEditControl(This) -> wxTextCtrl:wxTextCtrl()

Types:

```
This = wxTreeCtrl()
```

See [external documentation](#).

wxTreeCtrl

getFirstChild(This, Item) -> Result

Types:

```
Result = {Res:::integer(), Cookie:::integer()}
This = wxTreeCtrl()
Item = integer()
```

See [external documentation](#).

getNextChild(This, Item, Cookie) -> Result

Types:

```
Result = {Res:::integer(), Cookie:::integer()}
This = wxTreeCtrl()
Item = integer()
Cookie = integer()
```

See [external documentation](#).

getFirstVisibleItem(This) -> integer()

Types:

```
This = wxTreeCtrl()
```

See [external documentation](#).

getImageList(This) -> wxImageList:wxImageList()

Types:

```
This = wxTreeCtrl()
```

See [external documentation](#).

getIndent(This) -> integer()

Types:

```
This = wxTreeCtrl()
```

See [external documentation](#).

getItemBackgroundColour(This, Item) -> wx:wx_colour4()

Types:

```
This = wxTreeCtrl()
Item = integer()
```

See [external documentation](#).

getItemData(This, Item) -> term()

Types:

```
This = wxTreeCtrl()
Item = integer()
```

See [external documentation](#).

`getItemFont(This, Item) -> wxFont:wxFont()`

Types:

```
This = wxTreeCtrl()
Item = integer()
```

See [external documentation](#).

`getItemImage(This, Item) -> integer()`

Types:

```
This = wxTreeCtrl()
Item = integer()
```

See [external documentation](#).

`getItemImage(This, Item, Options:[Option]) -> integer()`

Types:

```
This = wxTreeCtrl()
Item = integer()
Option = {which, wx:wx_enum()}
```

See [external documentation](#).

Which = ?wxTreeItemIcon_Normal | ?wxTreeItemIcon_Selected | ?wxTreeItemIcon_Expanded | ?wxTreeItemIcon_SelectedExpanded | ?wxTreeItemIcon_Max

`getItemText(This, Item) -> unicode:charlist()`

Types:

```
This = wxTreeCtrl()
Item = integer()
```

See [external documentation](#).

`getItemTextColour(This, Item) -> wx:wx_colour4()`

Types:

```
This = wxTreeCtrl()
Item = integer()
```

See [external documentation](#).

`getLastChild(This, Item) -> integer()`

Types:

```
This = wxTreeCtrl()
Item = integer()
```

See [external documentation](#).

`getNextSibling(This, Item) -> integer()`

Types:

```
This = wxTreeCtrl()
Item = integer()
```

wxTreeCtrl

See [external documentation](#).

`getNextVisible(This, Item) -> integer()`

Types:

```
This = wxTreeCtrl()  
Item = integer()
```

See [external documentation](#).

`getItemParent(This, Item) -> integer()`

Types:

```
This = wxTreeCtrl()  
Item = integer()
```

See [external documentation](#).

`getPrevSibling(This, Item) -> integer()`

Types:

```
This = wxTreeCtrl()  
Item = integer()
```

See [external documentation](#).

`getPrevVisible(This, Item) -> integer()`

Types:

```
This = wxTreeCtrl()  
Item = integer()
```

See [external documentation](#).

`getRootItem(This) -> integer()`

Types:

```
This = wxTreeCtrl()
```

See [external documentation](#).

`getSelection(This) -> integer()`

Types:

```
This = wxTreeCtrl()
```

See [external documentation](#).

`getSelections(This) -> Result`

Types:

```
Result = {Res::integer(), Val:[integer()]}  
This = wxTreeCtrl()
```

See [external documentation](#).

```
getStateImageList(This) -> wxImageList:wxImageList()
```

Types:

```
This = wxTreeCtrl()
```

See [external documentation](#).

```
hitTest(This, Point) -> Result
```

Types:

```
Result = {Res::integer(), Flags::integer()}
```

```
This = wxTreeCtrl()
```

```
Point = {X::integer(), Y::integer()}
```

See [external documentation](#).

```
insertItem(This, Parent, Pos, Text) -> integer()
```

Types:

```
This = wxTreeCtrl()
```

```
Parent = integer()
```

```
Pos = integer()
```

```
Text = unicode:chardata()
```

Equivalent to *insertItem(This, Parent, Pos, Text, [])*.

```
insertItem(This, Parent, Pos, Text, Options:[Option]) -> integer()
```

Types:

```
This = wxTreeCtrl()
```

```
Parent = integer()
```

```
Pos = integer()
```

```
Text = unicode:chardata()
```

```
Option = {image, integer()} | {selImage, integer()} | {data, term()}
```

See [external documentation](#).

```
isBold(This, Item) -> boolean()
```

Types:

```
This = wxTreeCtrl()
```

```
Item = integer()
```

See [external documentation](#).

```
isExpanded(This, Item) -> boolean()
```

Types:

```
This = wxTreeCtrl()
```

```
Item = integer()
```

See [external documentation](#).

```
isSelected(This, Item) -> boolean()
```

Types:

wxTreeCtrl

```
This = wxTreeCtrl()  
Item = integer()
```

See [external documentation](#).

isVisible(This, Item) -> boolean()

Types:

```
This = wxTreeCtrl()  
Item = integer()
```

See [external documentation](#).

itemHasChildren(This, Item) -> boolean()

Types:

```
This = wxTreeCtrl()  
Item = integer()
```

See [external documentation](#).

isTreeItemIdOk(Id) -> boolean()

Types:

```
Id = integer()
```

See [external documentation](#).

prependItem(This, Parent, Text) -> integer()

Types:

```
This = wxTreeCtrl()  
Parent = integer()  
Text = unicode:chardata()
```

Equivalent to *prependItem(This, Parent, Text, [])*.

prependItem(This, Parent, Text, Options:[Option]) -> integer()

Types:

```
This = wxTreeCtrl()  
Parent = integer()  
Text = unicode:chardata()  
Option = {image, integer()} | {selectedImage, integer()} | {data, term()}
```

See [external documentation](#).

scrollTo(This, Item) -> ok

Types:

```
This = wxTreeCtrl()  
Item = integer()
```

See [external documentation](#).

```
selectItem(This, Item) -> ok
```

Types:

```
  This = wxTreeCtrl()  
  Item = integer()
```

See [external documentation](#).

```
selectItem(This, Item, Options::[Option]) -> ok
```

Types:

```
  This = wxTreeCtrl()  
  Item = integer()  
  Option = {select, boolean()}
```

See [external documentation](#).

```
setIndent(This, Indent) -> ok
```

Types:

```
  This = wxTreeCtrl()  
  Indent = integer()
```

See [external documentation](#).

```
setImageList(This, ImageList) -> ok
```

Types:

```
  This = wxTreeCtrl()  
  ImageList = wxImageList:wxImageList()
```

See [external documentation](#).

```
setItemBackgroundColour(This, Item, Col) -> ok
```

Types:

```
  This = wxTreeCtrl()  
  Item = integer()  
  Col = wx:wx_colour()
```

See [external documentation](#).

```
setItemBold(This, Item) -> ok
```

Types:

```
  This = wxTreeCtrl()  
  Item = integer()
```

Equivalent to `setItemBold(This, Item, [])`.

```
setItemBold(This, Item, Options::[Option]) -> ok
```

Types:

```
  This = wxTreeCtrl()  
  Item = integer()  
  Option = {bold, boolean()}
```

wxTreeCtrl

See [external documentation](#).

`setItemData(This, Item, Data) -> ok`

Types:

```
This = wxTreeCtrl()  
Item = integer()  
Data = term()
```

See [external documentation](#).

`setItemDropHighlight(This, Item) -> ok`

Types:

```
This = wxTreeCtrl()  
Item = integer()
```

Equivalent to `setItemDropHighlight(This, Item, []).`

`setItemDropHighlight(This, Item, Options:[Option]) -> ok`

Types:

```
This = wxTreeCtrl()  
Item = integer()  
Option = {highlight, boolean()}
```

See [external documentation](#).

`setItemFont(This, Item, Font) -> ok`

Types:

```
This = wxTreeCtrl()  
Item = integer()  
Font = wxFont:wxFont()
```

See [external documentation](#).

`setItemHasChildren(This, Item) -> ok`

Types:

```
This = wxTreeCtrl()  
Item = integer()
```

Equivalent to `setItemHasChildren(This, Item, []).`

`setItemHasChildren(This, Item, Options:[Option]) -> ok`

Types:

```
This = wxTreeCtrl()  
Item = integer()  
Option = {has, boolean()}
```

See [external documentation](#).

setItemImage(This, Item, Image) -> ok

Types:

```
This = wxTreeCtrl()  
Item = integer()  
Image = integer()
```

See [external documentation](#).

setItemImage(This, Item, Image, Options::[Option]) -> ok

Types:

```
This = wxTreeCtrl()  
Item = integer()  
Image = integer()  
Option = {which, wx:wx_enum()}
```

See [external documentation](#).

Which = ?wxTreeItemIcon_Normal | ?wxTreeItemIcon_Selected | ?wxTreeItemIcon_Expanded | ?wxTreeItemIcon_SelectedExpanded | ?wxTreeItemIcon_Max

setItemText(This, Item, Text) -> ok

Types:

```
This = wxTreeCtrl()  
Item = integer()  
Text = unicode:chardata()
```

See [external documentation](#).

setItemTextColour(This, Item, Col) -> ok

Types:

```
This = wxTreeCtrl()  
Item = integer()  
Col = wx:wx_colour()
```

See [external documentation](#).

setStateImageList(This, ImageList) -> ok

Types:

```
This = wxTreeCtrl()  
ImageList = wxImageList:wxImageList()
```

See [external documentation](#).

setWindowStyle(This, Styles) -> ok

Types:

```
This = wxTreeCtrl()  
Styles = integer()
```

See [external documentation](#).

wxTreeCtrl

sortChildren(This, Item) -> ok

Types:

```
This = wxTreeCtrl()  
Item = integer()
```

See [external documentation](#).

toggle(This, Item) -> ok

Types:

```
This = wxTreeCtrl()  
Item = integer()
```

See [external documentation](#).

toggleItemSelection(This, Item) -> ok

Types:

```
This = wxTreeCtrl()  
Item = integer()
```

See [external documentation](#).

unselect(This) -> ok

Types:

```
This = wxTreeCtrl()
```

See [external documentation](#).

unselectAll(This) -> ok

Types:

```
This = wxTreeCtrl()
```

See [external documentation](#).

unselectItem(This, Item) -> ok

Types:

```
This = wxTreeCtrl()  
Item = integer()
```

See [external documentation](#).

destroy(This::wxTreeCtrl()) -> ok

Destroys this object, do not use object again

wxTreeEvent

Erlang module

See external documentation: **wxTreeEvent**.

Use *wxEvtHandler:connect/3* with EventType:

```
command_tree_begin_drag,      command_tree_begin_rdrag,      command_tree_begin_label_edit,
command_tree_end_label_edit,   command_tree_delete_item,    command_tree_get_info,
command_tree_set_info,        command_tree_item_expanded,  command_tree_item_expanding,
command_tree_item_collapsed,  command_tree_item_collapse,  command_tree_sel_changed,
command_tree_sel_changing,   command_tree_key_down,       command_tree_item_activated,
command_tree_item_right_click, command_tree_item_middle_click, command_tree_end_drag,
command_tree_state_image_click, command_tree_item_gettooltip, command_tree_item_menu
```

See also the message variant *#wxTree{}* event record type.

This class is derived (and can use functions) from:

wxNotifyEvent
wxCommandEvent
wxEvtHandler

DATA TYPES

wxTreeEvent()

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

getKeyCode(This) -> integer()

Types:

```
This = wxTreeEvent()
```

See **external documentation**.

getItem(This) -> integer()

Types:

```
This = wxTreeEvent()
```

See **external documentation**.

getKeyEvent(This) -> wxKeyEvent:wxKeyEvent()

Types:

```
This = wxTreeEvent()
```

See **external documentation**.

getLabel(This) -> unicode:charlist()

Types:

```
This = wxTreeEvent()
```

wxTreeEvent

See [external documentation](#).

`getOldItem(This) -> integer()`

Types:

`This = wxTreeEvent()`

See [external documentation](#).

`getPoint(This) -> {X::integer(), Y::integer()}`

Types:

`This = wxTreeEvent()`

See [external documentation](#).

`isEditCancelled(This) -> boolean()`

Types:

`This = wxTreeEvent()`

See [external documentation](#).

`setToolTip(This, ToolTip) -> ok`

Types:

`This = wxTreeEvent()`

`ToolTip = unicode:chardata()`

See [external documentation](#).

wxTreebook

Erlang module

See external documentation: **wxTreebook**.

This class is derived (and can use functions) from:

wxControl

wxWindow

wxEvtHandler

DATA TYPES

`wxTreebook()`

An object reference. The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxTreebook()`

See **external documentation**.

`new(Parent, Id) -> wxTreebook()`

Types:

```
Parent = wxWindow:wxWindow()  
Id = integer()
```

Equivalent to `new(Parent, Id, [])`.

`new(Parent, Id, Options:[Option]) -> wxTreebook()`

Types:

```
Parent = wxWindow:wxWindow()  
Id = integer()  
Option = {pos, {X::integer(), Y::integer()} } | {size, {W::integer(),  
H::integer()} } | {style, integer()}
```

See **external documentation**.

`addPage(This, Page, Text) -> boolean()`

Types:

```
This = wxTreebook()  
Page = wxWindow:wxWindow()  
Text = unicode:chardata()
```

Equivalent to `addPage(This, Page, Text, [])`.

`addPage(This, Page, Text, Options:[Option]) -> boolean()`

Types:

wxTreebook

```
This = wxTreebook()
Page = wxWindow:wxWindow()
Text = unicode:chardata()
Option = {bSelect, boolean()} | {imageId, integer()}
```

See [external documentation](#).

advanceSelection(This) -> ok

Types:

```
This = wxTreebook()
```

Equivalent to *advanceSelection(This, [])*.

advanceSelection(This, Options:[Option]) -> ok

Types:

```
This = wxTreebook()
Option = {forward, boolean()}
```

See [external documentation](#).

assignImageList(This, ImageList) -> ok

Types:

```
This = wxTreebook()
ImageList = wxImageList:wxImageList()
```

See [external documentation](#).

create(This, Parent, Id) -> boolean()

Types:

```
This = wxTreebook()
Parent = wxWindow:wxWindow()
Id = integer()
```

Equivalent to *create(This, Parent, Id, [])*.

create(This, Parent, Id, Options:[Option]) -> boolean()

Types:

```
This = wxTreebook()
Parent = wxWindow:wxWindow()
Id = integer()
Option = {pos, {X::integer(), Y::integer()}} | {size, {W::integer(),
H::integer()}} | {style, integer()}
```

See [external documentation](#).

deleteAllPages(This) -> boolean()

Types:

```
This = wxTreebook()
```

See [external documentation](#).

deletePage(This, Pos) -> boolean()

Types:

This = *wxTreebook()*

Pos = *integer()*

See [external documentation](#).

removePage(This, N) -> boolean()

Types:

This = *wxTreebook()*

N = *integer()*

See [external documentation](#).

getCurrentPage(This) -> wxWindow:wxWindow()

Types:

This = *wxTreebook()*

See [external documentation](#).

getImageList(This) -> wxImageList:wxImageList()

Types:

This = *wxTreebook()*

See [external documentation](#).

getPage(This, N) -> wxWindow:wxWindow()

Types:

This = *wxTreebook()*

N = *integer()*

See [external documentation](#).

getPageCount(This) -> integer()

Types:

This = *wxTreebook()*

See [external documentation](#).

getPageImage(This, N) -> integer()

Types:

This = *wxTreebook()*

N = *integer()*

See [external documentation](#).

getPageText(This, N) -> unicode:charlist()

Types:

This = *wxTreebook()*

N = *integer()*

wxTreebook

See [external documentation](#).

`getSelection(This) -> integer()`

Types:

`This = wxTreebook()`

See [external documentation](#).

`expandNode(This, Pos) -> boolean()`

Types:

`This = wxTreebook()`

`Pos = integer()`

Equivalent to `expandNode(This, Pos, [])`.

`expandNode(This, Pos, Options:[Option]) -> boolean()`

Types:

`This = wxTreebook()`

`Pos = integer()`

`Option = {expand, boolean()}`

See [external documentation](#).

`isNodeExpanded(This, Pos) -> boolean()`

Types:

`This = wxTreebook()`

`Pos = integer()`

See [external documentation](#).

`hitTest(This, Pt) -> Result`

Types:

`Result = {Res::integer(), Flags::integer()}`

`This = wxTreebook()`

`Pt = {x::integer(), y::integer()}`

See [external documentation](#).

`insertPage(This, Pos, Page, Text) -> boolean()`

Types:

`This = wxTreebook()`

`Pos = integer()`

`Page = wxWindow:wxWindow()`

`Text = unicode:chardata()`

Equivalent to `insertPage(This, Pos, Page, Text, [])`.

`insertPage(This, Pos, Page, Text, Options:[Option]) -> boolean()`

Types:

```
This = wxTreebook()
Pos = integer()
Page = wxWindow:wxWindow()
Text = unicode:chardata()
Option = {bSelect, boolean()} | {imageId, integer()}
```

See external documentation.

`insertSubPage(This, Pos, Page, Text) -> boolean()`

Types:

```
This = wxTreebook()
Pos = integer()
Page = wxWindow:wxWindow()
Text = unicode:chardata()
```

Equivalent to `insertSubPage(This, Pos, Page, Text, [])`.

`insertSubPage(This, Pos, Page, Text, Options:[Option]) -> boolean()`

Types:

```
This = wxTreebook()
Pos = integer()
Page = wxWindow:wxWindow()
Text = unicode:chardata()
Option = {bSelect, boolean()} | {imageId, integer()}
```

See external documentation.

`setImageList(This, ImageList) -> ok`

Types:

```
This = wxTreebook()
ImageList = wxImageList:wxImageList()
```

See external documentation.

`setPageSize(This, Size) -> ok`

Types:

```
This = wxTreebook()
Size = {W::integer(), H::integer()}
```

See external documentation.

`setPageImage(This, N, ImageId) -> boolean()`

Types:

```
This = wxTreebook()
N = integer()
ImageId = integer()
```

See external documentation.

wxTreebook

`setPageText(This, N, StrText) -> boolean()`

Types:

```
This = wxTreebook()
N = integer()
StrText = unicode:chardata()
```

See [external documentation](#).

`setSelection(This, N) -> integer()`

Types:

```
This = wxTreebook()
N = integer()
```

See [external documentation](#).

`changeSelection(This, N) -> integer()`

Types:

```
This = wxTreebook()
N = integer()
```

See [external documentation](#).

`destroy(This::wxTreebook()) -> ok`

Destroys this object, do not use object again

wxUpdateUIEvent

Erlang module

See external documentation: **wxUpdateUIEvent**.

Use *wxEvtHandler:connect/3* with EventType:

update_ui

See also the message variant `#wxUpdateUI{}` event record type.

This class is derived (and can use functions) from:

wxCommandEvent

wxEvent

DATA TYPES

`wxUpdateUIEvent()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`canUpdate(Win) -> boolean()`

Types:

`Win = wxWindow:wxWindow()`

See **external documentation**.

`check(This, Check) -> ok`

Types:

`This = wxUpdateUIEvent()`

`Check = boolean()`

See **external documentation**.

`enable(This, Enable) -> ok`

Types:

`This = wxUpdateUIEvent()`

`Enable = boolean()`

See **external documentation**.

`show(This, Show) -> ok`

Types:

`This = wxUpdateUIEvent()`

`Show = boolean()`

See **external documentation**.

wxUpdateUIEvent

getChecked(This) -> boolean()

Types:

`This = wxUpdateUIEvent()`

See [external documentation](#).

getEnabled(This) -> boolean()

Types:

`This = wxUpdateUIEvent()`

See [external documentation](#).

getShown(This) -> boolean()

Types:

`This = wxUpdateUIEvent()`

See [external documentation](#).

getSetChecked(This) -> boolean()

Types:

`This = wxUpdateUIEvent()`

See [external documentation](#).

getSetEnabled(This) -> boolean()

Types:

`This = wxUpdateUIEvent()`

See [external documentation](#).

getSetShown(This) -> boolean()

Types:

`This = wxUpdateUIEvent()`

See [external documentation](#).

getSetText(This) -> unicode:charlist()

Types:

`This = wxUpdateUIEvent()`

See [external documentation](#).

getText(This) -> unicode:charlist()

Types:

`This = wxUpdateUIEvent()`

See [external documentation](#).

getMode() -> wx:wx_enum()

See [external documentation](#).

Res = ?wxUPDATE_UI_PROCESS_ALL | ?wxUPDATE_UI_PROCESS_SPECIFIED

`getUpdateInterval() -> integer()`

See **external documentation**.

`resetUpdateTime() -> ok`

See **external documentation**.

`setMode(Mode) -> ok`

Types:

`Mode = wx:wx_enum()`

See **external documentation**.

Mode = ?wxUPDATE_UI_PROCESS_ALL | ?wxUPDATE_UI_PROCESS_SPECIFIED

`setText(This, Text) -> ok`

Types:

`This = wxUpdateUIEvent()`

`Text = unicode:chardata()`

See **external documentation**.

`setUpdateInterval(UpdateInterval) -> ok`

Types:

`UpdateInterval = integer()`

See **external documentation**.

wxWindow

Erlang module

See external documentation: **wxWindow**.

This class is derived (and can use functions) from:
wxEvtHandler

DATA TYPES

`wxWindow()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxWindow()`

See **external documentation**.

`new(Parent, Id) -> wxWindow()`

Types:

```
Parent = wxWindow()
Id = integer()
```

Equivalent to `new(Parent, Id, [])`.

`new(Parent, Id, Options::[Option]) -> wxWindow()`

Types:

```
Parent = wxWindow()
Id = integer()
Option = {pos, {X::integer(), Y::integer()}} | {size, {W::integer(),
H::integer()}} | {style, integer()}
```

See **external documentation**.

`cacheBestSize(This, Size) -> ok`

Types:

```
This = wxWindow()
Size = {W::integer(), H::integer()}
```

See **external documentation**.

`captureMouse(This) -> ok`

Types:

```
This = wxWindow()
```

See **external documentation**.

center(This) -> ok

Types:

This = wxWindow()

Equivalent to *center(This, [])*.

center(This, Options::[Option]) -> ok

Types:

This = wxWindow()

Option = {dir, integer()}

See **external documentation**.

centerOnParent(This) -> ok

Types:

This = wxWindow()

Equivalent to *centerOnParent(This, [])*.

centerOnParent(This, Options::[Option]) -> ok

Types:

This = wxWindow()

Option = {dir, integer()}

See **external documentation**.

centre(This) -> ok

Types:

This = wxWindow()

Equivalent to *centre(This, [])*.

centre(This, Options::[Option]) -> ok

Types:

This = wxWindow()

Option = {dir, integer()}

See **external documentation**.

centreOnParent(This) -> ok

Types:

This = wxWindow()

Equivalent to *centreOnParent(This, [])*.

centreOnParent(This, Options::[Option]) -> ok

Types:

This = wxWindow()

Option = {dir, integer()}

See **external documentation**.

wxWindow

clearBackground(This) -> ok

Types:

`This = wxWindow()`

See [external documentation](#).

clientToScreen(This, Pt) -> {X::integer(), Y::integer()}

Types:

`This = wxWindow()`

`Pt = {X::integer(), Y::integer()}`

See [external documentation](#).

clientToScreen(This, X, Y) -> {X::integer(), Y::integer()}

Types:

`This = wxWindow()`

`X = integer()`

`Y = integer()`

See [external documentation](#).

close(This) -> boolean()

Types:

`This = wxWindow()`

Equivalent to `close(This, [])`.

close(This, Options:[Option]) -> boolean()

Types:

`This = wxWindow()`

`Option = {force, boolean()}`

See [external documentation](#).

convertDialogToPixels(This, Sz) -> {W::integer(), H::integer()}

Types:

`This = wxWindow()`

`Sz = {W::integer(), H::integer()}`

See [external documentation](#).

convertPixelsToDialog(This, Sz) -> {W::integer(), H::integer()}

Types:

`This = wxWindow()`

`Sz = {W::integer(), H::integer()}`

See [external documentation](#).

Destroy(This) -> boolean()

Types:

This = wxWindow()

See **external documentation**.

destroyChildren(This) -> boolean()

Types:

This = wxWindow()

See **external documentation**.

disable(This) -> boolean()

Types:

This = wxWindow()

See **external documentation**.

dragAcceptFiles(This, Accept) -> ok

Types:

This = wxWindow()

Accept = boolean()

See **external documentation**.

enable(This) -> boolean()

Types:

This = wxWindow()

Equivalent to *enable(This, [])*.

enable(This, Options::[Option]) -> boolean()

Types:

This = wxWindow()

Option = {enable, boolean()}

See **external documentation**.

findFocus() -> wxWindow()

See **external documentation**.

findWindow(This, Winid) -> wxWindow()

Types:

This = wxWindow()

Winid = integer()

See **external documentation**.

Also:

findWindow(This, Name) -> wxWindow() when
This::wxWindow(), Name::unicode:chardata().

wxWindow

`findWindowById(Winid) -> wxWindow()`

Types:

`Winid = integer()`

Equivalent to `findWindowById(Winid, [])`.

`findWindowById(Winid, Options:[Option]) -> wxWindow()`

Types:

`Winid = integer()`

`Option = {parent, wxWindow()}`

See [external documentation](#).

`findWindowByName(Name) -> wxWindow()`

Types:

`Name = unicode:chardata()`

Equivalent to `findWindowByName(Name, [])`.

`findWindowByName(Name, Options:[Option]) -> wxWindow()`

Types:

`Name = unicode:chardata()`

`Option = {parent, wxWindow()}`

See [external documentation](#).

`findWindowByLabel(Label) -> wxWindow()`

Types:

`Label = unicode:chardata()`

Equivalent to `findWindowByLabel(Label, [])`.

`findWindowByLabel(Label, Options:[Option]) -> wxWindow()`

Types:

`Label = unicode:chardata()`

`Option = {parent, wxWindow()}`

See [external documentation](#).

`fit(This) -> ok`

Types:

`This = wxWindow()`

See [external documentation](#).

`fitInside(This) -> ok`

Types:

`This = wxWindow()`

See [external documentation](#).

freeze(This) -> ok

Types:

This = wxWindow()

See **external documentation**.

getAcceleratorTable(This) -> wxAcceleratorTable:wxAcceleratorTable()

Types:

This = wxWindow()

See **external documentation**.

getBackgroundColour(This) -> wx:wx_colour4()

Types:

This = wxWindow()

See **external documentation**.

getBackgroundStyle(This) -> wx:wx_enum()

Types:

This = wxWindow()

See **external documentation**.

Res = ?wxBG_STYLE_SYSTEM | ?wxBG_STYLE_COLOUR | ?wxBG_STYLE_CUSTOM

getBestSize(This) -> {W::integer(), H::integer()}

Types:

This = wxWindow()

See **external documentation**.

getCaret(This) -> wxCaret:wxCaret()

Types:

This = wxWindow()

See **external documentation**.

getCapture() -> wxWindow()

See **external documentation**.

getCharHeight(This) -> integer()

Types:

This = wxWindow()

See **external documentation**.

getCharWidth(This) -> integer()

Types:

This = wxWindow()

See **external documentation**.

wxWindow

getChildren(This) -> [wxWindow()]

Types:

This = wxWindow()

See [external documentation](#).

getClientSize(This) -> {W::integer(), H::integer()}

Types:

This = wxWindow()

See [external documentation](#).

getContainingSizer(This) -> wxSizer:wxSizer()

Types:

This = wxWindow()

See [external documentation](#).

getCursor(This) -> wxCursor:wxCursor()

Types:

This = wxWindow()

See [external documentation](#).

getDropTarget(This) -> wx:wx_object()

Types:

This = wxWindow()

See [external documentation](#).

getEventHandler(This) -> wxEvtHandler:wxEvtHandler()

Types:

This = wxWindow()

See [external documentation](#).

getExtraStyle(This) -> integer()

Types:

This = wxWindow()

See [external documentation](#).

getFont(This) -> wxFont:wxFont()

Types:

This = wxWindow()

See [external documentation](#).

getForegroundColour(This) -> wx:wx_colour4()

Types:

This = wxWindow()

See **external documentation**.

getGrandParent(This) -> wxWindow()

Types:

This = wxWindow()

See **external documentation**.

getHandle(This) -> integer()

Types:

This = wxWindow()

See **external documentation**.

getHelpText(This) -> unicode:charlist()

Types:

This = wxWindow()

See **external documentation**.

getId(This) -> integer()

Types:

This = wxWindow()

See **external documentation**.

getLabel(This) -> unicode:charlist()

Types:

This = wxWindow()

See **external documentation**.

getMaxSize(This) -> {W::integer(), H::integer()}

Types:

This = wxWindow()

See **external documentation**.

getMinSize(This) -> {W::integer(), H::integer()}

Types:

This = wxWindow()

See **external documentation**.

getName(This) -> unicode:charlist()

Types:

This = wxWindow()

See **external documentation**.

wxWindow

getParent(This) -> wxWindow()

Types:

This = wxWindow()

See [external documentation](#).

getPosition(This) -> {X::integer(), Y::integer()}

Types:

This = wxWindow()

See [external documentation](#).

getRect(This) -> {X::integer(), Y::integer(), W::integer(), H::integer()}

Types:

This = wxWindow()

See [external documentation](#).

getScreenPosition(This) -> {X::integer(), Y::integer()}

Types:

This = wxWindow()

See [external documentation](#).

getScreenRect(This) -> {X::integer(), Y::integer(), W::integer(), H::integer()}

Types:

This = wxWindow()

See [external documentation](#).

getScrollPos(This, Orient) -> integer()

Types:

This = wxWindow()

Orient = integer()

See [external documentation](#).

getScrollRange(This, Orient) -> integer()

Types:

This = wxWindow()

Orient = integer()

See [external documentation](#).

getScrollThumb(This, Orient) -> integer()

Types:

This = wxWindow()

Orient = integer()

See [external documentation](#).

```
getSize(This) -> {W::integer(), H::integer()}
```

Types:

```
  This = wxWindow()
```

See **external documentation**.

```
getSizer(This) -> wxSizer:wxSizer()
```

Types:

```
  This = wxWindow()
```

See **external documentation**.

```
getTextExtent(This, String) -> Result
```

Types:

```
  Result = {X::integer(), Y::integer(), Descent::integer(),
```

```
  ExternalLeading::integer()}
```

```
  This = wxWindow()
```

```
  String = unicode:chardata()
```

Equivalent to *getTextExtent(This, String, [])*.

```
getTextExtent(This, String, Options:[Option]) -> Result
```

Types:

```
  Result = {X::integer(), Y::integer(), Descent::integer(),
```

```
  ExternalLeading::integer()}
```

```
  This = wxWindow()
```

```
  String = unicode:chardata()
```

```
  Option = {theFont, wxFont:wxFont()}
```

See **external documentation**.

```
getToolTip(This) -> wxToolTip:wxToolTip()
```

Types:

```
  This = wxWindow()
```

See **external documentation**.

```
getUpdateRegion(This) -> wxRegion:wxRegion()
```

Types:

```
  This = wxWindow()
```

See **external documentation**.

```
getVirtualSize(This) -> {W::integer(), H::integer()}
```

Types:

```
  This = wxWindow()
```

See **external documentation**.

wxWindow

getWindowSizeFlag(This) -> integer()

Types:

This = wxWindow()

See **external documentation**.

getWindowVariant(This) -> wx:wx_enum()

Types:

This = wxWindow()

See **external documentation**.

Res = ?wxWINDOW_VARIANT_NORMAL | ?wxWINDOW_VARIANT_SMALL | ?wxWINDOW_VARIANT_MINI | ?wxWINDOW_VARIANT_LARGE | ?wxWINDOW_VARIANT_MAX

hasCapture(This) -> boolean()

Types:

This = wxWindow()

See **external documentation**.

hasScrollbar(This, Orient) -> boolean()

Types:

This = wxWindow()

Orient = integer()

See **external documentation**.

hasTransparentBackground(This) -> boolean()

Types:

This = wxWindow()

See **external documentation**.

hide(This) -> boolean()

Types:

This = wxWindow()

See **external documentation**.

inheritAttributes(This) -> ok

Types:

This = wxWindow()

See **external documentation**.

initDialog(This) -> ok

Types:

This = wxWindow()

See **external documentation**.

invalidateBestSize(This) -> ok

Types:

This = wxWindow()

See [external documentation](#).

isEnabled(This) -> boolean()

Types:

This = wxWindow()

See [external documentation](#).

isExposed(This, Pt) -> boolean()

Types:

This = wxWindow()

Pt = {X::integer(), Y::integer()}

See [external documentation](#).

Also:

isExposed(This, Rect) -> boolean() when

This::wxWindow(), Rect::{X::integer(), Y::integer(), W::integer(), H::integer()}.

isExposed(This, X, Y) -> boolean()

Types:

This = wxWindow()

X = integer()

Y = integer()

See [external documentation](#).

isExposed(This, X, Y, W, H) -> boolean()

Types:

This = wxWindow()

X = integer()

Y = integer()

W = integer()

H = integer()

See [external documentation](#).

isRetained(This) -> boolean()

Types:

This = wxWindow()

See [external documentation](#).

isShown(This) -> boolean()

Types:

This = wxWindow()

wxWindow

See [external documentation](#).

`isTopLevel(This) -> boolean()`

Types:

`This = wxWindow()`

See [external documentation](#).

`layout(This) -> boolean()`

Types:

`This = wxWindow()`

See [external documentation](#).

`lineDown(This) -> boolean()`

Types:

`This = wxWindow()`

See [external documentation](#).

`lineUp(This) -> boolean()`

Types:

`This = wxWindow()`

See [external documentation](#).

`lower(This) -> ok`

Types:

`This = wxWindow()`

See [external documentation](#).

`makeModal(This) -> ok`

Types:

`This = wxWindow()`

Equivalent to `makeModal(This, [])`.

`makeModal(This, Options::[Option]) -> ok`

Types:

`This = wxWindow()`

`Option = {modal, boolean()}`

See [external documentation](#).

`move(This, Pt) -> ok`

Types:

`This = wxWindow()`

`Pt = {X::integer(), Y::integer()}`

Equivalent to `move(This, Pt, [])`.

```
move(This, X, Y) -> ok
```

Types:

```
This = wxWindow()
X = integer()
Y = integer()
```

See [external documentation](#).

Also:

```
move(This, Pt, [Option]) -> 'ok' when
This::wxWindow(), Pt::{X::integer(), Y::integer()},
Option :: {'flags', integer()}.
```

```
move(This, X, Y, Options::[Option]) -> ok
```

Types:

```
This = wxWindow()
X = integer()
Y = integer()
Option = {flags, integer()}
```

See [external documentation](#).

```
moveAfterInTabOrder(This, Win) -> ok
```

Types:

```
This = wxWindow()
Win = wxWindow()
```

See [external documentation](#).

```
moveBeforeInTabOrder(This, Win) -> ok
```

Types:

```
This = wxWindow()
Win = wxWindow()
```

See [external documentation](#).

```
navigate(This) -> boolean()
```

Types:

```
This = wxWindow()
```

Equivalent to *navigate(This, [])*.

```
navigate(This, Options::[Option]) -> boolean()
```

Types:

```
This = wxWindow()
Option = {flags, integer()}
```

See [external documentation](#).

```
pageDown(This) -> boolean()
```

Types:

wxWindow

This = wxWindow()

See [external documentation](#).

pageUp(This) -> boolean()

Types:

This = wxWindow()

See [external documentation](#).

popEventHandler(This) -> wxEvtHandler:wxEvtHandler()

Types:

This = wxWindow()

Equivalent to *popEventHandler(This, [])*.

popEventHandler(This, Options:[Option]) -> wxEvtHandler:wxEvtHandler()

Types:

This = wxWindow()

Option = {deleteHandler, boolean()}

See [external documentation](#).

popupMenu(This, Menu) -> boolean()

Types:

This = wxWindow()

Menu = wxMenu:wxMenu()

Equivalent to *popupMenu(This, Menu, [])*.

popupMenu(This, Menu, Options:[Option]) -> boolean()

Types:

This = wxWindow()

Menu = wxMenu:wxMenu()

Option = {pos, {X::integer(), Y::integer()}}

See [external documentation](#).

popupMenu(This, Menu, X, Y) -> boolean()

Types:

This = wxWindow()

Menu = wxMenu:wxMenu()

X = integer()

Y = integer()

See [external documentation](#).

raise(This) -> ok

Types:

This = wxWindow()

See [external documentation](#).

`refresh(This) -> ok`

Types:

`This = wxWindow()`

Equivalent to `refresh(This, [])`.

`refresh(This, Options::[Option]) -> ok`

Types:

`This = wxWindow()`

`Option = {eraseBackground, boolean()} | {rect, {X::integer(), Y::integer(), W::integer(), H::integer()}}`

See [external documentation](#).

`refreshRect(This, Rect) -> ok`

Types:

`This = wxWindow()`

`Rect = {X::integer(), Y::integer(), W::integer(), H::integer()}`

Equivalent to `refreshRect(This, Rect, [])`.

`refreshRect(This, Rect, Options::[Option]) -> ok`

Types:

`This = wxWindow()`

`Rect = {X::integer(), Y::integer(), W::integer(), H::integer()}`

`Option = {eraseBackground, boolean()}`

See [external documentation](#).

`releaseMouse(This) -> ok`

Types:

`This = wxWindow()`

See [external documentation](#).

`removeChild(This, Child) -> ok`

Types:

`This = wxWindow()`

`Child = wxWindow()`

See [external documentation](#).

`reparent(This, NewParent) -> boolean()`

Types:

`This = wxWindow()`

`NewParent = wxWindow()`

See [external documentation](#).

wxWindow

screenToClient(This) -> {X::integer(), Y::integer()}

Types:

This = `wxWindow()`

See [external documentation](#).

screenToClient(This, Pt) -> {X::integer(), Y::integer()}

Types:

This = `wxWindow()`

Pt = {X::integer(), Y::integer()}

See [external documentation](#).

scrollLines(This, Lines) -> boolean()

Types:

This = `wxWindow()`

Lines = `integer()`

See [external documentation](#).

scrollPages(This, Pages) -> boolean()

Types:

This = `wxWindow()`

Pages = `integer()`

See [external documentation](#).

scrollWindow(This, Dx, Dy) -> ok

Types:

This = `wxWindow()`

Dx = `integer()`

Dy = `integer()`

Equivalent to `scrollWindow(This, Dx, Dy, [])`.

scrollWindow(This, Dx, Dy, Options:[Option]) -> ok

Types:

This = `wxWindow()`

Dx = `integer()`

Dy = `integer()`

Option = {rect, {X::integer(), Y::integer(), W::integer(), H::integer()}}

See [external documentation](#).

setAcceleratorTable(This, Accel) -> ok

Types:

This = `wxWindow()`

Accel = `wxAcceleratorTable:wxAcceleratorTable()`

See [external documentation](#).

setAutoLayout(This, AutoLayout) -> ok

Types:

```
This = wxWindow()
AutoLayout = boolean()
```

See [external documentation](#).

setBackgroundColour(This, Colour) -> boolean()

Types:

```
This = wxWindow()
Colour = wx:wx_colour()
```

See [external documentation](#).

setBackgroundStyle(This, Style) -> boolean()

Types:

```
This = wxWindow()
Style = wx:wx_enum()
```

See [external documentation](#).

Style = ?wxBG_STYLE_SYSTEM | ?wxBG_STYLE_COLOUR | ?wxBG_STYLE_CUSTOM

setCaret(This, Caret) -> ok

Types:

```
This = wxWindow()
Caret = wxCaret:wxCaret()
```

See [external documentation](#).

setClientSize(This, Size) -> ok

Types:

```
This = wxWindow()
Size = {W::integer(), H::integer()}
```

See [external documentation](#).

Also:

setClientSize(This, Rect) -> 'ok' when

This::wxWindow(), Rect::{X::integer(), Y::integer(), W::integer(), H::integer()}.

setClientSize(This, Width, Height) -> ok

Types:

```
This = wxWindow()
Width = integer()
Height = integer()
```

See [external documentation](#).

setContainingSizer(This, Sizer) -> ok

Types:

```
This = wxWindow()
```

wxWindow

```
sizer = wxSizer:wxSizer()
```

See [external documentation](#).

```
setCursor(This, Cursor) -> boolean()
```

Types:

```
This = wxWindow()
```

```
Cursor = wxCursor:wxCursor()
```

See [external documentation](#).

```
setMaxSize(This, MaxSize) -> ok
```

Types:

```
This = wxWindow()
```

```
MaxSize = {W::integer(), H::integer()}
```

See [external documentation](#).

```
setMinSize(This, MinSize) -> ok
```

Types:

```
This = wxWindow()
```

```
MinSize = {W::integer(), H::integer()}
```

See [external documentation](#).

```
setOwnBackgroundColour(This, Colour) -> ok
```

Types:

```
This = wxWindow()
```

```
Colour = wx:wx_colour()
```

See [external documentation](#).

```
setOwnFont(This, Font) -> ok
```

Types:

```
This = wxWindow()
```

```
Font = wxFont:wxFont()
```

See [external documentation](#).

```
setOwnForegroundColour(This, Colour) -> ok
```

Types:

```
This = wxWindow()
```

```
Colour = wx:wx_colour()
```

See [external documentation](#).

```
setDropTarget(This, DropTarget) -> ok
```

Types:

```
This = wxWindow()
```

```
DropTarget = wx:wx_object()
```

See **external documentation**.

`setExtraStyle(This, ExStyle) -> ok`

Types:

```
This = wxWindow()
ExStyle = integer()
```

See **external documentation**.

`setFocus(This) -> ok`

Types:

```
This = wxWindow()
```

See **external documentation**.

`setFocusFromKbd(This) -> ok`

Types:

```
This = wxWindow()
```

See **external documentation**.

`setFont(This, Font) -> boolean()`

Types:

```
This = wxWindow()
Font = wx:wxFont()
```

See **external documentation**.

`setForegroundColour(This, Colour) -> boolean()`

Types:

```
This = wxWindow()
Colour = wx:wx_colour()
```

See **external documentation**.

`setHelpText(This, Text) -> ok`

Types:

```
This = wxWindow()
Text = unicode:chardata()
```

See **external documentation**.

`setId(This, Winid) -> ok`

Types:

```
This = wxWindow()
Winid = integer()
```

See **external documentation**.

wxWindow

`setLabel(This, Label) -> ok`

Types:

```
This = wxWindow()
Label = unicode:chardata()
```

See [external documentation](#).

`setName(This, Name) -> ok`

Types:

```
This = wxWindow()
Name = unicode:chardata()
```

See [external documentation](#).

`setPalette(This, Pal) -> ok`

Types:

```
This = wxWindow()
Pal = wxPalette:wxPalette()
```

See [external documentation](#).

`setScrollbar(This, Orient, Pos, ThumbVisible, Range) -> ok`

Types:

```
This = wxWindow()
Orient = integer()
Pos = integer()
ThumbVisible = integer()
Range = integer()
```

Equivalent to `setScrollbar(This, Orient, Pos, ThumbVisible, Range, [])`.

`setScrollbar(This, Orient, Pos, ThumbVisible, Range, Options:[Option]) -> ok`

Types:

```
This = wxWindow()
Orient = integer()
Pos = integer()
ThumbVisible = integer()
Range = integer()
Option = {refresh, boolean()}
```

See [external documentation](#).

`setScrollPos(This, Orient, Pos) -> ok`

Types:

```
This = wxWindow()
Orient = integer()
Pos = integer()
```

Equivalent to `setScrollPos(This, Orient, Pos, [])`.

`setScrollPos(This, Orient, Pos, Options::[Option]) -> ok`

Types:

```
This = wxWindow()
Orient = integer()
Pos = integer()
Option = {refresh, boolean()}
```

See [external documentation](#).

`setSize(This, Rect) -> ok`

Types:

```
This = wxWindow()
Rect = {X::integer(), Y::integer(), W::integer(), H::integer()}
```

See [external documentation](#).

Also:

`setSize(This, Size) -> 'ok' when`

`This::wxWindow(), Size::{W::integer(), H::integer()}.`

`setSize(This, Width, Height) -> ok`

Types:

```
This = wxWindow()
Width = integer()
Height = integer()
```

See [external documentation](#).

Also:

`setSize(This, Rect, [Option]) -> 'ok' when`

`This::wxWindow(), Rect::{X::integer(), Y::integer(), W::integer(), H::integer()},`

`Option :: {'sizeFlags', integer()}.`

`setSize(This, X, Y, Width, Height) -> ok`

Types:

```
This = wxWindow()
X = integer()
Y = integer()
Width = integer()
Height = integer()
```

Equivalent to `setSize(This, X, Y, Width, Height, []).`

`setSize(This, X, Y, Width, Height, Options::[Option]) -> ok`

Types:

```
This = wxWindow()
X = integer()
Y = integer()
Width = integer()
Height = integer()
```

wxWindow

```
Option = {sizeFlags, integer()}
```

See [external documentation](#).

`setSizeHints(This, MinSize) -> ok`

Types:

```
This = wxWindow()
MinSize = {W::integer(), H::integer()}
```

Equivalent to `setSizeHints(This, MinSize, []).`

`setSizeHints(This, MinW, MinH) -> ok`

Types:

```
This = wxWindow()
MinW = integer()
MinH = integer()
```

See [external documentation](#).

Also:

`setSizeHints(This, MinSize, [Option]) -> 'ok' when`
`This::wxWindow(), MinSize::{W::integer(), H::integer()},`
`Option :: {'maxSize', {W::integer(), H::integer()}}`
`| {'incSize', {W::integer(), H::integer()}}.`

`setSizeHints(This, MinW, MinH, Options::[Option]) -> ok`

Types:

```
This = wxWindow()
MinW = integer()
MinH = integer()
Option = {maxW, integer()} | {maxH, integer()} | {incW, integer()} |
{incH, integer()}
```

See [external documentation](#).

`setSizer(This, Sizer) -> ok`

Types:

```
This = wxWindow()
Sizer = wxSizer:wxSizer()
```

Equivalent to `setSizer(This, Sizer, []).`

`setSizer(This, Sizer, Options::[Option]) -> ok`

Types:

```
This = wxWindow()
Sizer = wxSizer:wxSizer()
Option = {deleteOld, boolean()}
```

See [external documentation](#).

`setSizerAndFit(This, Sizer) -> ok`

Types:

```
This = wxWindow()
Sizer = wxSizer:wxSizer()
```

Equivalent to `setSizerAndFit(This, Sizer, []).`

`setSizerAndFit(This, Sizer, Options::[Option]) -> ok`

Types:

```
This = wxWindow()
Sizer = wxSizer:wxSizer()
Option = {deleteOld, boolean()}
```

See **external documentation**.

`setThemeEnabled(This, EnableTheme) -> ok`

Types:

```
This = wxWindow()
EnableTheme = boolean()
```

See **external documentation**.

`setToolTip(This, Tip) -> ok`

Types:

```
This = wxWindow()
Tip = unicode:chardata()
```

See **external documentation**.

Also:

`setToolTip(This, Tip) -> 'ok'` when
This::wxWindow(), Tip::wxToolTip:wxToolTip().

`setVirtualSize(This, Size) -> ok`

Types:

```
This = wxWindow()
Size = {W::integer(), H::integer()}
```

See **external documentation**.

`setVirtualSize(This, X, Y) -> ok`

Types:

```
This = wxWindow()
X = integer()
Y = integer()
```

See **external documentation**.

`setVirtualSizeHints(This, MinSize) -> ok`

Types:

wxWindow

```
This = wxWindow()
MinSize = {W::integer(), H::integer()}}
```

Equivalent to `setVirtualSizeHints(This, MinSize, [])`.

`setVirtualSizeHints(This, MinW, MinH) -> ok`

Types:

```
This = wxWindow()
MinW = integer()
MinH = integer()
```

See [external documentation](#).

Also:

`setVirtualSizeHints(This, MinSize, [Option]) -> 'ok' when`
`This::wxWindow(), MinSize::{W::integer(), H::integer()},`
`Option :: {'maxSize', {W::integer(), H::integer()}}.`

`setVirtualSizeHints(This, MinW, MinH, Options::[Option]) -> ok`

Types:

```
This = wxWindow()
MinW = integer()
MinH = integer()
Option = {maxW, integer()} | {maxH, integer()}
```

See [external documentation](#).

`setWindowSize(This, Style) -> ok`

Types:

```
This = wxWindow()
Style = integer()
```

See [external documentation](#).

`setWindowStateFlag(This, Style) -> ok`

Types:

```
This = wxWindow()
Style = integer()
```

See [external documentation](#).

`setWindowVariant(This, Variant) -> ok`

Types:

```
This = wxWindow()
Variant = wx:wx_enum()
```

See [external documentation](#).

Variant = ?wxWINDOW_VARIANT_NORMAL | ?wxWINDOW_VARIANT_SMALL | ?wxWINDOW_VARIANT_MINI | ?wxWINDOW_VARIANT_LARGE | ?wxWINDOW_VARIANT_MAX

shouldInheritColours(This) -> boolean()

Types:

This = *wxWindow()*

See [external documentation](#).

show(This) -> boolean()

Types:

This = *wxWindow()*

Equivalent to *show(This, [])*.

show(This, Options::[Option]) -> boolean()

Types:

This = *wxWindow()*

Option = {*show*, boolean()}

See [external documentation](#).

thaw(This) -> ok

Types:

This = *wxWindow()*

See [external documentation](#).

transferDataFromWindow(This) -> boolean()

Types:

This = *wxWindow()*

See [external documentation](#).

transferDataToWindow(This) -> boolean()

Types:

This = *wxWindow()*

See [external documentation](#).

update(This) -> ok

Types:

This = *wxWindow()*

See [external documentation](#).

updateWindowUI(This) -> ok

Types:

This = *wxWindow()*

Equivalent to *updateWindowUI(This, [])*.

updateWindowUI(This, Options::[Option]) -> ok

Types:

wxWindow

```
This = wxWindow()
Option = {flags, integer()}
```

See [external documentation](#).

validate(This) -> boolean()

Types:

```
This = wxWindow()
```

See [external documentation](#).

warpPointer(This, X, Y) -> ok

Types:

```
This = wxWindow()
X = integer()
Y = integer()
```

See [external documentation](#).

setTransparent(This, Alpha) -> boolean()

Types:

```
This = wxWindow()
Alpha = integer()
```

See [external documentation](#).

canSetTransparent(This) -> boolean()

Types:

```
This = wxWindow()
```

See [external documentation](#).

isDoubleBuffered(This) -> boolean()

Types:

```
This = wxWindow()
```

See [external documentation](#).

setDoubleBuffered(This, On) -> ok

Types:

```
This = wxWindow()
On = boolean()
```

See [external documentation](#).

getContentScaleFactor(This) -> number()

Types:

```
This = wxWindow()
```

See [external documentation](#).

```
destroy(This::wxWindow()) -> ok
```

Destroys this object, do not use object again

wxWindowCreateEvent

Erlang module

See external documentation: **wxWindowCreateEvent**.

Use *wxEvtHandler:connect/3* with EventType:

create

See also the message variant `#wxWindowCreate{}` event record type.

This class is derived (and can use functions) from:

wxCommandEvent

wxEvent

DATA TYPES

`wxWindowCreateEvent()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

wxWindowDC

Erlang module

See external documentation: **wxWindowDC**.

This class is derived (and can use functions) from:
wxDC

DATA TYPES

`wxWindowDC()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxWindowDC()`

This function is deprecated: deprecated function not available in wxWidgets-2.9 and later

See [external documentation](#).

`new(Win) -> wxWindowDC()`

Types:

`Win = wxWindow:wxWindow()`

See [external documentation](#).

`destroy(This::wxWindowDC()) -> ok`

Destroys this object, do not use object again

wxWindowDestroyEvent

Erlang module

See external documentation: [wxWindowDestroyEvent](#).

Use `wxEvtHandler:connect/3` with EventType:

destroy

See also the message variant `#wxWindowDestroy{}` event record type.

This class is derived (and can use functions) from:

wxCommandEvent

wxEvtHandler

DATA TYPES

`wxWindowDestroyEvent()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

wxXmlResource

Erlang module

See external documentation: **wxXmlResource**.

DATA TYPES

`wxXmlResource()`

An object reference, The representation is internal and can be changed without notice. It can't be used for comparsion stored on disc or distributed for use on other nodes.

Exports

`new() -> wxXmlResource()`

Equivalent to `new([])`.

`new(Options::[Option]) -> wxXmlResource()`

Types:

`Option = {flags, integer()} | {domain, unicode:chardata()}`

See external documentation.

`new(Filemask, Options::[Option]) -> wxXmlResource()`

Types:

`Filemask = unicode:chardata()`

`Option = {flags, integer()} | {domain, unicode:chardata()}`

See external documentation.

`attachUnknownControl(This, Name, Control) -> boolean()`

Types:

`This = wxXmlResource()`

`Name = unicode:chardata()`

`Control = wxWindow:wxWindow()`

Equivalent to `attachUnknownControl(This, Name, Control, [])`.

`attachUnknownControl(This, Name, Control, Options::[Option]) -> boolean()`

Types:

`This = wxXmlResource()`

`Name = unicode:chardata()`

`Control = wxWindow:wxWindow()`

`Option = {parent, wxWindow:wxWindow()}`

See external documentation.

wxXmlResource

clearHandlers(This) -> ok

Types:

`This = wxXmlResource()`

See [external documentation](#).

compareVersion(This, Major, Minor, Release, Revision) -> integer()

Types:

`This = wxXmlResource()`
`Major = integer()`
`Minor = integer()`
`Release = integer()`
`Revision = integer()`

See [external documentation](#).

get() -> wxXmlResource()

See [external documentation](#).

getFlags(This) -> integer()

Types:

`This = wxXmlResource()`

See [external documentation](#).

getVersion(This) -> integer()

Types:

`This = wxXmlResource()`

See [external documentation](#).

getXRCID(Str_id) -> integer()

Types:

`Str_id = [unicode:chardata()]`

Equivalent to `getXRCID(Str_id, [])`.

getXRCID(Str_id, Options:[Option]) -> integer()

Types:

`Str_id = [unicode:chardata()]`
`Option = {value_if_not_found, integer()}`

See [external documentation](#).

initAllHandlers(This) -> ok

Types:

`This = wxXmlResource()`

See [external documentation](#).

```
load(This, Filemask) -> boolean()
```

Types:

```
This = wxXmlResource()  
Filemask = unicode:chardata()
```

See [external documentation](#).

```
loadBitmap(This, Name) -> wxBitmap:wxBitmap()
```

Types:

```
This = wxXmlResource()  
Name = unicode:chardata()
```

See [external documentation](#).

```
loadDialog(This, Parent, Name) -> wxDialog:wxDialog()
```

Types:

```
This = wxXmlResource()  
Parent = wxWindow:wxWindow()  
Name = unicode:chardata()
```

See [external documentation](#).

```
loadDialog(This, Dlg, Parent, Name) -> boolean()
```

Types:

```
This = wxXmlResource()  
Dlg = wxDialog:wxDialog()  
Parent = wxWindow:wxWindow()  
Name = unicode:chardata()
```

See [external documentation](#).

```
loadFrame(This, Parent, Name) -> wxFrame:wxFrame()
```

Types:

```
This = wxXmlResource()  
Parent = wxWindow:wxWindow()  
Name = unicode:chardata()
```

See [external documentation](#).

```
loadFrame(This, Frame, Parent, Name) -> boolean()
```

Types:

```
This = wxXmlResource()  
Frame = wxFrame:wxFrame()  
Parent = wxWindow:wxWindow()  
Name = unicode:chardata()
```

See [external documentation](#).

wxXmlResource

loadIcon(This, Name) -> wxIcon:wxIcon()

Types:

```
This = wxXmlResource()
Name = unicode:chardata()
```

See [external documentation](#).

loadMenu(This, Name) -> wxMenu:wxMenu()

Types:

```
This = wxXmlResource()
Name = unicode:chardata()
```

See [external documentation](#).

loadMenuBar(This, Name) -> wxMenuBar:wxMenuBar()

Types:

```
This = wxXmlResource()
Name = unicode:chardata()
```

See [external documentation](#).

loadMenuBar(This, Parent, Name) -> wxMenuBar:wxMenuBar()

Types:

```
This = wxXmlResource()
Parent = wxWindow:wxWindow()
Name = unicode:chardata()
```

See [external documentation](#).

loadPanel(This, Parent, Name) -> wxPanel:wxPanel()

Types:

```
This = wxXmlResource()
Parent = wxWindow:wxWindow()
Name = unicode:chardata()
```

See [external documentation](#).

loadPanel(This, Panel, Parent, Name) -> boolean()

Types:

```
This = wxXmlResource()
Panel = wxPanel:wxPanel()
Parent = wxWindow:wxWindow()
Name = unicode:chardata()
```

See [external documentation](#).

loadToolBar(This, Parent, Name) -> wxToolBar:wxToolBar()

Types:

```
This = wxXmlResource()
```

```
Parent = wxWindow:wxWindow()
Name = unicode:chardata()
```

See [external documentation](#).

```
set(Res) -> wxXmlResource()
```

Types:

```
Res = wxXmlResource()
```

See [external documentation](#).

```
setFlags(This, Flags) -> ok
```

Types:

```
This = wxXmlResource()
```

```
Flags = integer()
```

See [external documentation](#).

```
unload(This, Filename) -> boolean()
```

Types:

```
This = wxXmlResource()
```

```
Filename = unicode:chardata()
```

See [external documentation](#).

```
xrcctrl(Window, Name, Type) -> wx:wx_object()
```

Types:

```
Window = wxWindow:wxWindow()
```

```
Name = string()
```

```
Type = atom()
```

Looks up a control with Name in a window created with XML resources. You can use it to set/get values from controls.

The object is type casted to **Type**. Example:

```
Xrc = wxXmlResource:get(),
Dlg = wxDialog:new(),
true = wxXmlResource:loadDialog(Xrc, Dlg, Frame, "controls_dialog"),
LCtrl = xrcctrl(Dlg, "controls_listctrl", wxListCtrl),
wxListCtrl:insertColumn(LCtrl, 0, "Name", [{width, 200}]),
```

```
destroy(This::wxXmlResource()) -> ok
```

Destroys this object, do not use object again

wx_misc

Erlang module

See external documentation: **Misc.**

Exports

`getKeyState(Key) -> boolean()`

Types:

`Key = wx:wx_enum()`

See **external documentation**.

Key = ?WXK_BACK | ?WXK_TAB | ?WXK_RETURN | ?WXK_ESCAPE | ?WXK_SPACE | ?WXK_DELETE
| ?WXK_START | ?WXK_LBUTTON | ?WXK_RBUTTON | ?WXK_CANCEL | ?WXK_MBUTTON | ?
WXK_CLEAR | ?WXK_SHIFT | ?WXK_ALT | ?WXK_CONTROL | ?WXK_MENU | ?WXK_PAUSE
| ?WXK_CAPITAL | ?WXK_END | ?WXK_HOME | ?WXK_LEFT | ?WXK_UP | ?WXK_RIGHT | ?
WXK_DOWN | ?WXK_SELECT | ?WXK_PRINT | ?WXK_EXECUTE | ?WXK_SNAPSHOT | ?WXK_INSERT
| ?WXK_HELP | ?WXK_NUMPAD0 | ?WXK_NUMPAD1 | ?WXK_NUMPAD2 | ?WXK_NUMPAD3 | ?
WXK_NUMPAD4 | ?WXK_NUMPAD5 | ?WXK_NUMPAD6 | ?WXK_NUMPAD7 | ?WXK_NUMPAD8 | ?
WXK_NUMPAD9 | ?WXK_MULTIPLY | ?WXK_ADD | ?WXK_SEPARATOR | ?WXK_SUBTRACT | ?
WXK_DECIMAL | ?WXK_DIVIDE | ?WXK_F1 | ?WXK_F2 | ?WXK_F3 | ?WXK_F4 | ?WXK_F5 | ?
WXK_F6 | ?WXK_F7 | ?WXK_F8 | ?WXK_F9 | ?WXK_F10 | ?WXK_F11 | ?WXK_F12 | ?WXK_F13
| ?WXK_F14 | ?WXK_F15 | ?WXK_F16 | ?WXK_F17 | ?WXK_F18 | ?WXK_F19 | ?WXK_F20 | ?
WXK_F21 | ?WXK_F22 | ?WXK_F23 | ?WXK_F24 | ?WXK_NUMLOCK | ?WXK_SCROLL | ?WXK_PAGEUP
| ?WXK_PAGEDOWN | ?WXK_NUMPAD_SPACE | ?WXK_NUMPAD_TAB | ?WXK_NUMPAD_ENTER
| ?WXK_NUMPAD_F1 | ?WXK_NUMPAD_F2 | ?WXK_NUMPAD_F3 | ?WXK_NUMPAD_F4 | ?
WXK_NUMPAD_HOME | ?WXK_NUMPAD_LEFT | ?WXK_NUMPAD_UP | ?WXK_NUMPAD_RIGHT
| ?WXK_NUMPAD_DOWN | ?WXK_NUMPAD_PAGEUP | ?WXK_NUMPAD_PAGEDOWN | ?
WXK_NUMPAD_END | ?WXK_NUMPAD_BEGIN | ?WXK_NUMPAD_INSERT | ?WXK_NUMPAD_DELETE
| ?WXK_NUMPAD_EQUAL | ?WXK_NUMPAD_MULTIPLY | ?WXK_NUMPAD_ADD | ?
WXK_NUMPAD_SEPARATOR | ?WXK_NUMPAD_SUBTRACT | ?WXK_NUMPAD_DECIMAL
| ?WXK_NUMPAD_DIVIDE | ?WXK_WINDOWS_LEFT | ?WXK_WINDOWS_RIGHT | ?
WXK_WINDOWS_MENU | ?WXK_COMMAND | ?WXK_SPECIAL1 | ?WXK_SPECIAL2 | ?WXK_SPECIAL3
| ?WXK_SPECIAL4 | ?WXK_SPECIAL5 | ?WXK_SPECIAL6 | ?WXK_SPECIAL7 | ?WXK_SPECIAL8 | ?
WXK_SPECIAL9 | ?WXK_SPECIAL10 | ?WXK_SPECIAL11 | ?WXK_SPECIAL12 | ?WXK_SPECIAL13 | ?
WXK_SPECIAL14 | ?WXK_SPECIAL15 | ?WXK_SPECIAL16 | ?WXK_SPECIAL17 | ?WXK_SPECIAL18 | ?
WXK_SPECIAL19 | ?WXK_SPECIAL20

`getMousePosition() -> {X::integer(), Y::integer()}`

See **external documentation**.

`getMouseState() -> wx:wx_wxMouseState()`

See **external documentation**.

`setDetectableAutoRepeat(Flag) -> boolean()`

Types:

`Flag = boolean()`

See **external documentation**.

bell() -> ok

See **external documentation**.

findMenuItemId(Frame, MenuString, ItemString) -> integer()

Types:

```
Frame = wxFrame:wxFrame()  
MenuString = unicode:chardata()  
ItemString = unicode:chardata()
```

See **external documentation**.

genericFindWindowAtPoint(Pt) -> wxWindow:wxWindow()

Types:

```
Pt = {X::integer(), Y::integer()}
```

See **external documentation**.

findWindowAtPoint(Pt) -> wxWindow:wxWindow()

Types:

```
Pt = {X::integer(), Y::integer()}
```

See **external documentation**.

beginBusyCursor() -> ok

Equivalent to *beginBusyCursor([])*.

beginBusyCursor(Options::[Option]) -> ok

Types:

```
Option = {cursor, wxCursor:wxCursor()}
```

See **external documentation**.

endBusyCursor() -> ok

See **external documentation**.

isBusy() -> boolean()

See **external documentation**.

shutdown(WFlags) -> boolean()

Types:

```
WFlags = wx:wx_enum()
```

See **external documentation**.

WFlags = ?wxSHUTDOWN_POWEROFF | ?wxSHUTDOWN_REBOOT

`shell() -> boolean()`

Equivalent to `shell([])`.

`shell(Options::[Option]) -> boolean()`

Types:

`Option = {command, unicode:chardata()}`

See [external documentation](#).

`launchDefaultBrowser(Url) -> boolean()`

Types:

`Url = unicode:chardata()`

Equivalent to `launchDefaultBrowser(Url, [])`.

`launchDefaultBrowser(Url, Options::[Option]) -> boolean()`

Types:

`Url = unicode:chardata()`

`Option = {flags, integer()}`

See [external documentation](#).

`getEmailAddress() -> unicode:charlist()`

See [external documentation](#).

`getUserID() -> unicode:charlist()`

See [external documentation](#).

`getHomeDir() -> unicode:charlist()`

See [external documentation](#).

`newId() -> integer()`

See [external documentation](#).

`registerId(Id) -> ok`

Types:

`Id = integer()`

See [external documentation](#).

`getCurrentId() -> integer()`

See [external documentation](#).

`getOsDescription() -> unicode:charlist()`

See [external documentation](#).

`isPlatformLittleEndian() -> boolean()`

See **external documentation**.

`isPlatform64Bit() -> boolean()`

See **external documentation**.

`displaySize() -> {Width::integer(), Height::integer()}`

See **external documentation**.

`setCursor(Cursor) -> ok`

Types:

`Cursor = wxCursor:wxCursor()`

See **external documentation**.

glu

Erlang module

A part of the standard OpenGL Utility api. See www.khronos.org

Booleans are represented by integers 0 and 1.

DATA TYPES

enum() = non_neg_integer()

See wx/include/gl.hrl or glu.hrl

matrix() = matrix12() | matrix16()

matrix12() = {float(), float(), float()}

matrix16() = {float(), float(), float()}

mem() = binary() | tuple()

Memory block

vertex() = {float(), float(), float()}

Exports

tessellate(Normal, Vs:[Vs]) -> {Triangles, VertexPos}

Types:

```
Normal = vertex()
Vs = vertex()
Triangles = [integer()]
VertexPos = binary()
```

General purpose polygon triangulation. The first argument is the normal and the second a list of vertex positions. Returned is a list of indecies of the vertices and a binary (64bit native float) containing an array of vertex positions, it starts with the vertices in Vs and may contain newly created vertices in the end.

build1DMipmapLevels(Target, InternalFormat, Width, Format, Type, Level, Base, Max, Data) -> integer()

Types:

```
Target = enum()
InternalFormat = integer()
Width = integer()
Format = enum()
Type = enum()
Level = integer()
Base = integer()
```

```
Max = integer()
Data = binary()
```

Builds a subset of one-dimensional mipmap levels

glu:build1DMipmapLevels builds a subset of prefiltered one-dimensional texture maps of decreasing resolutions called a mipmap. This is used for the antialiasing of texture mapped primitives.

See [external](#) documentation.

```
build1DMipmaps(Target, InternalFormat, Width, Format, Type, Data) ->
integer()
```

Types:

```
Target = enum()
InternalFormat = integer()
Width = integer()
Format = enum()
Type = enum()
Data = binary()
```

Builds a one-dimensional mipmap

glu:build1DMipmaps builds a series of prefiltered one-dimensional texture maps of decreasing resolutions called a mipmap. This is used for the antialiasing of texture mapped primitives.

See [external](#) documentation.

```
build2DMipmapLevels(Target, InternalFormat, Width, Height, Format, Type,
Level, Base, Max, Data) -> integer()
```

Types:

```
Target = enum()
InternalFormat = integer()
Width = integer()
Height = integer()
Format = enum()
Type = enum()
Level = integer()
Base = integer()
Max = integer()
Data = binary()
```

Builds a subset of two-dimensional mipmap levels

glu:build2DMipmapLevels builds a subset of prefiltered two-dimensional texture maps of decreasing resolutions called a mipmap. This is used for the antialiasing of texture mapped primitives.

See [external](#) documentation.

```
build2DMipmaps(Target, InternalFormat, Width, Height, Format, Type, Data) ->
integer()
```

Types:

```
Target = enum()
```

```
InternalFormat = integer()
Width = integer()
Height = integer()
Format = enum()
Type = enum()
Data = binary()
```

Builds a two-dimensional mipmap

glu:build2DMipmaps builds a series of prefiltered two-dimensional texture maps of decreasing resolutions called a mipmap. This is used for the antialiasing of texture-mapped primitives.

See **external** documentation.

```
build3DMipmapLevels(Target, InternalFormat, Width, Height, Depth, Format,
Type, Level, Base, Max, Data) -> integer()
```

Types:

```
Target = enum()
InternalFormat = integer()
Width = integer()
Height = integer()
Depth = integer()
Format = enum()
Type = enum()
Level = integer()
Base = integer()
Max = integer()
Data = binary()
```

Builds a subset of three-dimensional mipmap levels

glu:build3DMipmapLevels builds a subset of prefiltered three-dimensional texture maps of decreasing resolutions called a mipmap. This is used for the antialiasing of texture mapped primitives.

See **external** documentation.

```
build3DMipmaps(Target, InternalFormat, Width, Height, Depth, Format, Type,
Data) -> integer()
```

Types:

```
Target = enum()
InternalFormat = integer()
Width = integer()
Height = integer()
Depth = integer()
Format = enum()
Type = enum()
Data = binary()
```

Builds a three-dimensional mipmap

`glu:build3DMipmaps` builds a series of prefiltered three-dimensional texture maps of decreasing resolutions called a mipmap. This is used for the antialiasing of texture-mapped primitives.

See **external** documentation.

`checkExtension(ExtName, ExtString) -> 0 | 1`

Types:

```
ExtName = string()
ExtString = string()
```

Determines if an extension name is supported

`glu:checkExtension` returns `?GLU_TRUE` if `ExtName` is supported otherwise `?GLU_FALSE` is returned.

See **external** documentation.

`cylinder(Quad, Base, Top, Height, Slices, Stacks) -> ok`

Types:

```
Quad = integer()
Base = float()
Top = float()
Height = float()
Slices = integer()
Stacks = integer()
```

Draw a cylinder

`glu:cylinder` draws a cylinder oriented along the `z` axis. The base of the cylinder is placed at `z = 0` and the top at `z=height`. Like a sphere, a cylinder is subdivided around the `z` axis into slices and along the `z` axis into stacks.

See **external** documentation.

`deleteQuadric(Quad) -> ok`

Types:

```
Quad = integer()
```

Destroy a quadrics object

`glu:deleteQuadric` destroys the quadrics object (created with `glu:newQuadric/0`) and frees any memory it uses. Once `glu:deleteQuadric` has been called, `Quad` cannot be used again.

See **external** documentation.

`disk(Quad, Inner, Outer, Slices, Loops) -> ok`

Types:

```
Quad = integer()
Inner = float()
Outer = float()
Slices = integer()
Loops = integer()
```

Draw a disk

glu

`glu:disk` renders a disk on the $z = 0$ plane. The disk has a radius of `Outer` and contains a concentric circular hole with a radius of `Inner`. If `Inner` is 0, then no hole is generated. The disk is subdivided around the z axis into slices (like pizza slices) and also about the z axis into rings (as specified by `Slices` and `Loops`, respectively).

See **external** documentation.

`errorString(Error) -> string()`

Types:

`Error = enum()`

Produce an error string from a GL or GLU error code

`glu:errorString` produces an error string from a GL or GLU error code. The string is in ISO Latin 1 format. For example, `glu:errorString(?GLU_OUT_OF_MEMORY)` returns the string `out of memory`.

See **external** documentation.

`getString(Name) -> string()`

Types:

`Name = enum()`

Return a string describing the GLU version or GLU extensions

`glu:getString` returns a pointer to a static string describing the GLU version or the GLU extensions that are supported.

See **external** documentation.

`lookAt(EyeX, EyeY, EyeZ, CenterX, CenterY, CenterZ, UpX, UpY, UpZ) -> ok`

Types:

```
EyeX = float()
EyeY = float()
EyeZ = float()
CenterX = float()
CenterY = float()
CenterZ = float()
UpX = float()
UpY = float()
UpZ = float()
```

Define a viewing transformation

`glu:lookAt` creates a viewing matrix derived from an eye point, a reference point indicating the center of the scene, and an UP vector.

See **external** documentation.

`newQuadric() -> integer()`

Create a quadrics object

`glu:newQuadric` creates and returns a pointer to a new quadrics object. This object must be referred to when calling quadrics rendering and control functions. A return value of 0 means that there is not enough memory to allocate the object.

See **external** documentation.

ortho2D(Left, Right, Bottom, Top) -> ok

Types:

```
Left = float()
Right = float()
Bottom = float()
Top = float()
```

Define a 2D orthographic projection matrix

glu:ortho2D sets up a two-dimensional orthographic viewing region. This is equivalent to calling *gl:ortho/6* with near=-1 and far=1.

See **external** documentation.

partialDisk(Quad, Inner, Outer, Slices, Loops, Start, Sweep) -> ok

Types:

```
Quad = integer()
Inner = float()
Outer = float()
Slices = integer()
Loops = integer()
Start = float()
Sweep = float()
```

Draw an arc of a disk

glu:partialDisk renders a partial disk on the z=0 plane. A partial disk is similar to a full disk, except that only the subset of the disk from Start through Start + Sweep is included (where 0 degrees is along the +f2yf axis, 90 degrees along the +x axis, 180 degrees along the -y axis, and 270 degrees along the -x axis).

See **external** documentation.

perspective(Fovy, Aspect, ZNear, ZFar) -> ok

Types:

```
Fovy = float()
Aspect = float()
ZNear = float()
ZFar = float()
```

Set up a perspective projection matrix

glu:perspective specifies a viewing frustum into the world coordinate system. In general, the aspect ratio in glu:perspective should match the aspect ratio of the associated viewport. For example, aspect=2.0 means the viewer's angle of view is twice as wide in x as it is in y. If the viewport is twice as wide as it is tall, it displays the image without distortion.

See **external** documentation.

pickMatrix(X, Y, DelX, DelY, Viewport) -> ok

Types:

```
X = float()
Y = float()
```

glu

```
DelX = float()
DelY = float()
Viewport = {integer(), integer(), integer(), integer()}
```

Define a picking region

glu:pickMatrix creates a projection matrix that can be used to restrict drawing to a small region of the viewport. This is typically useful to determine what objects are being drawn near the cursor. Use glu:pickMatrix to restrict drawing to a small region around the cursor. Then, enter selection mode (with gl:renderMode/1) and rerender the scene. All primitives that would have been drawn near the cursor are identified and stored in the selection buffer.

See **external** documentation.

```
project(ObjX, ObjY, ObjZ, Model, Proj, View) -> {integer(), WinX::float(),
WinY::float(), WinZ::float()}
```

Types:

```
ObjX = float()
ObjY = float()
ObjZ = float()
Model = matrix()
Proj = matrix()
View = {integer(), integer(), integer(), integer()}
```

Map object coordinates to window coordinates

glu:project transforms the specified object coordinates into window coordinates using Model , Proj , and View . The result is stored in WinX , WinY , and WinZ . A return value of ?GLU_TRUE indicates success, a return value of ?GLU_FALSE indicates failure.

See **external** documentation.

```
quadricDrawStyle(Quad, Draw) -> ok
```

Types:

```
Quad = integer()
Draw = enum()
```

Specify the draw style desired for quadrics

glu:quadricDrawStyle specifies the draw style for quadrics rendered with Quad . The legal values are as follows:

See **external** documentation.

```
quadricNormals(Quad, Normal) -> ok
```

Types:

```
Quad = integer()
Normal = enum()
```

Specify what kind of normals are desired for quadrics

glu:quadricNormals specifies what kind of normals are desired for quadrics rendered with Quad . The legal values are as follows:

See **external** documentation.

`quadricOrientation(Quad, Orientation) -> ok`

Types:

```
Quad = integer()
Orientation = enum()
```

Specify inside/outside orientation for quadrics

glu:quadricOrientation specifies what kind of orientation is desired for quadrics rendered with Quad . The Orientation values are as follows:

See **external** documentation.

`quadricTexture(Quad, Texture) -> ok`

Types:

```
Quad = integer()
Texture = 0 | 1
```

Specify if texturing is desired for quadrics

glu:quadricTexture specifies if texture coordinates should be generated for quadrics rendered with Quad . If the value of Texture is ?GLU_TRUE, then texture coordinates are generated, and if Texture is ?GLU_FALSE, they are not. The initial value is ?GLU_FALSE.

See **external** documentation.

`scaleImage(Format, WIn, HIn, TypeIn, DataIn, WOut, HOut, TypeOut, DataOut) -> integer()`

Types:

```
Format = enum()
WIn = integer()
HIn = integer()
TypeIn = enum()
DataIn = binary()
WOut = integer()
HOut = integer()
TypeOut = enum()
DataOut = mem()
```

Scale an image to an arbitrary size

glu:scaleImage scales a pixel image using the appropriate pixel store modes to unpack data from the source image and pack data into the destination image.

See **external** documentation.

`sphere(Quad, Radius, Slices, Stacks) -> ok`

Types:

```
Quad = integer()
Radius = float()
Slices = integer()
Stacks = integer()
```

Draw a sphere

glu

`glu:sphere` draws a sphere of the given radius centered around the origin. The sphere is subdivided around the z axis into slices and along the z axis into stacks (similar to lines of longitude and latitude).

See **external** documentation.

```
unProject(WinX, WinY, WinZ, Model, Proj, View) -> {integer(), ObjX::float(),  
ObjY::float(), ObjZ::float()}
```

Types:

```
WinX = float()  
WinY = float()  
WinZ = float()  
Model = matrix()  
Proj = matrix()  
View = {integer(), integer(), integer(), integer()}
```

Map window coordinates to object coordinates

`glu:unProject` maps the specified window coordinates into object coordinates using `Model`, `Proj`, and `View`. The result is stored in `ObjX`, `ObjY`, and `ObjZ`. A return value of `?GLU_TRUE` indicates success; a return value of `?GLU_FALSE` indicates failure.

See **external** documentation.

```
unProject4(WinX, WinY, WinZ, ClipW, Model, Proj, View, NearVal, FarVal) ->  
{integer(), ObjX::float(), ObjY::float(), ObjZ::float(), ObjW::float()}
```

Types:

```
WinX = float()  
WinY = float()  
WinZ = float()  
ClipW = float()  
Model = matrix()  
Proj = matrix()  
View = {integer(), integer(), integer(), integer()}  
NearVal = float()  
FarVal = float()
```

See `unProject/6`

gl

Erlang module

Standard OpenGL api. See www.khronos.org

Booleans are represented by integers 0 and 1.

DATA TYPES

`clamp()` = `float()`

0.0..1.0

`enum()` = `non_neg_integer()`

See `wx/include/gl.hrl`

`matrix()` = `matrix12()` | `matrix16()`

`matrix12()` = {`float()`, `float()`, `float()`}

`matrix16()` = {`float()`, `float()`, `float()`}

`mem()` = `binary()` | `tuple()`

Memory block

`offset()` = `non_neg_integer()`

Offset in memory block

Exports

`clearIndex(C) -> ok`

Types:

C = `float()`

Specify the clear value for the color index buffers

`gl:clearIndex` specifies the index used by `gl:clear/1` to clear the color index buffers. C is not clamped. Rather, C is converted to a fixed-point value with unspecified precision to the right of the binary point. The integer part of this value is then masked with 2 m-1, where m is the number of bits in a color index stored in the frame buffer.

See **external** documentation.

`clearColor(Red, Green, Blue, Alpha) -> ok`

Types:

Red = `clamp()`

Green = `clamp()`

Blue = `clamp()`

Alpha = `clamp()`

Specify clear values for the color buffers

`gl:clearColor` specifies the red, green, blue, and alpha values used by `gl:clear/1` to clear the color buffers. Values specified by `gl:clearColor` are clamped to the range [0 1].

See **external** documentation.

`clear(Mask) -> ok`

Types:

Mask = `integer()`

Clear buffers to preset values

`gl:clear` sets the bitplane area of the window to values previously selected by `gl:clearColor`, `gl:clearDepth`, and `gl:clearStencil`. Multiple color buffers can be cleared simultaneously by selecting more than one buffer at a time using `gl:drawBuffer/1`.

See **external** documentation.

`indexMask(Mask) -> ok`

Types:

Mask = `integer()`

Control the writing of individual bits in the color index buffers

`gl:indexMask` controls the writing of individual bits in the color index buffers. The least significant n bits of `Mask`, where n is the number of bits in a color index buffer, specify a mask. Where a 1 (one) appears in the mask, it's possible to write to the corresponding bit in the color index buffer (or buffers). Where a 0 (zero) appears, the corresponding bit is write-protected.

See **external** documentation.

`colorMask(Red, Green, Blue, Alpha) -> ok`

Types:

Red = 0 | 1
Green = 0 | 1
Blue = 0 | 1
Alpha = 0 | 1

Enable and disable writing of frame buffer color components

`gl:colorMask` and `gl:colorMaski` specify whether the individual color components in the frame buffer can or cannot be written. `gl:colorMaski` sets the mask for a specific draw buffer, whereas `gl:colorMask` sets the mask for all draw buffers. If `Red` is `?GL_FALSE`, for example, no change is made to the red component of any pixel in any of the color buffers, regardless of the drawing operation attempted.

See **external** documentation.

`alphaFunc(Func, Ref) -> ok`

Types:

Func = `enum()`
Ref = `clamp()`

Specify the alpha test function

The alpha test discards fragments depending on the outcome of a comparison between an incoming fragment's alpha value and a constant reference value. `gl:alphaFunc` specifies the reference value and the comparison function. The

comparison is performed only if alpha testing is enabled. By default, it is not enabled. (See *gl:enable/1* and *gl:enable/1* with argument ?GL_ALPHA_TEST.)

See **external** documentation.

blendFunc(Sfactor, Dfactor) -> ok

Types:

```
Sfactor = enum()
Dfactor = enum()
```

Specify pixel arithmetic

Pixels can be drawn using a function that blends the incoming (source) RGBA values with the RGBA values that are already in the frame buffer (the destination values). Blending is initially disabled. Use *gl:enable/1* and *gl:enable/1* with argument ?GL_BLEND to enable and disable blending.

See **external** documentation.

logicOp(Opcode) -> ok

Types:

```
Opcode = enum()
```

Specify a logical pixel operation for rendering

gl:logicOp specifies a logical operation that, when enabled, is applied between the incoming RGBA color and the RGBA color at the corresponding location in the frame buffer. To enable or disable the logical operation, call *gl:enable/1* and *gl:enable/1* using the symbolic constant ?GL_COLOR_LOGIC_OP. The initial value is disabled.

See **external** documentation.

cullFace(Mode) -> ok

Types:

```
Mode = enum()
```

Specify whether front- or back-facing facets can be culled

gl:cullFace specifies whether front- or back-facing facets are culled (as specified by mode) when facet culling is enabled. Facet culling is initially disabled. To enable and disable facet culling, call the *gl:enable/1* and *gl:enable/1* commands with the argument ?GL_CULL_FACE. Facets include triangles, quadrilaterals, polygons, and rectangles.

See **external** documentation.

frontFace(Mode) -> ok

Types:

```
Mode = enum()
```

Define front- and back-facing polygons

In a scene composed entirely of opaque closed surfaces, back-facing polygons are never visible. Eliminating these invisible polygons has the obvious benefit of speeding up the rendering of the image. To enable and disable elimination of back-facing polygons, call *gl:enable/1* and *gl:enable/1* with argument ?GL_CULL_FACE.

See **external** documentation.

pointSize(Size) -> ok

Types:

```
size = float()
```

Specify the diameter of rasterized points

gl:pointSize specifies the rasterized diameter of points. If point size mode is disabled (see *gl:enable/1* with parameter ?GL_PROGRAM_POINT_SIZE), this value will be used to rasterize points. Otherwise, the value written to the shading language built-in variable gl_PointSize will be used.

See **external** documentation.

```
lineWidth(Width) -> ok
```

Types:

```
Width = float()
```

Specify the width of rasterized lines

gl:lineWidth specifies the rasterized width of both aliased and antialiased lines. Using a line width other than 1 has different effects, depending on whether line antialiasing is enabled. To enable and disable line antialiasing, call *gl:enable/1* and *gl:enable/1* with argument ?GL_LINE_SMOOTH. Line antialiasing is initially disabled.

See **external** documentation.

```
lineStipple(Factor, Pattern) -> ok
```

Types:

```
Factor = integer()  
Pattern = integer()
```

Specify the line stipple pattern

Line stippling masks out certain fragments produced by rasterization; those fragments will not be drawn. The masking is achieved by using three parameters: the 16-bit line stipple pattern **Pattern**, the repeat count **Factor**, and an integer stipple counter **s**.

See **external** documentation.

```
polygonMode(Face, Mode) -> ok
```

Types:

```
Face = enum()  
Mode = enum()
```

Select a polygon rasterization mode

gl:polygonMode controls the interpretation of polygons for rasterization. **Face** describes which polygons **Mode** applies to: both front and back-facing polygons (?GL_FRONT_AND_BACK). The polygon mode affects only the final rasterization of polygons. In particular, a polygon's vertices are lit and the polygon is clipped and possibly culled before these modes are applied.

See **external** documentation.

```
polygonOffset(Factor, Units) -> ok
```

Types:

```
Factor = float()  
Units = float()
```

Set the scale and units used to calculate depth values

When `?GL_POLYGON_OFFSET_FILL`, `?GL_POLYGON_OFFSET_LINE`, or `?GL_POLYGON_OFFSET_POINT` is enabled, each fragment's depth value will be offset after it is interpolated from the depth values of the appropriate vertices. The value of the offset is $DZ \times r \times \text{units}$, where DZ is a measurement of the change in depth relative to the screen area of the polygon, and r is the smallest value that is guaranteed to produce a resolvable offset for a given implementation. The offset is added before the depth test is performed and before the value is written into the depth buffer.

See [external](#) documentation.

`polygonStipple(Mask) -> ok`

Types:

`Mask = binary()`

Set the polygon stippling pattern

Polygon stippling, like line stippling (see `gl:lineStipple/2`), masks out certain fragments produced by rasterization, creating a pattern. Stippling is independent of polygon antialiasing.

See [external](#) documentation.

`getPolygonStipple() -> binary()`

Return the polygon stipple pattern

`gl:getPolygonStipple` returns to `Pattern` a 32×32 polygon stipple pattern. The pattern is packed into memory as if `gl:readPixels/7` with both height and width of 32, type of `?GL_BITMAP`, and format of `?GL_COLOR_INDEX` were called, and the stipple pattern were stored in an internal 32×32 color index buffer. Unlike `gl:readPixels/7`, however, pixel transfer operations (shift, offset, pixel map) are not applied to the returned stipple image.

See [external](#) documentation.

`edgeFlag(Flag) -> ok`

Types:

`Flag = 0 | 1`

Flag edges as either boundary or nonboundary

Each vertex of a polygon, separate triangle, or separate quadrilateral specified between a `gl:'begin'/1` / `gl:'begin'/1` pair is marked as the start of either a boundary or nonboundary edge. If the current edge flag is true when the vertex is specified, the vertex is marked as the start of a boundary edge. Otherwise, the vertex is marked as the start of a nonboundary edge. `gl:edgeFlag` sets the edge flag bit to `?GL_TRUE` if `Flag` is `?GL_TRUE` and to `?GL_FALSE` otherwise.

See [external](#) documentation.

`edgeFlagv(Flag) -> ok`

Types:

`Flag = {Flag:::0 | 1}`

Equivalent to `edgeFlag(Flag)`.

`scissor(X, Y, Width, Height) -> ok`

Types:

`X = integer()`

```
Y = integer()
Width = integer()
Height = integer()
```

Define the scissor box

gl:scissor defines a rectangle, called the scissor box, in window coordinates. The first two arguments, X and Y , specify the lower left corner of the box. Width and Height specify the width and height of the box.

See **external** documentation.

```
clipPlane(Plane, Equation) -> ok
```

Types:

```
Plane = enum()
Equation = {float(), float(), float(), float()}}
```

Specify a plane against which all geometry is clipped

Geometry is always clipped against the boundaries of a six-plane frustum in x, y , and z. gl:clipPlane allows the specification of additional planes, not necessarily perpendicular to the x, y, or z axis, against which all geometry is clipped. To determine the maximum number of additional clipping planes, call *gl:getBooleanv/1* with argument ?GL_MAX_CLIP_PLANES. All implementations support at least six such clipping planes. Because the resulting clipping region is the intersection of the defined half-spaces, it is always convex.

See **external** documentation.

```
getClipPlane(Plane) -> {float(), float(), float(), float()}
```

Types:

```
Plane = enum()
```

Return the coefficients of the specified clipping plane

gl:getClipPlane returns in Equation the four coefficients of the plane equation for Plane .

See **external** documentation.

```
drawBuffer(Mode) -> ok
```

Types:

```
Mode = enum()
```

Specify which color buffers are to be drawn into

When colors are written to the frame buffer, they are written into the color buffers specified by gl:drawBuffer. The specifications are as follows:

See **external** documentation.

```
readBuffer(Mode) -> ok
```

Types:

```
Mode = enum()
```

Select a color buffer source for pixels

gl:readBuffer specifies a color buffer as the source for subsequent *gl:readPixels/7* , *gl:copyTexImage1D/7* , *gl:copyTexImage2D/8* , *gl:copyTexSubImage1D/6* , *gl:copyTexSubImage2D/8* , and *gl:copyTexSubImage3D/9* commands. Mode accepts one of twelve or more predefined values. In a fully configured system, ?GL_FRONT, ?GL_LEFT, and ?GL_FRONT_LEFT all name the front left buffer, ?GL_FRONT_RIGHT and ?GL_RIGHT name the

front right buffer, and `?GL_BACK_LEFT` and `?GL_BACK` name the back left buffer. Further more, the constants `?GL_COLOR_ATTACHMENTi` may be used to indicate the *i*th color attachment where *i* ranges from zero to the value of `?GL_MAX_COLOR_ATTACHMENTS` minus one.

See **external** documentation.

`enable(Cap) -> ok`

Types:

`Cap = enum()`

Enable or disable server-side GL capabilities

`gl:enable` and `gl:enable/1` enable and disable various capabilities. Use `gl:isEnabled/1` or `gl:getBooleanv/1` to determine the current setting of any capability. The initial value for each capability with the exception of `?GL_DITHER` and `?GL_MULTISAMPLE` is `?GL_FALSE`. The initial value for `?GL_DITHER` and `?GL_MULTISAMPLE` is `?GL_TRUE`.

See **external** documentation.

`disable(Cap) -> ok`

Types:

`Cap = enum()`

See `enable/1`

`isEnabled(Cap) -> 0 | 1`

Types:

`Cap = enum()`

Test whether a capability is enabled

`gl:isEnabled` returns `?GL_TRUE` if `Cap` is an enabled capability and returns `?GL_FALSE` otherwise. Boolean states that are indexed may be tested with `gl:isEnabledi`. For `gl:isEnabledi`, *Index* specifies the index of the capability to test. *Index* must be between zero and the count of indexed capabilities for `Cap`. Initially all capabilities except `?GL_DITHER` are disabled; `?GL_DITHER` is initially enabled.

See **external** documentation.

`enableClientState(Cap) -> ok`

Types:

`Cap = enum()`

Enable or disable client-side capability

`gl:enableClientState` and `gl:enableClientState/1` enable or disable individual client-side capabilities. By default, all client-side capabilities are disabled. Both `gl:enableClientState` and `gl:enableClientState/1` take a single argument, `Cap`, which can assume one of the following values:

See **external** documentation.

`disableClientState(Cap) -> ok`

Types:

`Cap = enum()`

See `enableClientState/1`

`getBooleanv(Pname) -> [0 | 1]`

Types:

`Pname = enum()`

Return the value or values of a selected parameter

These four commands return values for simple state variables in GL. Pname is a symbolic constant indicating the state variable to be returned, and Params is a pointer to an array of the indicated type in which to place the returned data.

See **external** documentation.

`getDoublev(Pname) -> [float()]`

Types:

`Pname = enum()`

See *getBooleanv/I*

`getFloatv(Pname) -> [float()]`

Types:

`Pname = enum()`

See *getBooleanv/I*

`getIntegerv(Pname) -> [integer()]`

Types:

`Pname = enum()`

See *getBooleanv/I*

`pushAttrib(Mask) -> ok`

Types:

`Mask = integer()`

Push and pop the server attribute stack

gl:pushAttrib takes one argument, a mask that indicates which groups of state variables to save on the attribute stack. Symbolic constants are used to set bits in the mask. Mask is typically constructed by specifying the bitwise-or of several of these constants together. The special mask ?GL_ALL_ATTRIB_BITS can be used to save all stackable states.

See **external** documentation.

`popAttrib() -> ok`

See *pushAttrib/I*

`pushClientAttrib(Mask) -> ok`

Types:

`Mask = integer()`

Push and pop the client attribute stack

gl:pushClientAttrib takes one argument, a mask that indicates which groups of client-state variables to save on the client attribute stack. Symbolic constants are used to set bits in the mask. Mask is

typically constructed by specifying the bitwise-or of several of these constants together. The special mask ?GL_CLIENT_ALL_ATTRIB_BITS can be used to save all stackable client state.

See **external** documentation.

popClientAttrib() -> ok

See *pushClientAttrib/I*

renderMode(Mode) -> integer()

Types:

Mode = enum()

Set rasterization mode

gl:renderMode sets the rasterization mode. It takes one argument, Mode , which can assume one of three predefined values:

See **external** documentation.

getError() -> enum()

Return error information

gl:getError returns the value of the error flag. Each detectable error is assigned a numeric code and symbolic name. When an error occurs, the error flag is set to the appropriate error code value. No other errors are recorded until gl:getError is called, the error code is returned, and the flag is reset to ?GL_NO_ERROR. If a call to gl:getError returns ?GL_NO_ERROR, there has been no detectable error since the last call to gl:getError , or since the GL was initialized.

See **external** documentation.

getString(Name) -> string()

Types:

Name = enum()

Return a string describing the current GL connection

gl:getString returns a pointer to a static string describing some aspect of the current GL connection. Name can be one of the following:

See **external** documentation.

finish() -> ok

Block until all GL execution is complete

gl:finish does not return until the effects of all previously called GL commands are complete. Such effects include all changes to GL state, all changes to connection state, and all changes to the frame buffer contents.

See **external** documentation.

flush() -> ok

Force execution of GL commands in finite time

Different GL implementations buffer commands in several different locations, including network buffers and the graphics accelerator itself. gl:flush empties all of these buffers, causing all issued commands to be executed as

quickly as they are accepted by the actual rendering engine. Though this execution may not be completed in any particular time period, it does complete in finite time.

See **external** documentation.

hint(Target, Mode) -> ok

Types:

Target = enum()
Mode = enum()

Specify implementation-specific hints

Certain aspects of GL behavior, when there is room for interpretation, can be controlled with hints. A hint is specified with two arguments. **Target** is a symbolic constant indicating the behavior to be controlled, and **Mode** is another symbolic constant indicating the desired behavior. The initial value for each **Target** is **?GL_DONT_CARE**. **Mode** can be one of the following:

See **external** documentation.

clearDepth(Depth) -> ok

Types:

Depth = clamp()

Specify the clear value for the depth buffer

gl:clearDepth specifies the depth value used by **gl:clear/1** to clear the depth buffer. Values specified by **gl:clearDepth** are clamped to the range [0 1].

See **external** documentation.

depthFunc(Func) -> ok

Types:

Func = enum()

Specify the value used for depth buffer comparisons

gl:depthFunc specifies the function used to compare each incoming pixel depth value with the depth value present in the depth buffer. The comparison is performed only if depth testing is enabled. (See **gl:enable/1** and **gl:enable/1** of **?GL_DEPTH_TEST**.)

See **external** documentation.

depthMask(Flag) -> ok

Types:

Flag = 0 | 1

Enable or disable writing into the depth buffer

gl:depthMask specifies whether the depth buffer is enabled for writing. If **Flag** is **?GL_FALSE**, depth buffer writing is disabled. Otherwise, it is enabled. Initially, depth buffer writing is enabled.

See **external** documentation.

depthRange(Near_val, Far_val) -> ok

Types:

Near_val = clamp()

```
Far_val = clamp()
```

Specify mapping of depth values from normalized device coordinates to window coordinates

After clipping and division by w, depth coordinates range from -1 to 1, corresponding to the near and far clipping planes. gl:depthRange specifies a linear mapping of the normalized depth coordinates in this range to window depth coordinates. Regardless of the actual depth buffer implementation, window coordinate depth values are treated as though they range from 0 through 1 (like color components). Thus, the values accepted by gl:depthRange are both clamped to this range before they are accepted.

See **external** documentation.

```
clearAccum(Red, Green, Blue, Alpha) -> ok
```

Types:

```
Red = float()
Green = float()
Blue = float()
Alpha = float()
```

Specify clear values for the accumulation buffer

gl:clearAccum specifies the red, green, blue, and alpha values used by *gl:clear/I* to clear the accumulation buffer.

See **external** documentation.

```
accum(Op, Value) -> ok
```

Types:

```
Op = enum()
Value = float()
```

Operate on the accumulation buffer

The accumulation buffer is an extended-range color buffer. Images are not rendered into it. Rather, images rendered into one of the color buffers are added to the contents of the accumulation buffer after rendering. Effects such as antialiasing (of points, lines, and polygons), motion blur, and depth of field can be created by accumulating images generated with different transformation matrices.

See **external** documentation.

```
matrixMode(Mode) -> ok
```

Types:

```
Mode = enum()
```

Specify which matrix is the current matrix

gl:matrixMode sets the current matrix mode. Mode can assume one of four values:

See **external** documentation.

```
ortho(Left, Right, Bottom, Top, Near_val, Far_val) -> ok
```

Types:

```
Left = float()
Right = float()
Bottom = float()
Top = float()
```

```
Near_val = float()
Far_val = float()
```

Multiply the current matrix with an orthographic matrix

gl:ortho describes a transformation that produces a parallel projection. The current matrix (see *gl:matrixMode/1*) is multiplied by this matrix and the result replaces the current matrix, as if *gl:multMatrixd/1* were called with the following matrix as its argument:

See **external** documentation.

```
frustum(Left, Right, Bottom, Top, Near_val, Far_val) -> ok
```

Types:

```
Left = float()
Right = float()
Bottom = float()
Top = float()
Near_val = float()
Far_val = float()
```

Multiply the current matrix by a perspective matrix

gl:frustum describes a perspective matrix that produces a perspective projection. The current matrix (see *gl:matrixMode/1*) is multiplied by this matrix and the result replaces the current matrix, as if *gl:multMatrixd/1* were called with the following matrix as its argument:

See **external** documentation.

```
viewport(X, Y, Width, Height) -> ok
```

Types:

```
X = integer()
Y = integer()
Width = integer()
Height = integer()
```

Set the viewport

gl:viewport specifies the affine transformation of x and y from normalized device coordinates to window coordinates. Let (x nd y nd) be normalized device coordinates. Then the window coordinates (x w y w) are computed as follows:

See **external** documentation.

```
pushMatrix() -> ok
```

Push and pop the current matrix stack

There is a stack of matrices for each of the matrix modes. In ?GL_MODELVIEW mode, the stack depth is at least 32. In the other modes, ?GL_COLOR, ?GL_PROJECTION, and ?GL_TEXTURE, the depth is at least 2. The current matrix in any mode is the matrix on the top of the stack for that mode.

See **external** documentation.

```
popMatrix() -> ok
```

See *pushMatrix/0*

`loadIdentity() -> ok`

Replace the current matrix with the identity matrix

`gl:loadIdentity` replaces the current matrix with the identity matrix. It is semantically equivalent to calling `gl:loadMatrixd/1` with the identity matrix

See **external** documentation.

`loadMatrixd(M) -> ok`

Types:

`M = matrix()`

Replace the current matrix with the specified matrix

`gl:loadMatrix` replaces the current matrix with the one whose elements are specified by `M`. The current matrix is the projection matrix, modelview matrix, or texture matrix, depending on the current matrix mode (see `gl:matrixMode/1`).

See **external** documentation.

`loadMatrixf(M) -> ok`

Types:

`M = matrix()`

See `loadMatrixd/1`

`multMatrixd(M) -> ok`

Types:

`M = matrix()`

Multiply the current matrix with the specified matrix

`gl:multMatrix` multiplies the current matrix with the one specified using `M`, and replaces the current matrix with the product.

See **external** documentation.

`multMatrixf(M) -> ok`

Types:

`M = matrix()`

See `multMatrixd/1`

`rotated(Angle, X, Y, Z) -> ok`

Types:

```
Angle = float()
X = float()
Y = float()
Z = float()
```

Multiply the current matrix by a rotation matrix

`gl:rotate` produces a rotation of `Angle` degrees around the vector (`x y z`). The current matrix (see `gl:matrixMode/1`) is multiplied by a rotation matrix with the product replacing the current matrix, as if `gl:multMatrixd/1` were called with the following matrix as its argument:

See **external** documentation.

rotatef(X, Y, Z) -> ok

Types:

```
Angle = float()  
X = float()  
Y = float()  
Z = float()
```

See *rotated/4*

scaled(X, Y, Z) -> ok

Types:

```
X = float()  
Y = float()  
Z = float()
```

Multiply the current matrix by a general scaling matrix

gl:scale produces a nonuniform scaling along the x, y, and z axes. The three parameters indicate the desired scale factor along each of the three axes.

See **external** documentation.

scalef(X, Y, Z) -> ok

Types:

```
X = float()  
Y = float()  
Z = float()
```

See *scaled/3*

translated(X, Y, Z) -> ok

Types:

```
X = float()  
Y = float()  
Z = float()
```

Multiply the current matrix by a translation matrix

gl:translate produces a translation by (x y z). The current matrix (see *gl:matrixMode/1*) is multiplied by this translation matrix, with the product replacing the current matrix, as if *gl:multMatrixd/1* were called with the following matrix for its argument:

See **external** documentation.

translatef(X, Y, Z) -> ok

Types:

```
X = float()  
Y = float()  
Z = float()
```

See *translated/3*

isList(List) -> 0 | 1

Types:

List = integer()

Determine if a name corresponds to a display list

gl:isList returns ?GL_TRUE if List is the name of a display list and returns ?GL_FALSE if it is not, or if an error occurs.

See **external** documentation.

deleteLists(List, Range) -> ok

Types:

List = integer()

Range = integer()

Delete a contiguous group of display lists

gl:deleteLists causes a contiguous group of display lists to be deleted. List is the name of the first display list to be deleted, and Range is the number of display lists to delete. All display lists d with list<= d<= list+range-1 are deleted.

See **external** documentation.

genLists(Range) -> integer()

Types:

Range = integer()

Generate a contiguous set of empty display lists

gl:genLists has one argument, Range . It returns an integer n such that Range contiguous empty display lists, named n, n+1, ..., n+range-1, are created. If Range is 0, if there is no group of Range contiguous names available, or if any error is generated, no display lists are generated, and 0 is returned.

See **external** documentation.

newList(List, Mode) -> ok

Types:

List = integer()

Mode = enum()

Create or replace a display list

Display lists are groups of GL commands that have been stored for subsequent execution. Display lists are created with gl:newList . All subsequent commands are placed in the display list, in the order issued, until gl:endList/0 is called.

See **external** documentation.

endList() -> ok

glBeginList

See *external* documentation.

gl

callList(List) -> ok

Types:

List = integer()

Execute a display list

gl:callList causes the named display list to be executed. The commands saved in the display list are executed in order, just as if they were called without using a display list. If List has not been defined as a display list, gl:callList is ignored.

See **external** documentation.

callLists(Lists) -> ok

Types:

Lists = [integer()]

Execute a list of display lists

gl:callLists causes each display list in the list of names passed as Lists to be executed. As a result, the commands saved in each display list are executed in order, just as if they were called without using a display list. Names of display lists that have not been defined are ignored.

See **external** documentation.

listBase(Base) -> ok

Types:

Base = integer()

set the display-list base for

gl:callLists/I

gl:callLists/I specifies an array of offsets. Display-list names are generated by adding Base to each offset. Names that reference valid display lists are executed; the others are ignored.

See **external** documentation.

begin(Mode) -> ok

Types:

Mode = enum()

Delimit the vertices of a primitive or a group of like primitives

gl: 'begin' and *gl:'begin'/I* delimit the vertices that define a primitive or a group of like primitives. gl: 'begin' accepts a single argument that specifies in which of ten ways the vertices are interpreted. Taking n as an integer count starting at one, and N as the total number of vertices specified, the interpretations are as follows:

See **external** documentation.

end() -> ok

See '*begin/I*

vertex2d(X, Y) -> ok

Types:

X = float()

Y = float()

Specify a vertex

gl:vertex commands are used within *gl:'begin'/1* / *gl:'begin'/1* pairs to specify point, line, and polygon vertices. The current color, normal, texture coordinates, and fog coordinate are associated with the vertex when `gl:vertex` is called.

See **external** documentation.

`vertex2f(X, Y) -> ok`

Types:

```
X = float()  
Y = float()
```

See *vertex2d/2*

`vertex2i(X, Y) -> ok`

Types:

```
X = integer()  
Y = integer()
```

See *vertex2d/2*

`vertex2s(X, Y) -> ok`

Types:

```
X = integer()  
Y = integer()
```

See *vertex2d/2*

`vertex3d(X, Y, Z) -> ok`

Types:

```
X = float()  
Y = float()  
Z = float()
```

See *vertex2d/2*

`vertex3f(X, Y, Z) -> ok`

Types:

```
X = float()  
Y = float()  
Z = float()
```

See *vertex2d/2*

`vertex3i(X, Y, Z) -> ok`

Types:

```
X = integer()  
Y = integer()  
Z = integer()
```

See *vertex2d/2*

vertex3s(X, Y, Z) -> ok

Types:

```
X = integer()  
Y = integer()  
Z = integer()
```

See *vertex2d/2*

vertex4d(X, Y, Z, W) -> ok

Types:

```
X = float()  
Y = float()  
Z = float()  
W = float()
```

See *vertex2d/2*

vertex4f(X, Y, Z, W) -> ok

Types:

```
X = float()  
Y = float()  
Z = float()  
W = float()
```

See *vertex2d/2*

vertex4i(X, Y, Z, W) -> ok

Types:

```
X = integer()  
Y = integer()  
Z = integer()  
W = integer()
```

See *vertex2d/2*

vertex4s(X, Y, Z, W) -> ok

Types:

```
X = integer()  
Y = integer()  
Z = integer()  
W = integer()
```

See *vertex2d/2*

vertex2dv(V) -> ok

Types:

```
v = {X::float(), Y::float()}
```

Equivalent to *vertex2d(X, Y)*.

vertex2fv(V) -> ok

Types:

```
v = {X::float(), Y::float()}
```

Equivalent to *vertex2f(X, Y)*.

vertex2iv(V) -> ok

Types:

```
v = {X::integer(), Y::integer()}
```

Equivalent to *vertex2i(X, Y)*.

vertex2sv(V) -> ok

Types:

```
v = {X::integer(), Y::integer()}
```

Equivalent to *vertex2s(X, Y)*.

vertex3dv(V) -> ok

Types:

```
v = {X::float(), Y::float(), Z::float()}
```

Equivalent to *vertex3d(X, Y, Z)*.

vertex3fv(V) -> ok

Types:

```
v = {X::float(), Y::float(), Z::float()}
```

Equivalent to *vertex3f(X, Y, Z)*.

vertex3iv(V) -> ok

Types:

```
v = {X::integer(), Y::integer(), Z::integer()}
```

Equivalent to *vertex3i(X, Y, Z)*.

vertex3sv(V) -> ok

Types:

```
v = {X::integer(), Y::integer(), Z::integer()}
```

Equivalent to *vertex3s(X, Y, Z)*.

vertex4dv(V) -> ok

Types:

```
v = {X::float(), Y::float(), Z::float(), W::float()}
```

Equivalent to *vertex4d(X, Y, Z, W)*.

```
vertex4fv(V) -> ok
```

Types:

```
  V = {X::float(), Y::float(), Z::float(), W::float()}
```

Equivalent to *vertex4f(X, Y, Z, W)*.

```
vertex4iv(V) -> ok
```

Types:

```
  V = {X::integer(), Y::integer(), Z::integer(), W::integer()}
```

Equivalent to *vertex4i(X, Y, Z, W)*.

```
vertex4sv(V) -> ok
```

Types:

```
  V = {X::integer(), Y::integer(), Z::integer(), W::integer()}
```

Equivalent to *vertex4s(X, Y, Z, W)*.

```
normal3b(Nx, Ny, Nz) -> ok
```

Types:

```
  Nx = integer()  
  Ny = integer()  
  Nz = integer()
```

Set the current normal vector

The current normal is set to the given coordinates whenever `gl:normal` is issued. Byte, short, or integer arguments are converted to floating-point format with a linear mapping that maps the most positive representable integer value to 1.0 and the most negative representable integer value to -1.0.

See **external** documentation.

```
normal3d(Nx, Ny, Nz) -> ok
```

Types:

```
  Nx = float()  
  Ny = float()  
  Nz = float()
```

See *normal3b/3*

```
normal3f(Nx, Ny, Nz) -> ok
```

Types:

```
  Nx = float()  
  Ny = float()  
  Nz = float()
```

See *normal3b/3*

```
normal3i(Nx, Ny, Nz) -> ok
```

Types:

```
  Nx = integer()
```

```
Ny = integer()
Nz = integer()
```

See *normal3b/3*

normal3s(Nx, Ny, Nz) -> ok

Types:

```
Nx = integer()
Ny = integer()
Nz = integer()
```

See *normal3b/3*

normal3bv(V) -> ok

Types:

```
V = {Nx::integer(), Ny::integer(), Nz::integer()}
```

Equivalent to *normal3b(Nx, Ny, Nz)*.

normal3dv(V) -> ok

Types:

```
V = {Nx::float(), Ny::float(), Nz::float()}
```

Equivalent to *normal3d(Nx, Ny, Nz)*.

normal3fv(V) -> ok

Types:

```
V = {Nx::float(), Ny::float(), Nz::float()}
```

Equivalent to *normal3f(Nx, Ny, Nz)*.

normal3iv(V) -> ok

Types:

```
V = {Nx::integer(), Ny::integer(), Nz::integer()}
```

Equivalent to *normal3i(Nx, Ny, Nz)*.

normal3sv(V) -> ok

Types:

```
V = {Nx::integer(), Ny::integer(), Nz::integer()}
```

Equivalent to *normal3s(Nx, Ny, Nz)*.

indexd(C) -> ok

Types:

```
C = float()
```

Set the current color index

gl:index updates the current (single-valued) color index. It takes one argument, the new value for the current color index.

See **external** documentation.

indexf(C) -> ok

Types:

C = float()

See *indexd/1*

indexi(C) -> ok

Types:

C = integer()

See *indexd/1*

indexes(C) -> ok

Types:

C = integer()

See *indexd/1*

indexub(C) -> ok

Types:

C = integer()

See *indexd/1*

indexdv(C) -> ok

Types:

C = {C::float()}

Equivalent to *indexd(C)*.

indexfv(C) -> ok

Types:

C = {C::float()}

Equivalent to *indexf(C)*.

indexiv(C) -> ok

Types:

C = {C::integer()}

Equivalent to *indexi(C)*.

indexsv(C) -> ok

Types:

C = {C::integer()}

Equivalent to *indexes(C)*.

`indexubv(C) -> ok`

Types:

```
Red = integer()
```

Equivalent to *indexub(C)*.

`color3b(Red, Green, Blue) -> ok`

Types:

```
Red = integer()
```

```
Green = integer()
```

```
Blue = integer()
```

Set the current color

The GL stores both a current single-valued color index and a current four-valued RGBA color. `gl:color` sets a new four-valued RGBA color. `gl:color` has two major variants: `gl:color3` and `gl:color4`. `gl:color3` variants specify new red, green, and blue values explicitly and set the current alpha value to 1.0 (full intensity) implicitly. `gl:color4` variants specify all four color components explicitly.

See **external** documentation.

`color3d(Red, Green, Blue) -> ok`

Types:

```
Red = float()
```

```
Green = float()
```

```
Blue = float()
```

See *color3b/3*

`color3f(Red, Green, Blue) -> ok`

Types:

```
Red = float()
```

```
Green = float()
```

```
Blue = float()
```

See *color3b/3*

`color3i(Red, Green, Blue) -> ok`

Types:

```
Red = integer()
```

```
Green = integer()
```

```
Blue = integer()
```

See *color3b/3*

`color3s(Red, Green, Blue) -> ok`

Types:

```
Red = integer()
```

```
Green = integer()
```

```
Blue = integer()
```

See *color3b/3*

color3ub(Red, Green, Blue) -> ok

Types:

```
Red = integer()  
Green = integer()  
Blue = integer()
```

See *color3b/3*

color3ui(Red, Green, Blue) -> ok

Types:

```
Red = integer()  
Green = integer()  
Blue = integer()
```

See *color3b/3*

color3us(Red, Green, Blue) -> ok

Types:

```
Red = integer()  
Green = integer()  
Blue = integer()
```

See *color3b/3*

color4b(Red, Green, Blue, Alpha) -> ok

Types:

```
Red = integer()  
Green = integer()  
Blue = integer()  
Alpha = integer()
```

See *color3b/3*

color4d(Red, Green, Blue, Alpha) -> ok

Types:

```
Red = float()  
Green = float()  
Blue = float()  
Alpha = float()
```

See *color3b/3*

color4f(Red, Green, Blue, Alpha) -> ok

Types:

```
Red = float()  
Green = float()
```

```
Blue = float()
Alpha = float()
```

See *color3b/3*

color4i(Red, Green, Blue, Alpha) -> ok

Types:

```
Red = integer()
Green = integer()
Blue = integer()
Alpha = integer()
```

See *color3b/3*

color4s(Red, Green, Blue, Alpha) -> ok

Types:

```
Red = integer()
Green = integer()
Blue = integer()
Alpha = integer()
```

See *color3b/3*

color4ub(Red, Green, Blue, Alpha) -> ok

Types:

```
Red = integer()
Green = integer()
Blue = integer()
Alpha = integer()
```

See *color3b/3*

color4ui(Red, Green, Blue, Alpha) -> ok

Types:

```
Red = integer()
Green = integer()
Blue = integer()
Alpha = integer()
```

See *color3b/3*

color4us(Red, Green, Blue, Alpha) -> ok

Types:

```
Red = integer()
Green = integer()
Blue = integer()
Alpha = integer()
```

See *color3b/3*

color3bv(V) -> ok

Types:

`v = {Red::integer(), Green::integer(), Blue::integer()}`

Equivalent to *color3b*(*Red*, *Green*, *Blue*).

color3dv(V) -> ok

Types:

`v = {Red::float(), Green::float(), Blue::float()}`

Equivalent to *color3d*(*Red*, *Green*, *Blue*).

color3fv(V) -> ok

Types:

`v = {Red::float(), Green::float(), Blue::float()}`

Equivalent to *color3f*(*Red*, *Green*, *Blue*).

color3iv(V) -> ok

Types:

`v = {Red::integer(), Green::integer(), Blue::integer()}`

Equivalent to *color3i*(*Red*, *Green*, *Blue*).

color3sv(V) -> ok

Types:

`v = {Red::integer(), Green::integer(), Blue::integer()}`

Equivalent to *color3s*(*Red*, *Green*, *Blue*).

color3ubv(V) -> ok

Types:

`v = {Red::integer(), Green::integer(), Blue::integer()}`

Equivalent to *color3ub*(*Red*, *Green*, *Blue*).

color3uiv(V) -> ok

Types:

`v = {Red::integer(), Green::integer(), Blue::integer()}`

Equivalent to *color3ui*(*Red*, *Green*, *Blue*).

color3usv(V) -> ok

Types:

`v = {Red::integer(), Green::integer(), Blue::integer()}`

Equivalent to *color3us*(*Red*, *Green*, *Blue*).

color4bv(V) -> ok

Types:

`v = {Red::integer(), Green::integer(), Blue::integer(), Alpha::integer()}`

Equivalent to *color4b*(*Red*, *Green*, *Blue*, *Alpha*).

color4dv(V) -> ok

Types:

```
V = {Red::float(), Green::float(), Blue::float(), Alpha::float()}
```

Equivalent to *color4d*(*Red*, *Green*, *Blue*, *Alpha*).

color4fv(V) -> ok

Types:

```
V = {Red::float(), Green::float(), Blue::float(), Alpha::float()}
```

Equivalent to *color4f*(*Red*, *Green*, *Blue*, *Alpha*).

color4iv(V) -> ok

Types:

```
V = {Red::integer(), Green::integer(), Blue::integer(), Alpha::integer()}
```

Equivalent to *color4i*(*Red*, *Green*, *Blue*, *Alpha*).

color4sv(V) -> ok

Types:

```
V = {Red::integer(), Green::integer(), Blue::integer(), Alpha::integer()}
```

Equivalent to *color4s*(*Red*, *Green*, *Blue*, *Alpha*).

color4ubv(V) -> ok

Types:

```
V = {Red::integer(), Green::integer(), Blue::integer(), Alpha::integer()}
```

Equivalent to *color4ub*(*Red*, *Green*, *Blue*, *Alpha*).

color4uiv(V) -> ok

Types:

```
V = {Red::integer(), Green::integer(), Blue::integer(), Alpha::integer()}
```

Equivalent to *color4ui*(*Red*, *Green*, *Blue*, *Alpha*).

color4usv(V) -> ok

Types:

```
V = {Red::integer(), Green::integer(), Blue::integer(), Alpha::integer()}
```

Equivalent to *color4us*(*Red*, *Green*, *Blue*, *Alpha*).

texCoord1d(S) -> ok

Types:

```
S = float()
```

Set the current texture coordinates

gl:texCoord specifies texture coordinates in one, two, three, or four dimensions. gl:texCoord1 sets the current texture coordinates to (s 0 0 1); a call to gl:texCoord2 sets them to (s t 0 1). Similarly, gl:texCoord3 specifies the texture coordinates as (s t r 1), and gl:texCoord4 defines all four components explicitly as (s t r q).

See **external** documentation.

texCoord1f(S) -> ok

Types:

s = float()

See *texCoordId/1*

texCoord1i(S) -> ok

Types:

s = integer()

See *texCoordId/1*

texCoord1s(S) -> ok

Types:

s = integer()

See *texCoordId/1*

texCoord2d(S, T) -> ok

Types:

s = float()

T = float()

See *texCoordId/1*

texCoord2f(S, T) -> ok

Types:

s = float()

T = float()

See *texCoordId/1*

texCoord2i(S, T) -> ok

Types:

s = integer()

T = integer()

See *texCoordId/1*

texCoord2s(S, T) -> ok

Types:

s = integer()

T = integer()

See *texCoordId/1*

texCoord3d(S, T, R) -> ok

Types:

```
S = float()  
T = float()  
R = float()
```

See *texCoordId/1*

texCoord3f(S, T, R) -> ok

Types:

```
S = float()  
T = float()  
R = float()
```

See *texCoordId/1*

texCoord3i(S, T, R) -> ok

Types:

```
S = integer()  
T = integer()  
R = integer()
```

See *texCoordId/1*

texCoord3s(S, T, R) -> ok

Types:

```
S = integer()  
T = integer()  
R = integer()
```

See *texCoordId/1*

texCoord4d(S, T, R, Q) -> ok

Types:

```
S = float()  
T = float()  
R = float()  
Q = float()
```

See *texCoordId/1*

texCoord4f(S, T, R, Q) -> ok

Types:

```
S = float()  
T = float()  
R = float()  
Q = float()
```

See *texCoordId/1*

texCoord4i(S, T, R, Q) -> ok

Types:

```
S = integer()
T = integer()
R = integer()
Q = integer()
```

See *texCoordId/1*

texCoord4s(S, T, R, Q) -> ok

Types:

```
S = integer()
T = integer()
R = integer()
Q = integer()
```

See *texCoordId/1*

texCoord1dv(V) -> ok

Types:

```
V = {S::float()}
```

Equivalent to *texCoordId(S)*.

texCoord1fv(V) -> ok

Types:

```
V = {S::float()}
```

Equivalent to *texCoordIf(S)*.

texCoord1liv(V) -> ok

Types:

```
V = {S::integer()}
```

Equivalent to *texCoord1i(S)*.

texCoord1lsv(V) -> ok

Types:

```
V = {S::integer()}
```

Equivalent to *texCoord1s(S)*.

texCoord2dv(V) -> ok

Types:

```
V = {S::float(), T::float()}
```

Equivalent to *texCoord2d(S, T)*.

texCoord2fv(V) -> ok

Types:

```
v = {S::float(), T::float()}
```

Equivalent to $\text{texCoord2f}(S, T)$.

texCoord2iv(V) -> ok

Types:

```
v = {S::integer(), T::integer()}
```

Equivalent to $\text{texCoord2i}(S, T)$.

texCoord2sv(V) -> ok

Types:

```
v = {S::integer(), T::integer()}
```

Equivalent to $\text{texCoord2s}(S, T)$.

texCoord3dv(V) -> ok

Types:

```
v = {S::float(), T::float(), R::float()}
```

Equivalent to $\text{texCoord3d}(S, T, R)$.

texCoord3fv(V) -> ok

Types:

```
v = {S::float(), T::float(), R::float()}
```

Equivalent to $\text{texCoord3f}(S, T, R)$.

texCoord3iv(V) -> ok

Types:

```
v = {S::integer(), T::integer(), R::integer()}
```

Equivalent to $\text{texCoord3i}(S, T, R)$.

texCoord3sv(V) -> ok

Types:

```
v = {S::integer(), T::integer(), R::integer()}
```

Equivalent to $\text{texCoord3s}(S, T, R)$.

texCoord4dv(V) -> ok

Types:

```
v = {S::float(), T::float(), R::float(), Q::float()}
```

Equivalent to $\text{texCoord4d}(S, T, R, Q)$.

texCoord4fv(V) -> ok

Types:

```
v = {S::float(), T::float(), R::float(), Q::float()}
```

Equivalent to $\text{texCoord4f}(S, T, R, Q)$.

texCoord4iv(V) -> ok

Types:

v = {S::integer(), T::integer(), R::integer(), Q::integer()}

Equivalent to *texCoord4i(S, T, R, Q)*.

texCoord4sv(V) -> ok

Types:

v = {S::integer(), T::integer(), R::integer(), Q::integer()}

Equivalent to *texCoord4s(S, T, R, Q)*.

rasterPos2d(X, Y) -> ok

Types:

**X = float()
Y = float()**

Specify the raster position for pixel operations

The GL maintains a 3D position in window coordinates. This position, called the raster position, is used to position pixel and bitmap write operations. It is maintained with subpixel accuracy. See *gl:bitmap/7*, *gl:drawPixels/5*, and *gl:copyPixels/5*.

See **external** documentation.

rasterPos2f(X, Y) -> ok

Types:

**X = float()
Y = float()**

See *rasterPos2d/2*

rasterPos2i(X, Y) -> ok

Types:

**X = integer()
Y = integer()**

See *rasterPos2d/2*

rasterPos2s(X, Y) -> ok

Types:

**X = integer()
Y = integer()**

See *rasterPos2d/2*

rasterPos3d(X, Y, Z) -> ok

Types:

**X = float()
Y = float()
Z = float()**

See *rasterPos2d/2*

rasterPos3f(X, Y, Z) -> ok

Types:

```
X = float()  
Y = float()  
Z = float()
```

See *rasterPos2d/2*

rasterPos3i(X, Y, Z) -> ok

Types:

```
X = integer()  
Y = integer()  
Z = integer()
```

See *rasterPos2d/2*

rasterPos3s(X, Y, Z) -> ok

Types:

```
X = integer()  
Y = integer()  
Z = integer()
```

See *rasterPos2d/2*

rasterPos4d(X, Y, Z, W) -> ok

Types:

```
X = float()  
Y = float()  
Z = float()  
W = float()
```

See *rasterPos2d/2*

rasterPos4f(X, Y, Z, W) -> ok

Types:

```
X = float()  
Y = float()  
Z = float()  
W = float()
```

See *rasterPos2d/2*

rasterPos4i(X, Y, Z, W) -> ok

Types:

```
X = integer()  
Y = integer()
```

```
Z = integer()
W = integer()
```

See *rasterPos2d/2*

rasterPos4s(X, Y, Z, W) -> ok

Types:

```
X = integer()
Y = integer()
Z = integer()
W = integer()
```

See *rasterPos2d/2*

rasterPos2dv(V) -> ok

Types:

```
V = {X::float(), Y::float()}
```

Equivalent to *rasterPos2d(X, Y)*.

rasterPos2fv(V) -> ok

Types:

```
V = {X::float(), Y::float()}
```

Equivalent to *rasterPos2f(X, Y)*.

rasterPos2iv(V) -> ok

Types:

```
V = {X::integer(), Y::integer()}
```

Equivalent to *rasterPos2i(X, Y)*.

rasterPos2sv(V) -> ok

Types:

```
V = {X::integer(), Y::integer()}
```

Equivalent to *rasterPos2s(X, Y)*.

rasterPos3dv(V) -> ok

Types:

```
V = {X::float(), Y::float(), Z::float()}
```

Equivalent to *rasterPos3d(X, Y, Z)*.

rasterPos3fv(V) -> ok

Types:

```
V = {X::float(), Y::float(), Z::float()}
```

Equivalent to *rasterPos3f(X, Y, Z)*.

`rasterPos3iv(V) -> ok`

Types:

`V = {X::integer(), Y::integer(), Z::integer()}`

Equivalent to `rasterPos3i(X, Y, Z)`.

`rasterPos3sv(V) -> ok`

Types:

`V = {X::integer(), Y::integer(), Z::integer()}`

Equivalent to `rasterPos3s(X, Y, Z)`.

`rasterPos4dv(V) -> ok`

Types:

`V = {X::float(), Y::float(), Z::float(), W::float()}`

Equivalent to `rasterPos4d(X, Y, Z, W)`.

`rasterPos4fv(V) -> ok`

Types:

`V = {X::float(), Y::float(), Z::float(), W::float()}`

Equivalent to `rasterPos4f(X, Y, Z, W)`.

`rasterPos4iv(V) -> ok`

Types:

`V = {X::integer(), Y::integer(), Z::integer(), W::integer()}`

Equivalent to `rasterPos4i(X, Y, Z, W)`.

`rasterPos4sv(V) -> ok`

Types:

`V = {X::integer(), Y::integer(), Z::integer(), W::integer()}`

Equivalent to `rasterPos4s(X, Y, Z, W)`.

`rectd(X1, Y1, X2, Y2) -> ok`

Types:

```
X1 = float()
Y1 = float()
X2 = float()
Y2 = float()
```

Draw a rectangle

`gl:rect` supports efficient specification of rectangles as two corner points. Each rectangle command takes four arguments, organized either as two consecutive pairs of (x y) coordinates or as two pointers to arrays, each containing an (x y) pair. The resulting rectangle is defined in the z=0 plane.

See **external** documentation.

rectf(X1, Y1, X2, Y2) -> ok

Types:

```
X1 = float()  
Y1 = float()  
X2 = float()  
Y2 = float()
```

See *rectd/4*

recti(X1, Y1, X2, Y2) -> ok

Types:

```
X1 = integer()  
Y1 = integer()  
X2 = integer()  
Y2 = integer()
```

See *rectd/4*

rects(X1, Y1, X2, Y2) -> ok

Types:

```
X1 = integer()  
Y1 = integer()  
X2 = integer()  
Y2 = integer()
```

See *rectd/4*

rectdv(V1, V2) -> ok

Types:

```
V1 = {float(), float()}  
V2 = {float(), float()}
```

See *rectd/4*

rectfv(V1, V2) -> ok

Types:

```
V1 = {float(), float()}  
V2 = {float(), float()}
```

See *rectd/4*

rectiv(V1, V2) -> ok

Types:

```
V1 = {integer(), integer()}  
V2 = {integer(), integer()}
```

See *rectd/4*

```
rectsv(V1, V2) -> ok
```

Types:

```
V1 = {integer(), integer()}
V2 = {integer(), integer()}
```

See *rectd/4*

```
vertexPointer(Size, Type, Stride, Ptr) -> ok
```

Types:

```
Size = integer()
Type = enum()
Stride = integer()
Ptr = offset() | mem()
```

Define an array of vertex data

`gl:vertexPointer` specifies the location and data format of an array of vertex coordinates to use when rendering. `Size` specifies the number of coordinates per vertex, and must be 2, 3, or 4. `Type` specifies the data type of each coordinate, and `Stride` specifies the byte stride from one vertex to the next, allowing vertices and attributes to be packed into a single array or stored in separate arrays. (Single-array storage may be more efficient on some implementations; see *gl:interleavedArrays/3*.)

See **external** documentation.

```
normalPointer(Type, Stride, Ptr) -> ok
```

Types:

```
Type = enum()
Stride = integer()
Ptr = offset() | mem()
```

Define an array of normals

`gl:normalPointer` specifies the location and data format of an array of normals to use when rendering. `Type` specifies the data type of each normal coordinate, and `Stride` specifies the byte stride from one normal to the next, allowing vertices and attributes to be packed into a single array or stored in separate arrays. (Single-array storage may be more efficient on some implementations; see *gl:interleavedArrays/3*.)

See **external** documentation.

```
colorPointer(Size, Type, Stride, Ptr) -> ok
```

Types:

```
Size = integer()
Type = enum()
Stride = integer()
Ptr = offset() | mem()
```

Define an array of colors

`gl:colorPointer` specifies the location and data format of an array of color components to use when rendering. `Size` specifies the number of components per color, and must be 3 or 4. `Type` specifies the data type of each color component, and `Stride` specifies the byte stride from one color to the next, allowing vertices and attributes to be packed into a single array or stored in separate arrays. (Single-array storage may be more efficient on some implementations; see *gl:interleavedArrays/3*.)

See **external** documentation.

`indexPointer(Type, Stride, Ptr) -> ok`

Types:

```
Type = enum()
Stride = integer()
Ptr = offset() | mem()
```

Define an array of color indexes

`gl:indexPointer` specifies the location and data format of an array of color indexes to use when rendering. `Type` specifies the data type of each color index and `Stride` specifies the byte stride from one color index to the next, allowing vertices and attributes to be packed into a single array or stored in separate arrays.

See **external** documentation.

`texCoordPointer(Size, Type, Stride, Ptr) -> ok`

Types:

```
Size = integer()
Type = enum()
Stride = integer()
Ptr = offset() | mem()
```

Define an array of texture coordinates

`gl:texCoordPointer` specifies the location and data format of an array of texture coordinates to use when rendering. `Size` specifies the number of coordinates per texture coordinate set, and must be 1, 2, 3, or 4. `Type` specifies the data type of each texture coordinate, and `Stride` specifies the byte stride from one texture coordinate set to the next, allowing vertices and attributes to be packed into a single array or stored in separate arrays. (Single-array storage may be more efficient on some implementations; see `gl:interleavedArrays/3`.)

See **external** documentation.

`edgeFlagPointer(Stride, Ptr) -> ok`

Types:

```
Stride = integer()
Ptr = offset() | mem()
```

Define an array of edge flags

`gl:edgeFlagPointer` specifies the location and data format of an array of boolean edge flags to use when rendering. `Stride` specifies the byte stride from one edge flag to the next, allowing vertices and attributes to be packed into a single array or stored in separate arrays.

See **external** documentation.

`arrayElement(I) -> ok`

Types:

```
I = integer()
```

Render a vertex using the specified vertex array element

`gl:arrayElement` commands are used within `gl:'begin'/1 / gl:'begin'/1` pairs to specify vertex and attribute data for point, line, and polygon primitives. If `?GL_VERTEX_ARRAY` is enabled when `gl:arrayElement` is called, a single

vertex is drawn, using vertex and attribute data taken from location *I* of the enabled arrays. If `?GL_VERTEX_ARRAY` is not enabled, no drawing occurs but the attributes corresponding to the enabled arrays are modified.

See [external](#) documentation.

`drawArrays(Mode, First, Count) -> ok`

Types:

```
Mode = enum()
First = integer()
Count = integer()
```

Render primitives from array data

`gl:drawArrays` specifies multiple geometric primitives with very few subroutine calls. Instead of calling a GL procedure to pass each individual vertex, normal, texture coordinate, edge flag, or color, you can prespecify separate arrays of vertices, normals, and colors and use them to construct a sequence of primitives with a single call to `gl:drawArrays`.

See [external](#) documentation.

`drawElements(Mode, Count, Type, Indices) -> ok`

Types:

```
Mode = enum()
Count = integer()
Type = enum()
Indices = offset() | mem()
```

Render primitives from array data

`gl:drawElements` specifies multiple geometric primitives with very few subroutine calls. Instead of calling a GL function to pass each individual vertex, normal, texture coordinate, edge flag, or color, you can prespecify separate arrays of vertices, normals, and so on, and use them to construct a sequence of primitives with a single call to `gl:drawElements`.

See [external](#) documentation.

`interleavedArrays(Format, Stride, Pointer) -> ok`

Types:

```
Format = enum()
Stride = integer()
Pointer = offset() | mem()
```

Simultaneously specify and enable several interleaved arrays

`gl:interleavedArrays` lets you specify and enable individual color, normal, texture and vertex arrays whose elements are part of a larger aggregate array element. For some implementations, this is more efficient than specifying the arrays separately.

See [external](#) documentation.

`shadeModel(Mode) -> ok`

Types:

```
Mode = enum()
```

Select flat or smooth shading

GL primitives can have either flat or smooth shading. Smooth shading, the default, causes the computed colors of vertices to be interpolated as the primitive is rasterized, typically assigning different colors to each resulting pixel fragment. Flat shading selects the computed color of just one vertex and assigns it to all the pixel fragments generated by rasterizing a single primitive. In either case, the computed color of a vertex is the result of lighting if lighting is enabled, or it is the current color at the time the vertex was specified if lighting is disabled.

See [external](#) documentation.

`lightf(Light, Pname, Param) -> ok`

Types:

```
Light = enum()
Pname = enum()
Param = float()
```

Set light source parameters

`gl:light` sets the values of individual light source parameters. `Light` names the light and is a symbolic name of the form `?GL_LIGHT i`, where `i` ranges from 0 to the value of `?GL_MAX_LIGHTS - 1`. `Pname` specifies one of ten light source parameters, again by symbolic name. `Params` is either a single value or a pointer to an array that contains the new values.

See [external](#) documentation.

`lighti(Light, Pname, Param) -> ok`

Types:

```
Light = enum()
Pname = enum()
Param = integer()
```

See `lightf/3`

`lightfv(Light, Pname, Params) -> ok`

Types:

```
Light = enum()
Pname = enum()
Params = tuple()
```

See `lightf/3`

`lightiv(Light, Pname, Params) -> ok`

Types:

```
Light = enum()
Pname = enum()
Params = tuple()
```

See `lightf/3`

`getLightfv(Light, Pname) -> {float(), float(), float(), float()}`

Types:

```
Light = enum()
```

Pname = enum()

Return light source parameter values

gl:getLight returns in Params the value or values of a light source parameter. Light names the light and is a symbolic name of the form ?GL_LIGHT i where i ranges from 0 to the value of ?GL_MAX_LIGHTS - 1. ?GL_MAX_LIGHTS is an implementation dependent constant that is greater than or equal to eight. Pname specifies one of ten light source parameters, again by symbolic name.

See **external** documentation.

getLightiv(Light, Pname) -> {integer(), integer(), integer(), integer()}

Types:

Light = enum()
Pname = enum()

See *getLightfv/2*

lightModelf(Pname, Param) -> ok

Types:

Pname = enum()
Param = float()

Set the lighting model parameters

gl:lightModel sets the lighting model parameter. Pname names a parameter and Params gives the new value. There are three lighting model parameters:

See **external** documentation.

lightModeli(Pname, Param) -> ok

Types:

Pname = enum()
Param = integer()

See *lightModelf/2*

lightModelfv(Pname, Params) -> ok

Types:

Pname = enum()
Params = tuple()

See *lightModelf/2*

lightModeliv(Pname, Params) -> ok

Types:

Pname = enum()
Params = tuple()

See *lightModelf/2*

materialf(Face, Pname, Param) -> ok

Types:

```
Face = enum()
Pname = enum()
Param = float()
```

Specify material parameters for the lighting model

gl:material assigns values to material parameters. There are two matched sets of material parameters. One, the front-facing set, is used to shade points, lines, bitmaps, and all polygons (when two-sided lighting is disabled), or just front-facing polygons (when two-sided lighting is enabled). The other set, back-facing, is used to shade back-facing polygons only when two-sided lighting is enabled. Refer to the *gl:lightModelf/2* reference page for details concerning one- and two-sided lighting calculations.

See **external** documentation.

```
materiali(Face, Pname, Param) -> ok
```

Types:

```
Face = enum()
Pname = enum()
Param = integer()
```

See *materialf/3*

```
materialfv(Face, Pname, Params) -> ok
```

Types:

```
Face = enum()
Pname = enum()
Params = tuple()
```

See *materialf/3*

```
materialiv(Face, Pname, Params) -> ok
```

Types:

```
Face = enum()
Pname = enum()
Params = tuple()
```

See *materialf/3*

```
getMaterialfv(Face, Pname) -> {float(), float(), float(), float()}
```

Types:

```
Face = enum()
Pname = enum()
```

Return material parameters

gl:getMaterial returns in `Params` the value or values of parameter `Pname` of material `Face`. Six parameters are defined:

See **external** documentation.

```
getMaterialiv(Face, Pname) -> {integer(), integer(), integer(), integer()}
```

Types:

```
Face = enum()
Pname = enum()
```

See *getMaterialfv/2*

colorMaterial(Face, Mode) -> ok

Types:

```
Face = enum()
Mode = enum()
```

Cause a material color to track the current color

gl:**colorMaterial** specifies which material parameters track the current color. When ?GL_COLOR_MATERIAL is enabled, the material parameter or parameters specified by **Mode**, of the material or materials specified by **Face**, track the current color at all times.

See **external** documentation.

pixelZoom(Xfactor, Yfactor) -> ok

Types:

```
Xfactor = float()
Yfactor = float()
```

Specify the pixel zoom factors

gl:**pixelZoom** specifies values for the x and y zoom factors. During the execution of *gl:drawPixels/5* or *gl:copyPixels/5*, if (xr, yr) is the current raster position, and a given element is in the mth row and nth column of the pixel rectangle, then pixels whose centers are in the rectangle with corners at

See **external** documentation.

pixelStoref(Pname, Param) -> ok

Types:

```
Pname = enum()
Param = float()
```

Set pixel storage modes

gl:**pixelStore** sets pixel storage modes that affect the operation of subsequent *gl:readPixels/7* as well as the unpacking of texture patterns (see *gl:texImage1D/8*, *gl:texImage2D/9*, *gl:texImage3D/10*, *gl:texSubImage1D/7*, *gl:texSubImage1D/7*, *gl:texSubImage1D/7*, *gl:compressedTexImage1D/7*, *gl:compressedTexImage2D/8*, *gl:compressedTexImage3D/9*, *gl:compressedTexSubImage1D/7*, *gl:compressedTexSubImage2D/9* or *gl:compressedTexSubImage1D/7*.

See **external** documentation.

pixelStorei(Pname, Param) -> ok

Types:

```
Pname = enum()
Param = integer()
```

See *pixelStoref/2*

pixelTransferf(Pname, Param) -> ok

Types:

```
Pname = enum()
Param = float()
```

Set pixel transfer modes

gl:`pixelTransfer` sets pixel transfer modes that affect the operation of subsequent `gl:copyPixels/5`, `gl:copyTexImage1D/7`, `gl:copyTexImage2D/8`, `gl:copyTexSubImage1D/6`, `gl:copyTexSubImage2D/8`, `gl:copyTexSubImage3D/9`, `gl:drawPixels/5`, `gl:readPixels/7`, `gl:texImage1D/8`, `gl:texImage2D/9`, `gl:texImage3D/10`, `gl:texSubImage1D/7`, `gl:texSubImage1D/7`, and `gl:texSubImage1D/7` commands. Additionally, if the ARB_imaging subset is supported, the routines `gl:colorTable/6`, `gl:colorSubTable/6`, `gl:convolutionFilter1D/6`, `gl:convolutionFilter2D/7`, `gl:histogram/4`, `gl:minmax/3`, and `gl:separableFilter2D/8` are also affected. The algorithms that are specified by pixel transfer modes operate on pixels after they are read from the frame buffer (`gl:copyPixels/5` `gl:copyTexImage1D/7`, `gl:copyTexImage2D/8`, `gl:copyTexSubImage1D/6`, `gl:copyTexSubImage2D/8`, `gl:copyTexSubImage3D/9`, and `gl:readPixels/7`), or unpacked from client memory (`gl:drawPixels/5`, `gl:texImage1D/8`, `gl:texImage2D/9`, `gl:texImage3D/10`, `gl:texSubImage1D/7`, `gl:texSubImage1D/7`, and `gl:texSubImage1D/7`). Pixel transfer operations happen in the same order, and in the same manner, regardless of the command that resulted in the pixel operation. Pixel storage modes (see `gl:pixelStoref/2`) control the unpacking of pixels being read from client memory and the packing of pixels being written back into client memory.

See **external** documentation.

pixelTransferi(Pname, Param) -> ok

Types:

```
Pname = enum()
Param = integer()
```

See *pixelTransferf/2*

pixelMapfv(Map, Mapsize, Values) -> ok

Types:

```
Map = enum()
Mapsize = integer()
Values = binary()
```

Set up pixel transfer maps

gl:`pixelMap` sets up translation tables, or `maps`, used by `gl:copyPixels/5`, `gl:copyTexImage1D/7`, `gl:copyTexImage2D/8`, `gl:copyTexSubImage1D/6`, `gl:copyTexSubImage2D/8`, `gl:copyTexSubImage3D/9`, `gl:drawPixels/5`, `gl:readPixels/7`, `gl:texImage1D/8`, `gl:texImage2D/9`, `gl:texImage3D/10`, `gl:texSubImage1D/7`, `gl:texSubImage1D/7`, and `gl:texSubImage1D/7`. Additionally, if the ARB_imaging subset is supported, the routines `gl:colorTable/6`, `gl:colorSubTable/6`, `gl:convolutionFilter1D/6`, `gl:convolutionFilter2D/7`, `gl:histogram/4`, `gl:minmax/3`, and `gl:separableFilter2D/8`. Use of these maps is described completely in the `gl:pixelTransferf/2` reference page, and partly in the reference pages for the pixel and texture image commands. Only the specification of the maps is described in this reference page.

See **external** documentation.

pixelMapuiv(Map, Mapsize, Values) -> ok

Types:

```
Map = enum()
Mapsize = integer()
```

```
Values = binary()
```

See *pixelMapfv/3*

pixelMapusv(Map, Mapsize, Values) -> ok

Types:

```
Map = enum()
Mapsize = integer()
Values = binary()
```

See *pixelMapfv/3*

getPixelMapfv(Map, Values) -> ok

Types:

```
Map = enum()
Values = mem()
```

Return the specified pixel map

See the *gl:pixelMapfv/3* reference page for a description of the acceptable values for the **Map** parameter. *gl:getPixelMap* returns in **Data** the contents of the pixel map specified in **Map**. Pixel maps are used during the execution of *gl:readPixels/7*, *gl:drawPixels/5*, *gl:copyPixels/5*, *gl:texImage1D/8*, *gl:texImage2D/9*, *gl:texImage3D/10*, *gl:texSubImage1D/7*, *gl:texSubImage1D/7*, *gl:texSubImage1D/7*, *gl:copyTexImage1D/7*, *gl:copyTexImage2D/8*, *gl:copyTexSubImage1D/6*, *gl:copyTexImage2D/8*, and *gl:copyTexSubImage3D/9* to map color indices, stencil indices, color components, and depth components to other values.

See **external** documentation.

getPixelMapuiv(Map, Values) -> ok

Types:

```
Map = enum()
Values = mem()
```

See *getPixelMapfv/2*

getPixelMapusv(Map, Values) -> ok

Types:

```
Map = enum()
Values = mem()
```

See *getPixelMapfv/2*

bitmap(Width, Height, Xorig, Yorig, Xmove, Ymove, Bitmap) -> ok

Types:

```
Width = integer()
Height = integer()
Xorig = float()
Yorig = float()
Xmove = float()
Ymove = float()
```

```
Bitmap = offset() | mem()
```

Draw a bitmap

A bitmap is a binary image. When drawn, the bitmap is positioned relative to the current raster position, and frame buffer pixels corresponding to 1's in the bitmap are written using the current raster color or index. Frame buffer pixels corresponding to 0's in the bitmap are not modified.

See [external](#) documentation.

```
readPixels(X, Y, Width, Height, Format, Type, Pixels) -> ok
```

Types:

```
X = integer()
Y = integer()
Width = integer()
Height = integer()
Format = enum()
Type = enum()
Pixels = mem()
```

Read a block of pixels from the frame buffer

gl:readPixels returns pixel data from the frame buffer, starting with the pixel whose lower left corner is at location (X , Y), into client memory starting at location Data . Several parameters control the processing of the pixel data before it is placed into client memory. These parameters are set with gl:pixelStoref/2 . This reference page describes the effects on gl:readPixels of most, but not all of the parameters specified by these three commands.

See [external](#) documentation.

```
drawPixels(Width, Height, Format, Type, Pixels) -> ok
```

Types:

```
Width = integer()
Height = integer()
Format = enum()
Type = enum()
Pixels = offset() | mem()
```

Write a block of pixels to the frame buffer

gl:drawPixels reads pixel data from memory and writes it into the frame buffer relative to the current raster position, provided that the raster position is valid. Use gl:rasterPos2d/2 or gl:windowPos2d/2 to set the current raster position; use gl:getBooleanv/1 with argument ?GL_CURRENT_RASTER_POSITION_VALID to determine if the specified raster position is valid, and gl:getBooleanv/1 with argument ?GL_CURRENT_RASTER_POSITION to query the raster position.

See [external](#) documentation.

```
copyPixels(X, Y, Width, Height, Type) -> ok
```

Types:

```
X = integer()
Y = integer()
Width = integer()
```

```
Height = integer()
Type = enum()
```

Copy pixels in the frame buffer

gl:copyPixels copies a screen-aligned rectangle of pixels from the specified frame buffer location to a region relative to the current raster position. Its operation is well defined only if the entire pixel source region is within the exposed portion of the window. Results of copies from outside the window, or from regions of the window that are not exposed, are hardware dependent and undefined.

See [external](#) documentation.

stencilFunc(Func, Ref, Mask) -> ok

Types:

```
Func = enum()
Ref = integer()
Mask = integer()
```

Set front and back function and reference value for stencil testing

Stenciling, like depth-buffering, enables and disables drawing on a per-pixel basis. Stencil planes are first drawn into using GL drawing primitives, then geometry and images are rendered using the stencil planes to mask out portions of the screen. Stenciling is typically used in multipass rendering algorithms to achieve special effects, such as decals, outlining, and constructive solid geometry rendering.

See [external](#) documentation.

stencilMask(Mask) -> ok

Types:

```
Mask = integer()
```

Control the front and back writing of individual bits in the stencil planes

gl:stencilMask controls the writing of individual bits in the stencil planes. The least significant n bits of Mask , where n is the number of bits in the stencil buffer, specify a mask. Where a 1 appears in the mask, it's possible to write to the corresponding bit in the stencil buffer. Where a 0 appears, the corresponding bit is write-protected. Initially, all bits are enabled for writing.

See [external](#) documentation.

stencilOp(Fail, Zfail, Zpass) -> ok

Types:

```
Fail = enum()
Zfail = enum()
Zpass = enum()
```

Set front and back stencil test actions

Stenciling, like depth-buffering, enables and disables drawing on a per-pixel basis. You draw into the stencil planes using GL drawing primitives, then render geometry and images, using the stencil planes to mask out portions of the screen. Stenciling is typically used in multipass rendering algorithms to achieve special effects, such as decals, outlining, and constructive solid geometry rendering.

See [external](#) documentation.

`clearStencil(S) -> ok`

Types:

S = integer()

Specify the clear value for the stencil buffer

gl:clearStencil specifies the index used by *gl:clear/1* to clear the stencil buffer. S is masked with 2^{m-1}, where m is the number of bits in the stencil buffer.

See **external** documentation.

`texGend(Coord, Pname, Param) -> ok`

Types:

Coord = enum()

Pname = enum()

Param = float()

Control the generation of texture coordinates

gl:texGen selects a texture-coordinate generation function or supplies coefficients for one of the functions. Coord names one of the (s, t, r, q) texture coordinates; it must be one of the symbols ?GL_S, ?GL_T, ?GL_R, or ?GL_Q. Pname must be one of three symbolic constants: ?GL_TEXTURE_GEN_MODE, ?GL_OBJECT_PLANE, or ?GL_EYE_PLANE. If Pname is ?GL_TEXTURE_GEN_MODE, then Params chooses a mode, one of ?GL_OBJECT_LINEAR, ?GL_EYE_LINEAR, ?GL_SPHERE_MAP, ?GL_NORMAL_MAP, or ?GL_REFLECTION_MAP. If Pname is either ?GL_OBJECT_PLANE or ?GL_EYE_PLANE, Params contains coefficients for the corresponding texture generation function.

See **external** documentation.

`texGenf(Coord, Pname, Param) -> ok`

Types:

Coord = enum()

Pname = enum()

Param = float()

See *texGend/3*

`texGeni(Coord, Pname, Param) -> ok`

Types:

Coord = enum()

Pname = enum()

Param = integer()

See *texGend/3*

`texGendv(Coord, Pname, Params) -> ok`

Types:

Coord = enum()

Pname = enum()

Params = tuple()

See *texGend/3*

`texGenfv(Coord, Pname, Params) -> ok`

Types:

```
Coord = enum()
Pname = enum()
Params = tuple()
```

See *texGend/3*

`texGeniv(Coord, Pname, Params) -> ok`

Types:

```
Coord = enum()
Pname = enum()
Params = tuple()
```

See *texGend/3*

`getTexGendv(Coord, Pname) -> {float(), float(), float(), float()}`

Types:

```
Coord = enum()
Pname = enum()
```

Return texture coordinate generation parameters

gl:getTexGen returns in Params selected parameters of a texture coordinate generation function that was specified using *gl:texGend/3*. Coord names one of the (s, t, r, q) texture coordinates, using the symbolic constant ?GL_S, ?GL_T, ?GL_R, or ?GL_Q.

See **external** documentation.

`getTexGenfv(Coord, Pname) -> {float(), float(), float(), float()}`

Types:

```
Coord = enum()
Pname = enum()
```

See *getTexGendv/2*

`getTexGeniv(Coord, Pname) -> {integer(), integer(), integer(), integer()}`

Types:

```
Coord = enum()
Pname = enum()
```

See *getTexGendv/2*

`texEnvf(Target, Pname, Param) -> ok`

Types:

```
Target = enum()
Pname = enum()
Param = float()
```

glTexEnvf

See *external* documentation.

`texEnvi(Target, Pname, Param) -> ok`

Types:

```
Target = enum()
Pname = enum()
Param = integer()
```

`glTexEnvi`

See *external* documentation.

`texEnvfv(Target, Pname, Params) -> ok`

Types:

```
Target = enum()
Pname = enum()
Params = tuple()
```

Set texture environment parameters

A texture environment specifies how texture values are interpreted when a fragment is textured. When Target is `?GL_TEXTURE_FILTER_CONTROL`, Pname must be `?GL_TEXTURE_LOD_BIAS`. When Target is `?GL_TEXTURE_ENV`, Pname can be `?GL_TEXTURE_ENV_MODE`, `?GL_TEXTURE_ENV_COLOR`, `?GL_COMBINE_RGB`, `?GL_COMBINE_ALPHA`, `?GL_RGB_SCALE`, `?GL_ALPHA_SCALE`, `?GL_SRC0_RGB`, `?GL_SRC1_RGB`, `?GL_SRC2_RGB`, `?GL_SRC0_ALPHA`, `?GL_SRC1_ALPHA`, or `?GL_SRC2_ALPHA`.

See *external* documentation.

`texEnviv(Target, Pname, Params) -> ok`

Types:

```
Target = enum()
Pname = enum()
Params = tuple()
```

See *texEnvfv/3*

`getTexEnvfv(Target, Pname) -> {float(), float(), float(), float()}`

Types:

```
Target = enum()
Pname = enum()
```

Return texture environment parameters

`gl:getTexEnv` returns in Params selected values of a texture environment that was specified with `gl:texEnvfv/3`. Target specifies a texture environment.

See *external* documentation.

`getTexEnviv(Target, Pname) -> {integer(), integer(), integer(), integer()}`

Types:

```
Target = enum()
Pname = enum()
```

See *getTexEnvfv/2*

texParameterf(Target, Pname, Param) -> ok

Types:

```
Target = enum()
Pname = enum()
Param = float()
```

Set texture parameters

gl:texParameter assigns the value or values in Params to the texture parameter specified as Pname . Target defines the target texture, either ?GL_TEXTURE_1D , ?GL_TEXTURE_2D, ?GL_TEXTURE_1D_ARRAY, ?GL_TEXTURE_2D_ARRAY, ?GL_TEXTURE_RECTANGLE , or ?GL_TEXTURE_3D. The following symbols are accepted in Pname :

See **external** documentation.

texParameteri(Target, Pname, Param) -> ok

Types:

```
Target = enum()
Pname = enum()
Param = integer()
```

See *texParameterf/3*

texParameterfv(Target, Pname, Params) -> ok

Types:

```
Target = enum()
Pname = enum()
Params = tuple()
```

See *texParameterf/3*

texParameteriv(Target, Pname, Params) -> ok

Types:

```
Target = enum()
Pname = enum()
Params = tuple()
```

See *texParameterf/3*

getTexParameterfv(Target, Pname) -> {float(), float(), float(), float()}

Types:

```
Target = enum()
Pname = enum()
```

Return texture parameter values

gl:getTexParameter returns in Params the value or values of the texture parameter specified as Pname . Target defines the target texture. ?GL_TEXTURE_1D, ?GL_TEXTURE_2D, ?GL_TEXTURE_3D, ?GL_TEXTURE_1D_ARRAY, ?GL_TEXTURE_2D_ARRAY , ?GL_TEXTURE_RECTANGLE, ?GL_TEXTURE_CUBE_MAP, ?GL_TEXTURE_CUBE_MAP_ARRAY specify one-, two-, or three-dimensional, one-dimensional array, two-dimensional array, rectangle, cube-mapped or cube-mapped array texturing, respectively. Pname accepts the same symbols as *gl:texParameterf/3* , with the same interpretations:

See **external** documentation.

```
getTexParameteriv(Target, Pname) -> {integer(), integer(), integer(),  
integer()}
```

Types:

```
Target = enum()  
Pname = enum()
```

See *getTexParameterfv/2*

```
getTexLevelParameterfv(Target, Level, Pname) -> {float()}
```

Types:

```
Target = enum()  
Level = integer()  
Pname = enum()
```

Return texture parameter values for a specific level of detail

gl:getTexLevelParameter returns in Params texture parameter values for a specific level-of-detail value, specified as Level . Target defines the target texture, either ?GL_TEXTURE_1D, ?GL_TEXTURE_2D, ?GL_TEXTURE_3D, ?GL_PROXY_TEXTURE_1D , ?GL_PROXY_TEXTURE_2D, ?GL_PROXY_TEXTURE_3D, ?GL_TEXTURE_CUBE_MAP_POSITIVE_X , ?GL_TEXTURE_CUBE_MAP_NEGATIVE_X, ?GL_TEXTURE_CUBE_MAP_POSITIVE_Y, ?GL_TEXTURE_CUBE_MAP_NEGATIVE_Y , ?GL_TEXTURE_CUBE_MAP_POSITIVE_Z, ?GL_TEXTURE_CUBE_MAP_NEGATIVE_Z, or ?GL_PROXY_TEXTURE_CUBE_MAP .

See **external** documentation.

```
getTexLevelParameteriv(Target, Level, Pname) -> {integer()}
```

Types:

```
Target = enum()  
Level = integer()  
Pname = enum()
```

See *getTexLevelParameterfv/3*

```
texImage1D(Target, Level, InternalFormat, Width, Border, Format, Type,  
Pixels) -> ok
```

Types:

```
Target = enum()  
Level = integer()  
InternalFormat = integer()  
Width = integer()  
Border = integer()  
Format = enum()  
Type = enum()  
Pixels = offset() | mem()
```

Specify a one-dimensional texture image

Texturing maps a portion of a specified texture image onto each graphical primitive for which texturing is enabled. To enable and disable one-dimensional texturing, call *gl:enable/1* and *gl:enable/1* with argument `?GL_TEXTURE_1D`.

See **external** documentation.

```
texImage2D(Target, Level, InternalFormat, Width, Height, Border, Format,
Type, Pixels) -> ok
```

Types:

```
Target = enum()
Level = integer()
InternalFormat = integer()
Width = integer()
Height = integer()
Border = integer()
Format = enum()
Type = enum()
Pixels = offset() | mem()
```

Specify a two-dimensional texture image

Texturing allows elements of an image array to be read by shaders.

See **external** documentation.

```
getTexImage(Target, Level, Format, Type, Pixels) -> ok
```

Types:

```
Target = enum()
Level = integer()
Format = enum()
Type = enum()
Pixels = mem()
```

Return a texture image

gl:getTexImage returns a texture image into `Img`. `Target` specifies whether the desired texture image is one specified by *gl:texImage1D/8* (`?GL_TEXTURE_1D`), *gl:texImage2D/9* (`?GL_TEXTURE_1D_ARRAY`, `?GL_TEXTURE_RECTANGLE`, `?GL_TEXTURE_2D` or any of `?GL_TEXTURE_CUBE_MAP_*`), or *gl:texImage3D/10* (`?GL_TEXTURE_2D_ARRAY`, `?GL_TEXTURE_3D`). `Level` specifies the level-of-detail number of the desired image. `Format` and `Type` specify the format and type of the desired image array. See the reference page for *gl:texImage1D/8* for a description of the acceptable values for the `Format` and `Type` parameters, respectively.

See **external** documentation.

```
genTextures(N) -> [integer()]
```

Types:

```
N = integer()
```

Generate texture names

gl:genTextures returns `N` texture names in `Textures`. There is no guarantee that the names form a contiguous set of integers; however, it is guaranteed that none of the returned names was in use immediately before the call to *gl:genTextures*.

See **external** documentation.

deleteTextures(Textures) -> ok

Types:

Textures = [integer()]

Delete named textures

gl:deleteTextures deletes N textures named by the elements of the array Textures . After a texture is deleted, it has no contents or dimensionality, and its name is free for reuse (for example by gl:genTextures/1). If a texture that is currently bound is deleted, the binding reverts to 0 (the default texture).

See **external** documentation.

bindTexture(Target, Texture) -> ok

Types:

Target = enum()

Texture = integer()

Bind a named texture to a texturing target

gl:bindTexture lets you create or use a named texture. Calling gl:bindTexture with Target set to ?GL_TEXTURE_1D, ?GL_TEXTURE_2D, ?GL_TEXTURE_3D , or ?GL_TEXTURE_1D_ARRAY, ?GL_TEXTURE_2D_ARRAY, ?GL_TEXTURE_RECTANGLE , ?GL_TEXTURE_CUBE_MAP, ?GL_TEXTURE_2D_MULTISAMPLE or ?GL_TEXTURE_2D_MULTISAMPLE_ARRAY and Texture set to the name of the new texture binds the texture name to the target. When a texture is bound to a target, the previous binding for that target is automatically broken.

See **external** documentation.

prioritizeTextures(Textures, Priorities) -> ok

Types:

Textures = [integer()]

Priorities = [clamp()]

Set texture residence priority

gl:prioritizeTextures assigns the N texture priorities given in Priorities to the N textures named in Textures .

See **external** documentation.

areTexturesResident(Textures) -> {0 | 1, Residences:[0 | 1]}

Types:

Textures = [integer()]

Determine if textures are loaded in texture memory

GL establishes a working set of textures that are resident in texture memory. These textures can be bound to a texture target much more efficiently than textures that are not resident.

See **external** documentation.

isTexture(Texture) -> 0 | 1

Types:

```
Texture = integer()
```

Determine if a name corresponds to a texture

gl:isTexture returns ?GL_TRUE if Texture is currently the name of a texture. If Texture is zero, or is a non-zero value that is not currently the name of a texture, or if an error occurs, gl:isTexture returns ?GL_FALSE.

See **external** documentation.

texSubImage1D(Target, Level, Xoffset, Width, Format, Type, Pixels) -> ok

Types:

```
Target = enum()
Level = integer()
Xoffset = integer()
Width = integer()
Format = enum()
Type = enum()
Pixels = offset() | mem()
```

glTexSubImage

See *external* documentation.

texSubImage2D(Target, Level, Xoffset, Yoffset, Width, Height, Format, Type, Pixels) -> ok

Types:

```
Target = enum()
Level = integer()
Xoffset = integer()
Yoffset = integer()
Width = integer()
Height = integer()
Format = enum()
Type = enum()
Pixels = offset() | mem()
```

glTexSubImage

See *external* documentation.

copyTexImage1D(Target, Level, Internalformat, X, Y, Width, Border) -> ok

Types:

```
Target = enum()
Level = integer()
Internalformat = enum()
X = integer()
Y = integer()
Width = integer()
Border = integer()
```

Copy pixels into a 1D texture image

gl:copyTexImage1D defines a one-dimensional texture image with pixels from the current ?GL_READ_BUFFER.

See **external** documentation.

copyTexImage2D(Target, Level, Internalformat, X, Y, Width, Height, Border) -> ok

Types:

```
Target = enum()
Level = integer()
Internalformat = enum()
X = integer()
Y = integer()
Width = integer()
Height = integer()
Border = integer()
```

Copy pixels into a 2D texture image

gl:copyTexImage2D defines a two-dimensional texture image, or cube-map texture image with pixels from the current ?GL_READ_BUFFER.

See **external** documentation.

copyTexSubImage1D(Target, Level, Xoffset, X, Y, Width) -> ok

Types:

```
Target = enum()
Level = integer()
Xoffset = integer()
X = integer()
Y = integer()
Width = integer()
```

Copy a one-dimensional texture subimage

gl:copyTexSubImage1D replaces a portion of a one-dimensional texture image with pixels from the current ?GL_READ_BUFFER (rather than from main memory, as is the case for gl:texSubImage1D/7).

See **external** documentation.

copyTexSubImage2D(Target, Level, Xoffset, Yoffset, X, Y, Width, Height) -> ok

Types:

```
Target = enum()
Level = integer()
Xoffset = integer()
Yoffset = integer()
X = integer()
Y = integer()
Width = integer()
Height = integer()
```

Copy a two-dimensional texture subimage

gl:copyTexSubImage2D replaces a rectangular portion of a two-dimensional texture image or cube-map texture image with pixels from the current ?GL_READ_BUFFER (rather than from main memory, as is the case for gl:texSubImage1D/7).

See *external* documentation.

map1d(Target, U1, U2, Stride, Order, Points) -> ok

Types:

```
Target = enum()
U1 = float()
U2 = float()
Stride = integer()
Order = integer()
Points = binary()
```

glMap

See *external* documentation.

map1f(Target, U1, U2, Stride, Order, Points) -> ok

Types:

```
Target = enum()
U1 = float()
U2 = float()
Stride = integer()
Order = integer()
Points = binary()
```

glMap

See *external* documentation.

map2d(Target, U1, U2, Ustride, Uorder, V1, V2, Vstride, Vorder, Points) -> ok

Types:

```
Target = enum()
U1 = float()
U2 = float()
Ustride = integer()
Uorder = integer()
V1 = float()
V2 = float()
Vstride = integer()
Vorder = integer()
Points = binary()
```

glMap

See *external* documentation.

gl

map2f(Target, U1, U2, Ustride, Uorder, V1, V2, Vstride, Vorder, Points) -> ok
Types:

```
Target = enum()
U1 = float()
U2 = float()
Ustride = integer()
Uorder = integer()
V1 = float()
V2 = float()
Vstride = integer()
Vorder = integer()
Points = binary()
```

glMap

See *external* documentation.

getMapdv(Target, Query, V) -> ok

Types:

```
Target = enum()
Query = enum()
V = mem()
```

Return evaluator parameters

gl:map1d/6 and *gl:map1d/6* define evaluators. *gl:getMap* returns evaluator parameters. Target chooses a map, Query selects a specific parameter, and V points to storage where the values will be returned.

See **external** documentation.

getMapfv(Target, Query, V) -> ok

Types:

```
Target = enum()
Query = enum()
V = mem()
```

See *getMapdv/3*

getMapiv(Target, Query, V) -> ok

Types:

```
Target = enum()
Query = enum()
V = mem()
```

See *getMapdv/3*

evalCoord1d(U) -> ok

Types:

```
U = float()
```

Evaluate enabled one- and two-dimensional maps

`gl:evalCoord1` evaluates enabled one-dimensional maps at argument `U` . `gl:evalCoord2` does the same for two-dimensional maps using two domain values, `U` and `V` . To define a map, call `gl:mapId/6` and `gl:mapId/6` ; to enable and disable it, call `gl:enable/1` and `gl:enable/1` .

See **external** documentation.

evalCoord1f(U) -> ok

Types:

`U = float()`

See *evalCoord1d/1*

evalCoord1dv(U) -> ok

Types:

`U = {U::float()}`

Equivalent to *evalCoord1d(U)*.

evalCoord1fv(U) -> ok

Types:

`U = {U::float()}`

Equivalent to *evalCoord1f(U)*.

evalCoord2d(U, V) -> ok

Types:

`U = float()`

`V = float()`

See *evalCoord1d/1*

evalCoord2f(U, V) -> ok

Types:

`U = float()`

`V = float()`

See *evalCoord1d/1*

evalCoord2dv(U) -> ok

Types:

`U = {U::float(), V::float()}`

Equivalent to *evalCoord2d(U, V)*.

evalCoord2fv(U) -> ok

Types:

`U = {U::float(), V::float()}`

Equivalent to *evalCoord2f(U, V)*.

gl

mapGrid1d(Un, U1, U2) -> ok

Types:

```
Un = integer()  
U1 = float()  
U2 = float()
```

Define a one- or two-dimensional mesh

gl:mapGrid and gl:evalMesh1/3 are used together to efficiently generate and evaluate a series of evenly-spaced map domain values. gl:evalMesh1/3 steps through the integer domain of a one- or two-dimensional grid, whose range is the domain of the evaluation maps specified by gl:map1d/6 and gl:map1d/6 .

See **external** documentation.

mapGrid1f(Un, U1, U2) -> ok

Types:

```
Un = integer()  
U1 = float()  
U2 = float()
```

See *mapGrid1d/3*

mapGrid2d(Un, U1, U2, Vn, V1, V2) -> ok

Types:

```
Un = integer()  
U1 = float()  
U2 = float()  
Vn = integer()  
V1 = float()  
V2 = float()
```

See *mapGrid1d/3*

mapGrid2f(Un, U1, U2, Vn, V1, V2) -> ok

Types:

```
Un = integer()  
U1 = float()  
U2 = float()  
Vn = integer()  
V1 = float()  
V2 = float()
```

See *mapGrid1d/3*

evalPoint1(I) -> ok

Types:

```
I = integer()
```

Generate and evaluate a single point in a mesh

gl:mapGrid1d/3 and *gl:evalMesh1/3* are used in tandem to efficiently generate and evaluate a series of evenly spaced map domain values. *gl:evalPoint* can be used to evaluate a single grid point in the same gridspace that is traversed by *gl:evalMesh1/3*. Calling *gl:evalPoint1* is equivalent to calling *glEvalCoord1(i.Δ u+u 1)*; where $\&\Delta;$ $u=(u\ 2-u\ 1)/n$

See **external** documentation.

evalPoint2(I, J) -> ok

Types:

```
I = integer()
J = integer()
```

See *evalPoint1/1*

evalMesh1(Mode, I1, I2) -> ok

Types:

```
Mode = enum()
I1 = integer()
I2 = integer()
```

Compute a one- or two-dimensional grid of points or lines

gl:mapGrid1d/3 and *gl:evalMesh* are used in tandem to efficiently generate and evaluate a series of evenly-spaced map domain values. *gl:evalMesh* steps through the integer domain of a one- or two-dimensional grid, whose range is the domain of the evaluation maps specified by *gl:map1d/6* and *gl:map1d/6*. *Mode* determines whether the resulting vertices are connected as points, lines, or filled polygons.

See **external** documentation.

evalMesh2(Mode, I1, I2, J1, J2) -> ok

Types:

```
Mode = enum()
I1 = integer()
I2 = integer()
J1 = integer()
J2 = integer()
```

See *evalMesh1/3*

fogf(Pname, Param) -> ok

Types:

```
Pname = enum()
Param = float()
```

Specify fog parameters

Fog is initially disabled. While enabled, fog affects rasterized geometry, bitmaps, and pixel blocks, but not buffer clear operations. To enable and disable fog, call *gl:enable/1* and *gl:enable/1* with argument *?GL_FOG*.

See **external** documentation.

fogi(Pname, Param) -> ok

Types:

```
Pname = enum()
Param = integer()
```

See *fogf/2*

fogfv(Pname, Params) -> ok

Types:

```
Pname = enum()
Params = tuple()
```

See *fogf/2*

fogiv(Pname, Params) -> ok

Types:

```
Pname = enum()
Params = tuple()
```

See *fogf/2*

feedbackBuffer(Size, Type, Buffer) -> ok

Types:

```
Size = integer()
Type = enum()
Buffer = mem()
```

Controls feedback mode

The `gl:feedbackBuffer` function controls feedback. Feedback, like selection, is a GL mode. The mode is selected by calling `gl:renderMode/1` with `?GL_FEEDBACK`. When the GL is in feedback mode, no pixels are produced by rasterization. Instead, information about primitives that would have been rasterized is fed back to the application using the GL.

See **external** documentation.

passThrough(Token) -> ok

Types:

```
Token = float()
```

Place a marker in the feedback buffer

See **external** documentation.

selectBuffer(Size, Buffer) -> ok

Types:

```
Size = integer()
Buffer = mem()
```

Establish a buffer for selection mode values

`gl:selectBuffer` has two arguments: `Buffer` is a pointer to an array of unsigned integers, and `Size` indicates the size of the array. `Buffer` returns values from the name stack (see `gl:initNames/0`, `gl:loadName/1`, `gl:pushName/1`

) when the rendering mode is ?GL_SELECT (see *gl:renderMode/1*). `gl:selectBuffer` must be issued before selection mode is enabled, and it must not be issued while the rendering mode is ?GL_SELECT.

See **external** documentation.

initNames() -> ok

Initialize the name stack

The name stack is used during selection mode to allow sets of rendering commands to be uniquely identified. It consists of an ordered set of unsigned integers. `gl:initNames` causes the name stack to be initialized to its default empty state.

See **external** documentation.

loadName(Name) -> ok

Types:

Name = integer()

Load a name onto the name stack

The name stack is used during selection mode to allow sets of rendering commands to be uniquely identified. It consists of an ordered set of unsigned integers and is initially empty.

See **external** documentation.

pushName(Name) -> ok

Types:

Name = integer()

Push and pop the name stack

The name stack is used during selection mode to allow sets of rendering commands to be uniquely identified. It consists of an ordered set of unsigned integers and is initially empty.

See **external** documentation.

popName() -> ok

See *pushName/1*

blendColor(Red, Green, Blue, Alpha) -> ok

Types:

Red = clamp()

Green = clamp()

Blue = clamp()

Alpha = clamp()

Set the blend color

The ?GL_BLEND_COLOR may be used to calculate the source and destination blending factors. The color components are clamped to the range [0 1] before being stored. See *gl:blendFunc/2* for a complete description of the blending operations. Initially the ?GL_BLEND_COLOR is set to (0, 0, 0, 0).

See **external** documentation.

```
blendEquation(Mode) -> ok
```

Types:

```
Mode = enum()
```

Specify the equation used for both the RGB blend equation and the Alpha blend equation

The blend equations determine how a new pixel (the "source" color) is combined with a pixel already in the framebuffer (the "destination" color). This function sets both the RGB blend equation and the alpha blend equation to a single equation. `gl:blendEquationi` specifies the blend equation for a single draw buffer whereas `gl:blendEquation` sets the blend equation for all draw buffers.

See [external](#) documentation.

```
drawRangeElements(Mode, Start, End, Count, Type, Indices) -> ok
```

Types:

```
Mode = enum()
Start = integer()
End = integer()
Count = integer()
Type = enum()
Indices = offset() | mem()
```

Render primitives from array data

`gl:drawRangeElements` is a restricted form of `gl:drawElements/4`. `Mode`, `Start`, `End`, and `Count` match the corresponding arguments to `gl:drawElements/4`, with the additional constraint that all values in the arrays `Count` must lie between `Start` and `End`, inclusive.

See [external](#) documentation.

```
texImage3D(Target, Level, InternalFormat, Width, Height, Depth, Border,
Format, Type, Pixels) -> ok
```

Types:

```
Target = enum()
Level = integer()
InternalFormat = integer()
Width = integer()
Height = integer()
Depth = integer()
Border = integer()
Format = enum()
Type = enum()
Pixels = offset() | mem()
```

Specify a three-dimensional texture image

Texturing maps a portion of a specified texture image onto each graphical primitive for which texturing is enabled. To enable and disable three-dimensional texturing, call `gl:enable/1` and `gl:enable/1` with argument `?GL_TEXTURE_3D`.

See [external](#) documentation.

`texSubImage3D(Target, Level, Xoffset, Yoffset, Zoffset, Width, Height, Depth, Format, Type, Pixels) -> ok`

Types:

```
Target = enum()
Level = integer()
Xoffset = integer()
Yoffset = integer()
Zoffset = integer()
Width = integer()
Height = integer()
Depth = integer()
Format = enum()
Type = enum()
Pixels = offset() | mem()
```

`glTexSubImage`

See *external* documentation.

`copyTexSubImage3D(Target, Level, Xoffset, Yoffset, Zoffset, X, Y, Width, Height) -> ok`

Types:

```
Target = enum()
Level = integer()
Xoffset = integer()
Yoffset = integer()
Zoffset = integer()
X = integer()
Y = integer()
Width = integer()
Height = integer()
```

Copy a three-dimensional texture subimage

`gl:copyTexSubImage3D` replaces a rectangular portion of a three-dimensional texture image with pixels from the current `?GL_READ_BUFFER` (rather than from main memory, as is the case for `gl:texSubImage1D/7`).

See *external* documentation.

`colorTable(Target, Internalformat, Width, Format, Type, Table) -> ok`

Types:

```
Target = enum()
Internalformat = enum()
Width = integer()
Format = enum()
Type = enum()
Table = offset() | mem()
```

Define a color lookup table

gl:colorTable may be used in two ways: to test the actual size and color resolution of a lookup table given a particular set of parameters, or to load the contents of a color lookup table. Use the targets ?GL_PROXY_* for the first case and the other targets for the second case.

See **external** documentation.

colorTableParameterfv(Target, Pname, Params) -> ok

Types:

```
Target = enum()
Pname = enum()
Params = {float(), float(), float(), float()}
```

Set color lookup table parameters

gl:colorTableParameter is used to specify the scale factors and bias terms applied to color components when they are loaded into a color table. Target indicates which color table the scale and bias terms apply to; it must be set to ?GL_COLOR_TABLE, ?GL_POST_CONVOLUTION_COLOR_TABLE , or ?GL_POST_COLOR_MATRIX_COLOR_TABLE.

See **external** documentation.

colorTableParameteriv(Target, Pname, Params) -> ok

Types:

```
Target = enum()
Pname = enum()
Params = {integer(), integer(), integer(), integer()}}
```

See *colorTableParameterfv/3*

copyColorTable(Target, Internalformat, X, Y, Width) -> ok

Types:

```
Target = enum()
Internalformat = enum()
X = integer()
Y = integer()
Width = integer()
```

Copy pixels into a color table

gl:copyColorTable loads a color table with pixels from the current ?GL_READ_BUFFER (rather than from main memory, as is the case for *gl:colorTable/6*).

See **external** documentation.

getColorTable(Target, Format, Type, Table) -> ok

Types:

```
Target = enum()
Format = enum()
Type = enum()
Table = mem()
```

Retrieve contents of a color lookup table

gl:getColorTable returns in Table the contents of the color table specified by Target . No pixel transfer operations are performed, but pixel storage modes that are applicable to *gl:readPixels/7* are performed.

See **external** documentation.

```
getColorTableParameterfv(Target, Pname) -> {float(), float(), float(),
float()}
```

Types:

```
Target = enum()
Pname = enum()
```

Get color lookup table parameters

Returns parameters specific to color table Target .

See **external** documentation.

```
getColorTableParameteriv(Target, Pname) -> {integer(), integer(), integer(),
integer()}
```

Types:

```
Target = enum()
Pname = enum()
```

See *getColorTableParameterfv/2*

```
colorSubTable(Target, Start, Count, Format, Type, Data) -> ok
```

Types:

```
Target = enum()
Start = integer()
Count = integer()
Format = enum()
Type = enum()
Data = offset() | mem()
```

Respecify a portion of a color table

gl:colorSubTable is used to respecify a contiguous portion of a color table previously defined using *gl:colorTable/6* . The pixels referenced by Data replace the portion of the existing table from indices Start to start +count-1, inclusive. This region may not include any entries outside the range of the color table as it was originally specified. It is not an error to specify a subtexture with width of 0, but such a specification has no effect.

See **external** documentation.

```
copyColorSubTable(Target, Start, X, Y, Width) -> ok
```

Types:

```
Target = enum()
Start = integer()
X = integer()
Y = integer()
Width = integer()
```

Respecify a portion of a color table

gl:copyColorSubTable is used to respecify a contiguous portion of a color table previously defined using *gl:colorTable/6*. The pixels copied from the framebuffer replace the portion of the existing table from indices Start to start+x-1, inclusive. This region may not include any entries outside the range of the color table, as was originally specified. It is not an error to specify a subtexture with width of 0, but such a specification has no effect.

See **external** documentation.

convolutionFilter1D(Target, Internalformat, Width, Format, Type, Image) -> ok
Types:

```
Target = enum()
Internalformat = enum()
Width = integer()
Format = enum()
Type = enum()
Image = offset() | mem()
```

Define a one-dimensional convolution filter

gl:convolutionFilter1D builds a one-dimensional convolution filter kernel from an array of pixels.

See **external** documentation.

convolutionFilter2D(Target, Internalformat, Width, Height, Format, Type, Image) -> ok
Types:

```
Target = enum()
Internalformat = enum()
Width = integer()
Height = integer()
Format = enum()
Type = enum()
Image = offset() | mem()
```

Define a two-dimensional convolution filter

gl:convolutionFilter2D builds a two-dimensional convolution filter kernel from an array of pixels.

See **external** documentation.

convolutionParameterf(Target, Pname, Params) -> ok

Types:

```
Target = enum()
Pname = enum()
Params = tuple()
```

Set convolution parameters

gl:convolutionParameter sets the value of a convolution parameter.

See **external** documentation.

convolutionParameterfv(Target::enum(), Pname::enum(), Params) -> ok

Types:

```
Params = {Params::tuple()}
```

Equivalent to *convolutionParameterf*(*Target*, *Pname*, *Params*).

convolutionParameteri(*Target*, *Pname*, *Params*) -> ok

Types:

```
Target = enum()
Pname = enum()
Params = tuple()
```

See *convolutionParameterf*/3

convolutionParameteriv(*Target*::enum(), *Pname*::enum(), *Params*) -> ok

Types:

```
Params = {Params::tuple()}
```

Equivalent to *convolutionParameteri*(*Target*, *Pname*, *Params*).

copyConvolutionFilter1D(*Target*, *Internalformat*, *X*, *Y*, *Width*) -> ok

Types:

```
Target = enum()
Internalformat = enum()
X = integer()
Y = integer()
Width = integer()
```

Copy pixels into a one-dimensional convolution filter

gl:*copyConvolutionFilter1D* defines a one-dimensional convolution filter kernel with pixels from the current ?GL_READ_BUFFER (rather than from main memory, as is the case for *gl:convolutionFilter1D/6*).

See **external** documentation.

copyConvolutionFilter2D(*Target*, *Internalformat*, *X*, *Y*, *Width*, *Height*) -> ok

Types:

```
Target = enum()
Internalformat = enum()
X = integer()
Y = integer()
Width = integer()
Height = integer()
```

Copy pixels into a two-dimensional convolution filter

gl:*copyConvolutionFilter2D* defines a two-dimensional convolution filter kernel with pixels from the current ?GL_READ_BUFFER (rather than from main memory, as is the case for *gl:convolutionFilter2D/7*).

See **external** documentation.

getConvolutionFilter(*Target*, *Format*, *Type*, *Image*) -> ok

Types:

```
Target = enum()
```

```
Format = enum()
Type = enum()
Image = mem()
```

Get current 1D or 2D convolution filter kernel

gl:getConvolutionFilter returns the current 1D or 2D convolution filter kernel as an image. The one- or two-dimensional image is placed in `Image` according to the specifications in `Format` and `Type`. No pixel transfer operations are performed on this image, but the relevant pixel storage modes are applied.

See **external** documentation.

```
getConvolutionParameterfv(Target, Pname) -> {float(), float(), float(),
float()}
```

Types:

```
Target = enum()
Pname = enum()
```

Get convolution parameters

gl:getConvolutionParameter retrieves convolution parameters. `Target` determines which convolution filter is queried. `Pname` determines which parameter is returned:

See **external** documentation.

```
getConvolutionParameteriv(Target, Pname) -> {integer(), integer(), integer(),
integer()}
```

Types:

```
Target = enum()
Pname = enum()
```

See *getConvolutionParameterfv/2*

```
separableFilter2D(Target, Internalformat, Width, Height, Format, Type, Row,
Column) -> ok
```

Types:

```
Target = enum()
Internalformat = enum()
Width = integer()
Height = integer()
Format = enum()
Type = enum()
Row = offset() | mem()
Column = offset() | mem()
```

Define a separable two-dimensional convolution filter

gl:separableFilter2D builds a two-dimensional separable convolution filter kernel from two arrays of pixels.

See **external** documentation.

```
getHistogram(Target, Reset, Format, Type, Values) -> ok
```

Types:

```
Target = enum()
Reset = 0 | 1
Format = enum()
Type = enum()
Values = mem()
```

Get histogram table

gl:getHistogram returns the current histogram table as a one-dimensional image with the same width as the histogram. No pixel transfer operations are performed on this image, but pixel storage modes that are applicable to 1D images are honored.

See **external** documentation.

getHistogramParameterfv(Target, Pname) -> {float()}

Types:

```
Target = enum()
Pname = enum()
```

Get histogram parameters

gl:getHistogramParameter is used to query parameter values for the current histogram or for a proxy. The histogram state information may be queried by calling gl:getHistogramParameter with a Target of ?GL_HISTOGRAM (to obtain information for the current histogram table) or ?GL_PROXY_HISTOGRAM (to obtain information from the most recent proxy request) and one of the following values for the Pname argument:

See **external** documentation.

getHistogramParameteriv(Target, Pname) -> {integer()}

Types:

```
Target = enum()
Pname = enum()
```

See *getHistogramParameterfv/2*

getMinmax(Target, Reset, Format, Types, Values) -> ok

Types:

```
Target = enum()
Reset = 0 | 1
Format = enum()
Types = enum()
Values = mem()
```

Get minimum and maximum pixel values

gl:getMinmax returns the accumulated minimum and maximum pixel values (computed on a per-component basis) in a one-dimensional image of width 2. The first set of return values are the minima, and the second set of return values are the maxima. The format of the return values is determined by Format , and their type is determined by Types .

See **external** documentation.

getMinmaxParameterfv(Target, Pname) -> {float()}

Types:

```
Target = enum()
Pname = enum()
```

Get minmax parameters

gl:getMinmaxParameter retrieves parameters for the current minmax table by setting Pname to one of the following values:

See **external** documentation.

```
getMinmaxParameteriv(Target, Pname) -> {integer()}
```

Types:

```
Target = enum()
Pname = enum()
```

See *getMinmaxParameterfv/2*

```
histogram(Target, Width, Internalformat, Sink) -> ok
```

Types:

```
Target = enum()
Width = integer()
Internalformat = enum()
Sink = 0 | 1
```

Define histogram table

When ?GL_HISTOGRAM is enabled, RGBA color components are converted to histogram table indices by clamping to the range [0,1], multiplying by the width of the histogram table, and rounding to the nearest integer. The table entries selected by the RGBA indices are then incremented. (If the internal format of the histogram table includes luminance, then the index derived from the R color component determines the luminance table entry to be incremented.) If a histogram table entry is incremented beyond its maximum value, then its value becomes undefined. (This is not an error.)

See **external** documentation.

```
minmax(Target, Internalformat, Sink) -> ok
```

Types:

```
Target = enum()
Internalformat = enum()
Sink = 0 | 1
```

Define minmax table

When ?GL_MINMAX is enabled, the RGBA components of incoming pixels are compared to the minimum and maximum values for each component, which are stored in the two-element minmax table. (The first element stores the minima, and the second element stores the maxima.) If a pixel component is greater than the corresponding component in the maximum element, then the maximum element is updated with the pixel component value. If a pixel component is less than the corresponding component in the minimum element, then the minimum element is updated with the pixel component value. (In both cases, if the internal format of the minmax table includes luminance, then the R color component of incoming pixels is used for comparison.) The contents of the minmax table may be retrieved at a later time by calling *gl:getMinmax/5*. The minmax operation is enabled or disabled by calling *gl:enable/1* or *gl:enable/1*, respectively, with an argument of ?GL_MINMAX.

See **external** documentation.

```
resetHistogram(Target) -> ok
```

Types:

Target = *enum()*

Reset histogram table entries to zero

gl:resetHistogram resets all the elements of the current histogram table to zero.

See **external** documentation.

```
resetMinmax(Target) -> ok
```

Types:

Target = *enum()*

Reset minmax table entries to initial values

gl:resetMinmax resets the elements of the current minmax table to their initial values: the **maximum** element receives the minimum possible component values, and the **minimum** element receives the maximum possible component values.

See **external** documentation.

```
activeTexture(Texture) -> ok
```

Types:

Texture = *enum()*

Select active texture unit

gl:activeTexture selects which texture unit subsequent texture state calls will affect. The number of texture units an implementation supports is implementation dependent, but must be at least 80.

See **external** documentation.

```
sampleCoverage(Value, Invert) -> ok
```

Types:

Value = *clamp()*

Invert = 0 | 1

Specify multisample coverage parameters

Multisampling samples a pixel multiple times at various implementation-dependent subpixel locations to generate antialiasing effects. Multisampling transparently antialiases points, lines, polygons, and images if it is enabled.

See **external** documentation.

```
compressedTexImage3D(Target, Level, Internalformat, Width, Height, Depth,
Border, ImageSize, Data) -> ok
```

Types:

Target = *enum()*
Level = *integer()*
Internalformat = *enum()*
Width = *integer()*
Height = *integer()*
Depth = *integer()*

```
Border = integer()
ImageSize = integer()
Data = offset() | mem()
```

Specify a three-dimensional texture image in a compressed format

Texturing allows elements of an image array to be read by shaders.

See **external** documentation.

```
compressedTexImage2D(Target, Level, Internalformat, Width, Height, Border,
ImageSize, Data) -> ok
```

Types:

```
Target = enum()
Level = integer()
Internalformat = enum()
Width = integer()
Height = integer()
Border = integer()
ImageSize = integer()
Data = offset() | mem()
```

Specify a two-dimensional texture image in a compressed format

Texturing allows elements of an image array to be read by shaders.

See **external** documentation.

```
compressedTexImage1D(Target, Level, Internalformat, Width, Border, ImageSize,
Data) -> ok
```

Types:

```
Target = enum()
Level = integer()
Internalformat = enum()
Width = integer()
Border = integer()
ImageSize = integer()
Data = offset() | mem()
```

Specify a one-dimensional texture image in a compressed format

Texturing allows elements of an image array to be read by shaders.

See **external** documentation.

```
compressedTexSubImage3D(Target, Level, Xoffset, Yoffset, Zoffset, Width,
Height, Depth, Format, ImageSize, Data) -> ok
```

Types:

```
Target = enum()
Level = integer()
Xoffset = integer()
```

```

Yoffset = integer()
Zoffset = integer()
Width = integer()
Height = integer()
Depth = integer()
Format = enum()
ImageSize = integer()
Data = offset() | mem()

```

Specify a three-dimensional texture subimage in a compressed format

Texturing allows elements of an image array to be read by shaders.

See **external** documentation.

`compressedTexSubImage2D(Target, Level, Xoffset, Yoffset, Width, Height, Format, ImageSize, Data) -> ok`

Types:

```

Target = enum()
Level = integer()
Xoffset = integer()
Yoffset = integer()
Width = integer()
Height = integer()
Format = enum()
ImageSize = integer()
Data = offset() | mem()

```

Specify a two-dimensional texture subimage in a compressed format

Texturing allows elements of an image array to be read by shaders.

See **external** documentation.

`compressedTexSubImage1D(Target, Level, Xoffset, Width, Format, ImageSize, Data) -> ok`

Types:

```

Target = enum()
Level = integer()
Xoffset = integer()
Width = integer()
Format = enum()
ImageSize = integer()
Data = offset() | mem()

```

Specify a one-dimensional texture subimage in a compressed format

Texturing allows elements of an image array to be read by shaders.

See **external** documentation.

`getCompressedTexImage(Target, Lod, Img) -> ok`

Types:

```
Target = enum()
Lod = integer()
Img = mem()
```

Return a compressed texture image

`gl:getCompressedTexImage` returns the compressed texture image associated with `Target` and `Lod` into `Img`. `Img` should be an array of `?GL_TEXTURE_COMPRESSED_IMAGE_SIZE` bytes. `Target` specifies whether the desired texture image was one specified by `gl:texImage1D/8` (`?GL_TEXTURE_1D`), `gl:texImage2D/9` (`?GL_TEXTURE_2D` or any of `?GL_TEXTURE_CUBE_MAP_*`), or `gl:texImage3D/10` (`?GL_TEXTURE_3D`). `Lod` specifies the level-of-detail number of the desired image.

See **external** documentation.

`clientActiveTexture(Texture) -> ok`

Types:

```
Texture = enum()
```

Select active texture unit

`gl:clientActiveTexture` selects the vertex array client state parameters to be modified by `gl:texCoordPointer/4`, and enabled or disabled with `gl:enableClientState/I` or `gl:enableClientState/I`, respectively, when called with a parameter of `?GL_TEXTURE_COORD_ARRAY`.

See **external** documentation.

`multiTexCoord1d(Target, S) -> ok`

Types:

```
Target = enum()
S = float()
```

Set the current texture coordinates

`gl:multiTexCoord` specifies texture coordinates in one, two, three, or four dimensions. `gl:multiTexCoord1` sets the current texture coordinates to (s 0 0 1); a call to `gl:multiTexCoord2` sets them to (s t 0 1). Similarly, `gl:multiTexCoord3` specifies the texture coordinates as (s t r 1), and `gl:multiTexCoord4` defines all four components explicitly as (s t r q).

See **external** documentation.

`multiTexCoord1dv(Target::enum(), V) -> ok`

Types:

```
V = {S::float()}
```

Equivalent to `multiTexCoord1d(Target, S)`.

`multiTexCoord1f(Target, S) -> ok`

Types:

```
Target = enum()
S = float()
```

See `multiTexCoord1d/2`

`multiTexCoord1fv(Target::enum(), V) -> ok`

Types:

```
V = {S::float()}
```

Equivalent to *multiTexCoord1f*(*Target*, *S*).

`multiTexCoord1i(Target, S) -> ok`

Types:

```
Target = enum()
S = integer()
```

See *multiTexCoordId/2*

`multiTexCoord1iv(Target::enum(), V) -> ok`

Types:

```
V = {S::integer()}
```

Equivalent to *multiTexCoord1i*(*Target*, *S*).

`multiTexCoord1ls(Target, S) -> ok`

Types:

```
Target = enum()
S = integer()
```

See *multiTexCoordId/2*

`multiTexCoord1sv(Target::enum(), V) -> ok`

Types:

```
V = {S::integer()}
```

Equivalent to *multiTexCoord1s*(*Target*, *S*).

`multiTexCoord2d(Target, S, T) -> ok`

Types:

```
Target = enum()
S = float()
T = float()
```

See *multiTexCoordId/2*

`multiTexCoord2dv(Target::enum(), V) -> ok`

Types:

```
V = {S::float(), T::float()}
```

Equivalent to *multiTexCoord2d*(*Target*, *S*, *T*).

`multiTexCoord2f(Target, S, T) -> ok`

Types:

```
Target = enum()
S = float()
```

```
T = float()
```

See *multiTexCoord1d/2*

```
multiTexCoord2fv(Target::enum(), V) -> ok
```

Types:

```
V = {S::float(), T::float()}
```

Equivalent to *multiTexCoord2f(Target, S, T)*.

```
multiTexCoord2i(Target, S, T) -> ok
```

Types:

```
Target = enum()
S = integer()
T = integer()
```

See *multiTexCoord1d/2*

```
multiTexCoord2iv(Target::enum(), V) -> ok
```

Types:

```
V = {S::integer(), T::integer()}
```

Equivalent to *multiTexCoord2i(Target, S, T)*.

```
multiTexCoord2s(Target, S, T) -> ok
```

Types:

```
Target = enum()
S = integer()
T = integer()
```

See *multiTexCoord1d/2*

```
multiTexCoord2sv(Target::enum(), V) -> ok
```

Types:

```
V = {S::integer(), T::integer()}
```

Equivalent to *multiTexCoord2s(Target, S, T)*.

```
multiTexCoord3d(Target, S, T, R) -> ok
```

Types:

```
Target = enum()
S = float()
T = float()
R = float()
```

See *multiTexCoord1d/2*

```
multiTexCoord3dv(Target::enum(), V) -> ok
```

Types:

```
V = {S::float(), T::float(), R::float()}
```

Equivalent to *multiTexCoord3d*(*Target*, *S*, *T*, *R*).

multiTexCoord3f(*Target*, *S*, *T*, *R*) -> ok

Types:

```
Target = enum()
S = float()
T = float()
R = float()
```

See *multiTexCoordId/2*

multiTexCoord3fv(*Target*::enum(), *V*) -> ok

Types:

```
V = {S::float(), T::float(), R::float()}
```

Equivalent to *multiTexCoord3f*(*Target*, *S*, *T*, *R*).

multiTexCoord3i(*Target*, *S*, *T*, *R*) -> ok

Types:

```
Target = enum()
S = integer()
T = integer()
R = integer()
```

See *multiTexCoordId/2*

multiTexCoord3iv(*Target*::enum(), *V*) -> ok

Types:

```
V = {S::integer(), T::integer(), R::integer()}
```

Equivalent to *multiTexCoord3i*(*Target*, *S*, *T*, *R*).

multiTexCoord3s(*Target*, *S*, *T*, *R*) -> ok

Types:

```
Target = enum()
S = integer()
T = integer()
R = integer()
```

See *multiTexCoordId/2*

multiTexCoord3sv(*Target*::enum(), *V*) -> ok

Types:

```
V = {S::integer(), T::integer(), R::integer()}
```

Equivalent to *multiTexCoord3s*(*Target*, *S*, *T*, *R*).

multiTexCoord4d(*Target*, *S*, *T*, *R*, *Q*) -> ok

Types:

```
Target = enum()
S = float()
T = float()
R = float()
Q = float()
```

See *multiTexCoord1d/2*

multiTexCoord4dv(Target::enum(), V) -> ok

Types:

```
V = {S::float(), T::float(), R::float(), Q::float()}
```

Equivalent to *multiTexCoord4d*(*Target*, *S*, *T*, *R*, *Q*).

multiTexCoord4f(Target, S, T, R, Q) -> ok

Types:

```
Target = enum()
S = float()
T = float()
R = float()
Q = float()
```

See *multiTexCoord1d/2*

multiTexCoord4fv(Target::enum(), V) -> ok

Types:

```
V = {S::float(), T::float(), R::float(), Q::float()}
```

Equivalent to *multiTexCoord4f*(*Target*, *S*, *T*, *R*, *Q*).

multiTexCoord4i(Target, S, T, R, Q) -> ok

Types:

```
Target = enum()
S = integer()
T = integer()
R = integer()
Q = integer()
```

See *multiTexCoord1d/2*

multiTexCoord4iv(Target::enum(), V) -> ok

Types:

```
V = {S::integer(), T::integer(), R::integer(), Q::integer()}
```

Equivalent to *multiTexCoord4i*(*Target*, *S*, *T*, *R*, *Q*).

multiTexCoord4s(Target, S, T, R, Q) -> ok

Types:

```
Target = enum()
```

```
s = integer()
T = integer()
R = integer()
Q = integer()
```

See *multiTexCoordId/2*

multiTexCoord4sv(Target::enum(), V) -> ok

Types:

```
V = {S::integer(), T::integer(), R::integer(), Q::integer()}
```

Equivalent to *multiTexCoord4s*(*Target*, *S*, *T*, *R*, *Q*).

loadTransposeMatrixf(M) -> ok

Types:

```
M = matrix()
```

Replace the current matrix with the specified row-major ordered matrix

gl:loadTransposeMatrix replaces the current matrix with the one whose elements are specified by M . The current matrix is the projection matrix, modelview matrix, or texture matrix, depending on the current matrix mode (see gl:matrixMode/1).

See **external** documentation.

loadTransposeMatrixd(M) -> ok

Types:

```
M = matrix()
```

See *loadTransposeMatrixf/1*

multTransposeMatrixf(M) -> ok

Types:

```
M = matrix()
```

Multiply the current matrix with the specified row-major ordered matrix

gl:multTransposeMatrix multiplies the current matrix with the one specified using M , and replaces the current matrix with the product.

See **external** documentation.

multTransposeMatrixd(M) -> ok

Types:

```
M = matrix()
```

See *multTransposeMatrixf/1*

blendFuncSeparate(SfactorRGB, DfactorRGB, SfactorAlpha, DfactorAlpha) -> ok

Types:

```
SfactorRGB = enum()
DfactorRGB = enum()
SfactorAlpha = enum()
```

```
DfactorAlpha = enum()
```

Specify pixel arithmetic for RGB and alpha components separately

Pixels can be drawn using a function that blends the incoming (source) RGBA values with the RGBA values that are already in the frame buffer (the destination values). Blending is initially disabled. Use `gl:enable/1` and `gl:disable/1` with argument `?GL_BLEND` to enable and disable blending.

See **external** documentation.

```
multiDrawArrays(Mode, First, Count) -> ok
```

Types:

```
Mode = enum()
First = [integer() | mem()]
Count = [integer() | mem()]
```

Render multiple sets of primitives from array data

`gl:multiDrawArrays` specifies multiple sets of geometric primitives with very few subroutine calls. Instead of calling a GL procedure to pass each individual vertex, normal, texture coordinate, edge flag, or color, you can prespecify separate arrays of vertices, normals, and colors and use them to construct a sequence of primitives with a single call to `gl:multiDrawArrays`.

See **external** documentation.

```
pointParameterf(Pname, Param) -> ok
```

Types:

```
Pname = enum()
Param = float()
```

Specify point parameters

The following values are accepted for `Pname`:

See **external** documentation.

```
pointParameterfv(Pname, Params) -> ok
```

Types:

```
Pname = enum()
Params = tuple()
```

See `pointParameterf/2`

```
pointParameteri(Pname, Param) -> ok
```

Types:

```
Pname = enum()
Param = integer()
```

See `pointParameterf/2`

```
pointParameteriv(Pname, Params) -> ok
```

Types:

```
Pname = enum()
Params = tuple()
```

See *pointParameterf/2*

fogCoordf(Coord) -> ok

Types:

Coord = float()

Set the current fog coordinates

gl:fogCoord specifies the fog coordinate that is associated with each vertex and the current raster position. The value specified is interpolated and used in computing the fog color (see *gl:fogf/2*).

See **external** documentation.

fogCoordfv(Coord) -> ok

Types:

Coord = {Coord::float()}

Equivalent to *fogCoordf(Coord)*.

fogCoordd(Coord) -> ok

Types:

Coord = float()

See *fogCoordf/I*

fogCoorddv(Coord) -> ok

Types:

Coord = {Coord::float()}

Equivalent to *fogCoordd(Coord)*.

fogCoordPointer(Type, Stride, Pointer) -> ok

Types:

Type = enum()

Stride = integer()

Pointer = offset() | mem()

Define an array of fog coordinates

gl:fogCoordPointer specifies the location and data format of an array of fog coordinates to use when rendering. Type specifies the data type of each fog coordinate, and Stride specifies the byte stride from one fog coordinate to the next, allowing vertices and attributes to be packed into a single array or stored in separate arrays.

See **external** documentation.

secondaryColor3b(Red, Green, Blue) -> ok

Types:

Red = integer()

Green = integer()

Blue = integer()

Set the current secondary color

The GL stores both a primary four-valued RGBA color and a secondary four-valued RGBA color (where alpha is always set to 0.0) that is associated with every vertex.

See **external** documentation.

`secondaryColor3bv(V) -> ok`

Types:

`v = {Red:::integer(), Green:::integer(), Blue:::integer()}`

Equivalent to `secondaryColor3b(Red, Green, Blue)`.

`secondaryColor3d(Red, Green, Blue) -> ok`

Types:

```
Red = float()  
Green = float()  
Blue = float()
```

See `secondaryColor3b/3`

`secondaryColor3dv(V) -> ok`

Types:

`v = {Red:::float(), Green:::float(), Blue:::float()}`

Equivalent to `secondaryColor3d(Red, Green, Blue)`.

`secondaryColor3f(Red, Green, Blue) -> ok`

Types:

```
Red = float()  
Green = float()  
Blue = float()
```

See `secondaryColor3b/3`

`secondaryColor3fv(V) -> ok`

Types:

`v = {Red:::float(), Green:::float(), Blue:::float()}`

Equivalent to `secondaryColor3f(Red, Green, Blue)`.

`secondaryColor3i(Red, Green, Blue) -> ok`

Types:

```
Red = integer()  
Green = integer()  
Blue = integer()
```

See `secondaryColor3b/3`

`secondaryColor3iv(V) -> ok`

Types:

`v = {Red:::integer(), Green:::integer(), Blue:::integer()}`

Equivalent to *secondaryColor3i*(Red, Green, Blue).

secondaryColor3s(Red, Green, Blue) -> ok

Types:

```
Red = integer()
Green = integer()
Blue = integer()
```

See *secondaryColor3b/3*

secondaryColor3sv(V) -> ok

Types:

```
V = {Red::integer(), Green::integer(), Blue::integer()}
```

Equivalent to *secondaryColor3s*(Red, Green, Blue).

secondaryColor3ub(Red, Green, Blue) -> ok

Types:

```
Red = integer()
Green = integer()
Blue = integer()
```

See *secondaryColor3b/3*

secondaryColor3ubv(V) -> ok

Types:

```
V = {Red::integer(), Green::integer(), Blue::integer()}
```

Equivalent to *secondaryColor3ub*(Red, Green, Blue).

secondaryColor3ui(Red, Green, Blue) -> ok

Types:

```
Red = integer()
Green = integer()
Blue = integer()
```

See *secondaryColor3b/3*

secondaryColor3uiv(V) -> ok

Types:

```
V = {Red::integer(), Green::integer(), Blue::integer()}
```

Equivalent to *secondaryColor3ui*(Red, Green, Blue).

secondaryColor3us(Red, Green, Blue) -> ok

Types:

```
Red = integer()
Green = integer()
Blue = integer()
```

See *secondaryColor3b/3*

secondaryColor3usv(V) -> ok

Types:

v = {Red:::integer(), Green:::integer(), Blue:::integer()}

Equivalent to *secondaryColor3us*(*Red*, *Green*, *Blue*).

secondaryColorPointer(Size, Type, Stride, Pointer) -> ok

Types:

```
Size = integer()
Type = enum()
Stride = integer()
Pointer = offset() | mem()
```

Define an array of secondary colors

gl:*secondaryColorPointer* specifies the location and data format of an array of color components to use when rendering. *Size* specifies the number of components per color, and must be 3. *Type* specifies the data type of each color component, and *Stride* specifies the byte stride from one color to the next, allowing vertices and attributes to be packed into a single array or stored in separate arrays.

See **external** documentation.

windowPos2d(X, Y) -> ok

Types:

```
X = float()
Y = float()
```

Specify the raster position in window coordinates for pixel operations

The GL maintains a 3D position in window coordinates. This position, called the raster position, is used to position pixel and bitmap write operations. It is maintained with subpixel accuracy. See *gl:bitmap/7* , *gl:drawPixels/5* , and *gl:copyPixels/5* .

See **external** documentation.

windowPos2dv(V) -> ok

Types:

v = {x::float(), y::float()}

Equivalent to *windowPos2d*(*X*, *Y*).

windowPos2f(X, Y) -> ok

Types:

```
X = float()
Y = float()
```

See *windowPos2d/2*

windowPos2fv(V) -> ok

Types:

```
V = {X::float(), Y::float()}
```

Equivalent to *windowPos2f(X, Y)*.

windowPos2i(X, Y) -> ok

Types:

```
X = integer()
Y = integer()
```

See *windowPos2d/2*

windowPos2iv(V) -> ok

Types:

```
V = {X::integer(), Y::integer()}
```

Equivalent to *windowPos2i(X, Y)*.

windowPos2s(X, Y) -> ok

Types:

```
X = integer()
Y = integer()
```

See *windowPos2d/2*

windowPos2sv(V) -> ok

Types:

```
V = {X::integer(), Y::integer()}
```

Equivalent to *windowPos2s(X, Y)*.

windowPos3d(X, Y, Z) -> ok

Types:

```
X = float()
Y = float()
Z = float()
```

See *windowPos2d/2*

windowPos3dv(V) -> ok

Types:

```
V = {X::float(), Y::float(), Z::float()}
```

Equivalent to *windowPos3d(X, Y, Z)*.

windowPos3f(X, Y, Z) -> ok

Types:

```
X = float()
Y = float()
Z = float()
```

See *windowPos2d/2*

`windowPos3fv(V) -> ok`

Types:

```
V = {X::float(), Y::float(), Z::float()}
```

Equivalent to `windowPos3f(X, Y, Z)`.

`windowPos3i(X, Y, Z) -> ok`

Types:

```
X = integer()  
Y = integer()  
Z = integer()
```

See `windowPos2d/2`

`windowPos3iv(V) -> ok`

Types:

```
V = {X::integer(), Y::integer(), Z::integer()}
```

Equivalent to `windowPos3i(X, Y, Z)`.

`windowPos3s(X, Y, Z) -> ok`

Types:

```
X = integer()  
Y = integer()  
Z = integer()
```

See `windowPos2d/2`

`windowPos3sv(V) -> ok`

Types:

```
V = {X::integer(), Y::integer(), Z::integer()}
```

Equivalent to `windowPos3s(X, Y, Z)`.

`genQueries(N) -> [integer()]`

Types:

```
N = integer()
```

Generate query object names

`gl:genQueries` returns `N` query object names in `Ids`. There is no guarantee that the names form a contiguous set of integers; however, it is guaranteed that none of the returned names was in use immediately before the call to `gl:genQueries`.

See **external** documentation.

`deleteQueries(Ids) -> ok`

Types:

```
Ids = [integer()]
```

Delete named query objects

gl:deleteQueries deletes N query objects named by the elements of the array `Ids`. After a query object is deleted, it has no contents, and its name is free for reuse (for example by `gl:genQueries/1`).

See **external** documentation.

`isQuery(Id) -> 0 | 1`

Types:

`Id = integer()`

Determine if a name corresponds to a query object

gl:isQuery returns `?GL_TRUE` if `Id` is currently the name of a query object. If `Id` is zero, or is a non-zero value that is not currently the name of a query object, or if an error occurs, gl:isQuery returns `?GL_FALSE`.

See **external** documentation.

`beginQuery(Target, Id) -> ok`

Types:

`Target = enum()`

`Id = integer()`

Delimit the boundaries of a query object

gl:beginQuery and `gl:beginQuery/2` delimit the boundaries of a query object. Query must be a name previously returned from a call to `gl:genQueries/1`. If a query object with name `Id` does not yet exist it is created with the type determined by `Target`. `Target` must be one of `?GL_SAMPLES_PASSED`, `?GL_ANY_SAMPLES_PASSED`, `?GL_PRIMITIVES_GENERATED`, `?GL_TRANSFORM_FEEDBACK_PRIMITIVES_WRITTEN`, or `?GL_TIME_ELAPSED`. The behavior of the query object depends on its type and is as follows.

See **external** documentation.

`endQuery(Target) -> ok`

Types:

`Target = enum()`

See `beginQuery/2`

`getQueryiv(Target, Pname) -> integer()`

Types:

`Target = enum()`

`Pname = enum()`

glGetQuery

See *external* documentation.

`getQueryObjectiv(Id, Pname) -> integer()`

Types:

`Id = integer()`

`Pname = enum()`

Return parameters of a query object

gl:getQueryObject returns in `Params` a selected parameter of the query object specified by `Id`.

See **external** documentation.

getQueryObjectuiv(Id, Pname) -> integer()

Types:

```
Id = integer()
Pname = enum()
```

See *getQueryObjectiv/2*

bindBuffer(Target, Buffer) -> ok

Types:

```
Target = enum()
Buffer = integer()
```

Bind a named buffer object

gl:bindBuffer binds a buffer object to the specified buffer binding point. Calling gl:bindBuffer with Target set to one of the accepted symbolic constants and Buffer set to the name of a buffer object binds that buffer object name to the target. If no buffer object with name Buffer exists, one is created with that name. When a buffer object is bound to a target, the previous binding for that target is automatically broken.

See **external** documentation.

deleteBuffers(Buffers) -> ok

Types:

```
Buffers = [integer()]
```

Delete named buffer objects

gl:deleteBuffers deletes N buffer objects named by the elements of the array Buffers . After a buffer object is deleted, it has no contents, and its name is free for reuse (for example by gl:genBuffers/1). If a buffer object that is currently bound is deleted, the binding reverts to 0 (the absence of any buffer object).

See **external** documentation.

genBuffers(N) -> [integer()]

Types:

```
N = integer()
```

Generate buffer object names

gl:genBuffers returns N buffer object names in Buffers . There is no guarantee that the names form a contiguous set of integers; however, it is guaranteed that none of the returned names was in use immediately before the call to gl:genBuffers .

See **external** documentation.

isBuffer(Buffer) -> 0 | 1

Types:

```
Buffer = integer()
```

Determine if a name corresponds to a buffer object

gl:isBuffer returns ?GL_TRUE if Buffer is currently the name of a buffer object. If Buffer is zero, or is a non-zero value that is not currently the name of a buffer object, or if an error occurs, gl:isBuffer returns ?GL_FALSE .

See **external** documentation.

bufferData(Target, Size, Data, Usage) -> ok

Types:

```
Target = enum()
Size = integer()
Data = offset() | mem()
Usage = enum()
```

Creates and initializes a buffer object's data store

gl:bufferData creates a new data store for the buffer object currently bound to Target . Any pre-existing data store is deleted. The new data store is created with the specified Size in bytes and Usage . If Data is not ?NULL, the data store is initialized with data from this pointer. In its initial state, the new data store is not mapped, it has a ?NULL mapped pointer, and its mapped access is ?GL_READ_WRITE .

See **external** documentation.

bufferSubData(Target, Offset, Size, Data) -> ok

Types:

```
Target = enum()
Offset = integer()
Size = integer()
Data = offset() | mem()
```

Updates a subset of a buffer object's data store

gl:bufferSubData redefines some or all of the data store for the buffer object currently bound to Target . Data starting at byte offset Offset and extending for Size bytes is copied to the data store from the memory pointed to by Data . An error is thrown if Offset and Size together define a range beyond the bounds of the buffer object's data store.

See **external** documentation.

getBufferSubData(Target, Offset, Size, Data) -> ok

Types:

```
Target = enum()
Offset = integer()
Size = integer()
Data = mem()
```

Returns a subset of a buffer object's data store

gl:getBufferSubData returns some or all of the data from the buffer object currently bound to Target . Data starting at byte offset Offset and extending for Size bytes is copied from the data store to the memory pointed to by Data . An error is thrown if the buffer object is currently mapped, or if Offset and Size together define a range beyond the bounds of the buffer object's data store.

See **external** documentation.

getBufferParameteriv(Target, Pname) -> integer()

Types:

```
Target = enum()
```

Pname = *enum()*

Return parameters of a buffer object

gl:getBufferParameteriv returns in *Data* a selected parameter of the buffer object specified by *Target*.

See **external** documentation.

blendEquationSeparate(*ModeRGB*, *ModeAlpha*) -> ok

Types:

ModeRGB = *enum()*

ModeAlpha = *enum()*

Set the RGB blend equation and the alpha blend equation separately

The blend equations determines how a new pixel (the "source" color) is combined with a pixel already in the framebuffer (the "destination" color). These functions specify one blend equation for the RGB-color components and one blend equation for the alpha component. gl:blendEquationSeparatei specifies the blend equations for a single draw buffer whereas gl:blendEquationSeparate sets the blend equations for all draw buffers.

See **external** documentation.

drawBuffers(*Bufs*) -> ok

Types:

Bufs = [*enum()*]

Specifies a list of color buffers to be drawn into

gl:drawBuffers defines an array of buffers into which outputs from the fragment shader data will be written. If a fragment shader writes a value to one or more user defined output variables, then the value of each variable will be written into the buffer specified at a location within *Bufs* corresponding to the location assigned to that user defined output. The draw buffer used for user defined outputs assigned to locations greater than or equal to N is implicitly set to ?GL_NONE and any data written to such an output is discarded.

See **external** documentation.

stencilOpSeparate(*Face*, *Sfail*, *Dpfail*, *Dppass*) -> ok

Types:

Face = *enum()*

Sfail = *enum()*

Dpfail = *enum()*

Dppass = *enum()*

Set front and/or back stencil test actions

Stenciling, like depth-buffering, enables and disables drawing on a per-pixel basis. You draw into the stencil planes using GL drawing primitives, then render geometry and images, using the stencil planes to mask out portions of the screen. Stenciling is typically used in multipass rendering algorithms to achieve special effects, such as decals, outlining, and constructive solid geometry rendering.

See **external** documentation.

stencilFuncSeparate(*Face*, *Func*, *Ref*, *Mask*) -> ok

Types:

Face = *enum()*

```
Func = enum()
Ref = integer()
Mask = integer()
```

Set front and/or back function and reference value for stencil testing

Stenciling, like depth-buffering, enables and disables drawing on a per-pixel basis. You draw into the stencil planes using GL drawing primitives, then render geometry and images, using the stencil planes to mask out portions of the screen. Stenciling is typically used in multipass rendering algorithms to achieve special effects, such as decals, outlining, and constructive solid geometry rendering.

See [external documentation](#).

stencilMaskSeparate(Face, Mask) -> ok

Types:

```
Face = enum()
Mask = integer()
```

Control the front and/or back writing of individual bits in the stencil planes

gl:stencilMaskSeparate controls the writing of individual bits in the stencil planes. The least significant n bits of Mask , where n is the number of bits in the stencil buffer, specify a mask. Where a 1 appears in the mask, it's possible to write to the corresponding bit in the stencil buffer. Where a 0 appears, the corresponding bit is write-protected. Initially, all bits are enabled for writing.

See [external documentation](#).

attachShader(Program, Shader) -> ok

Types:

```
Program = integer()
Shader = integer()
```

Attaches a shader object to a program object

In order to create a complete shader program, there must be a way to specify the list of things that will be linked together. Program objects provide this mechanism. Shaders that are to be linked together in a program object must first be attached to that program object. gl:attachShader attaches the shader object specified by Shader to the program object specified by Program . This indicates that Shader will be included in link operations that will be performed on Program .

See [external documentation](#).

bindAttribLocation(Program, Index, Name) -> ok

Types:

```
Program = integer()
Index = integer()
Name = string()
```

Associates a generic vertex attribute index with a named attribute variable

gl:bindAttribLocation is used to associate a user-defined attribute variable in the program object specified by Program with a generic vertex attribute index. The name of the user-defined attribute variable is passed as a null terminated string in Name . The generic vertex attribute index to be bound to this variable is specified by Index . When Program is made part of current state, values provided via the generic vertex attribute Index will modify the value of the user-defined attribute variable specified by Name .

See **external** documentation.

`compileShader(Shader) -> ok`

Types:

`Shader = integer()`

Compiles a shader object

`gl:compileShader` compiles the source code strings that have been stored in the shader object specified by `Shader`.

See **external** documentation.

`createProgram() -> integer()`

Creates a program object

`gl:createProgram` creates an empty program object and returns a non-zero value by which it can be referenced. A program object is an object to which shader objects can be attached. This provides a mechanism to specify the shader objects that will be linked to create a program. It also provides a means for checking the compatibility of the shaders that will be used to create a program (for instance, checking the compatibility between a vertex shader and a fragment shader). When no longer needed as part of a program object, shader objects can be detached.

See **external** documentation.

`createShader(Type) -> integer()`

Types:

`Type = enum()`

Creates a shader object

`gl:createShader` creates an empty shader object and returns a non-zero value by which it can be referenced. A shader object is used to maintain the source code strings that define a shader. `ShaderType` indicates the type of shader to be created. Five types of shader are supported. A shader of type `?GL_VERTEX_SHADER` is a shader that is intended to run on the programmable vertex processor. A shader of type `?GL_TESS_CONTROL_SHADER` is a shader that is intended to run on the programmable tessellation processor in the control stage. A shader of type `?GL_TESS_EVALUATION_SHADER` is a shader that is intended to run on the programmable tessellation processor in the evaluation stage. A shader of type `?GL_GEOMETRY_SHADER` is a shader that is intended to run on the programmable geometry processor. A shader of type `?GL_FRAGMENT_SHADER` is a shader that is intended to run on the programmable fragment processor.

See **external** documentation.

`deleteProgram(Program) -> ok`

Types:

`Program = integer()`

Deletes a program object

`gl:deleteProgram` frees the memory and invalidates the name associated with the program object specified by `Program`. This command effectively undoes the effects of a call to `gl:createProgram/0`.

See **external** documentation.

`deleteShader(Shader) -> ok`

Types:

```
Shader = integer()
```

Deletes a shader object

gl:deleteShader frees the memory and invalidates the name associated with the shader object specified by **Shader**. This command effectively undoes the effects of a call to *gl:createShader/1*.

See **external** documentation.

detachShader(Program, Shader) -> ok

Types:

```
Program = integer()
Shader = integer()
```

Detaches a shader object from a program object to which it is attached

gl:detachShader detaches the shader object specified by **Shader** from the program object specified by **Program**. This command can be used to undo the effect of the command *gl:attachShader/2*.

See **external** documentation.

disableVertexAttribArray(Index) -> ok

Types:

```
Index = integer()
```

Enable or disable a generic vertex attribute array

gl:enableVertexAttribArray enables the generic vertex attribute array specified by **Index**. gl:disableVertexAttribArray disables the generic vertex attribute array specified by **Index**. By default, all client-side capabilities are disabled, including all generic vertex attribute arrays. If enabled, the values in the generic vertex attribute array will be accessed and used for rendering when calls are made to vertex array commands such as *gl:drawArrays/3*, *gl:drawElements/4*, *gl:drawRangeElements/6*, see *glMultiDrawElements*, or *gl:multiDrawArrays/3*.

See **external** documentation.

enableVertexAttribArray(Index) -> ok

Types:

```
Index = integer()
```

See *disableVertexAttribArray/1*

getActiveAttrib(Program, Index, BufSize) -> {Size::integer(), Type::enum(), Name::string()}

Types:

```
Program = integer()
Index = integer()
BufSize = integer()
```

Returns information about an active attribute variable for the specified program object

gl:getActiveAttrib returns information about an active attribute variable in the program object specified by **Program**. The number of active attributes can be obtained by calling *gl:getProgramiv/2* with the value ?GL_ACTIVE_ATTRIBUTES. A value of 0 for **Index** selects the first active attribute variable. Permissible values for **Index** range from 0 to the number of active attribute variables minus 1.

See **external** documentation.

`getActiveUniform(Program, Index, BufSize) -> {Size::integer(), Type::enum(), Name::string()}`

Types:

```
Program = integer()
Index = integer()
BufSize = integer()
```

Returns information about an active uniform variable for the specified program object

gl:getActiveUniform returns information about an active uniform variable in the program object specified by Program . The number of active uniform variables can be obtained by calling gl:getProgramiv/2 with the value ?GL_ACTIVE_UNIFORMS. A value of 0 for Index selects the first active uniform variable. Permissible values for Index range from 0 to the number of active uniform variables minus 1.

See **external** documentation.

`getAttachedShaders(Program, MaxCount) -> [integer()]`

Types:

```
Program = integer()
MaxCount = integer()
```

Returns the handles of the shader objects attached to a program object

gl:getAttachedShaders returns the names of the shader objects attached to Program . The names of shader objects that are attached to Program will be returned in Shaders . The actual number of shader names written into Shaders is returned in Count . If no shader objects are attached to Program , Count is set to 0. The maximum number of shader names that may be returned in Shaders is specified by MaxCount .

See **external** documentation.

`getAttribLocation(Program, Name) -> integer()`

Types:

```
Program = integer()
Name = string()
```

Returns the location of an attribute variable

gl:getAttribLocation queries the previously linked program object specified by Program for the attribute variable specified by Name and returns the index of the generic vertex attribute that is bound to that attribute variable. If Name is a matrix attribute variable, the index of the first column of the matrix is returned. If the named attribute variable is not an active attribute in the specified program object or if Name starts with the reserved prefix "gl_ ", a value of -1 is returned.

See **external** documentation.

`getProgramiv(Program, Pname) -> integer()`

Types:

```
Program = integer()
Pname = enum()
```

Returns a parameter from a program object

gl:getProgram returns in Params the value of a parameter for a specific program object. The following parameters are defined:

See **external** documentation.

`getProgramInfoLog(Program, BufSize) -> string()`

Types:

```
Program = integer()
BufSize = integer()
```

Returns the information log for a program object

gl:getProgramInfoLog returns the information log for the specified program object. The information log for a program object is modified when the program object is linked or validated. The string that is returned will be null terminated.

See **external** documentation.

`getShaderiv(Shader, Pname) -> integer()`

Types:

```
Shader = integer()
Pname = enum()
```

Returns a parameter from a shader object

gl:getShader returns in Params the value of a parameter for a specific shader object. The following parameters are defined:

See **external** documentation.

`getShaderInfoLog(Shader, BufSize) -> string()`

Types:

```
Shader = integer()
BufSize = integer()
```

Returns the information log for a shader object

gl:getShaderInfoLog returns the information log for the specified shader object. The information log for a shader object is modified when the shader is compiled. The string that is returned will be null terminated.

See **external** documentation.

`getShaderSource(Shader, BufSize) -> string()`

Types:

```
Shader = integer()
BufSize = integer()
```

Returns the source code string from a shader object

gl:getShaderSource returns the concatenation of the source code strings from the shader object specified by Shader . The source code strings for a shader object are the result of a previous call to `gl:shaderSource/2` . The string returned by the function will be null terminated.

See **external** documentation.

```
getUniformLocation(Program, Name) -> integer()
```

Types:

```
Program = integer()
Name = string()
```

Returns the location of a uniform variable

gl:getUniformLocation returns an integer that represents the location of a specific uniform variable within a program object. Name must be a null terminated string that contains no white space. Name must be an active uniform variable name in Program that is not a structure, an array of structures, or a subcomponent of a vector or a matrix. This function returns -1 if Name does not correspond to an active uniform variable in Program, if Name starts with the reserved prefix "gl_", or if Name is associated with an atomic counter or a named uniform block.

See **external** documentation.

```
getUniformfv(Program, Location) -> matrix()
```

Types:

```
Program = integer()
Location = integer()
```

Returns the value of a uniform variable

gl:getUniform returns in Params the value(s) of the specified uniform variable. The type of the uniform variable specified by Location determines the number of values returned. If the uniform variable is defined in the shader as a boolean, int, or float, a single value will be returned. If it is defined as a vec2, ivec2, or bvec2, two values will be returned. If it is defined as a vec3, ivec3, or bvec3, three values will be returned, and so on. To query values stored in uniform variables declared as arrays, call gl:getUniform for each element of the array. To query values stored in uniform variables declared as structures, call gl:getUniform for each field in the structure. The values for uniform variables declared as a matrix will be returned in column major order.

See **external** documentation.

```
getUniformiv(Program, Location) -> {integer(), integer(), integer(),
integer(), integer(), integer(), integer(), integer(), integer(),
integer(), integer(), integer(), integer(), integer() }
```

Types:

```
Program = integer()
Location = integer()
```

See *getUniformfv/2*

```
getVertexAttribdv(Index, Pname) -> {float(), float(), float(), float()}
```

Types:

```
Index = integer()
Pname = enum()
```

Return a generic vertex attribute parameter

gl:getVertexAttrib returns in Params the value of a generic vertex attribute parameter. The generic vertex attribute to be queried is specified by Index, and the parameter to be queried is specified by Pname.

See **external** documentation.

`getVertexAttribfv(Index, Pname) -> {float(), float(), float(), float()}`

Types:

Index = `integer()`

Pname = `enum()`

See `getVertexAttribdv/2`

`getVertexAttribiv(Index, Pname) -> {integer(), integer(), integer(), integer()}`

Types:

Index = `integer()`

Pname = `enum()`

See `getVertexAttribdv/2`

`isProgram(Program) -> 0 | 1`

Types:

Program = `integer()`

Determines if a name corresponds to a program object

`gl:isProgram` returns `?GL_TRUE` if `Program` is the name of a program object previously created with `gl:createProgram/0` and not yet deleted with `gl:deleteProgram/1`. If `Program` is zero or a non-zero value that is not the name of a program object, or if an error occurs, `gl:isProgram` returns `?GL_FALSE`.

See **external** documentation.

`isShader(Shader) -> 0 | 1`

Types:

Shader = `integer()`

Determines if a name corresponds to a shader object

`gl:isShader` returns `?GL_TRUE` if `Shader` is the name of a shader object previously created with `gl:createShader/1` and not yet deleted with `gl:deleteShader/1`. If `Shader` is zero or a non-zero value that is not the name of a shader object, or if an error occurs, `gl:isShader` returns `?GL_FALSE`.

See **external** documentation.

`linkProgram(Program) -> ok`

Types:

Program = `integer()`

Links a program object

`gl:linkProgram` links the program object specified by `Program`. If any shader objects of type `?GL_VERTEX_SHADER` are attached to `Program`, they will be used to create an executable that will run on the programmable vertex processor. If any shader objects of type `?GL_GEOMETRY_SHADER` are attached to `Program`, they will be used to create an executable that will run on the programmable geometry processor. If any shader objects of type `?GL_FRAGMENT_SHADER` are attached to `Program`, they will be used to create an executable that will run on the programmable fragment processor.

See **external** documentation.

gl

`shaderSource(Shader, String) -> ok`

Types:

```
Shader = integer()
String = iolist()
```

Replaces the source code in a shader object

`gl:shaderSource` sets the source code in `Shader` to the source code in the array of strings specified by `String`. Any source code previously stored in the shader object is completely replaced. The number of strings in the array is specified by `Count`. If `Length` is `?NULL`, each string is assumed to be null terminated. If `Length` is a value other than `?NULL`, it points to an array containing a string length for each of the corresponding elements of `String`. Each element in the `Length` array may contain the length of the corresponding string (the null character is not counted as part of the string length) or a value less than 0 to indicate that the string is null terminated. The source code strings are not scanned or parsed at this time; they are simply copied into the specified shader object.

See [external](#) documentation.

`useProgram(Program) -> ok`

Types:

```
Program = integer()
```

Installs a program object as part of current rendering state

`gl:useProgram` installs the program object specified by `Program` as part of current rendering state. One or more executables are created in a program object by successfully attaching shader objects to it with `gl:attachShader/2`, successfully compiling the shader objects with `gl:compileShader/1`, and successfully linking the program object with `gl:linkProgram/1`.

See [external](#) documentation.

`uniform1f(Location, V0) -> ok`

Types:

```
Location = integer()
V0 = float()
```

Specify the value of a uniform variable for the current program object

`gl:uniform` modifies the value of a uniform variable or a uniform variable array. The location of the uniform variable to be modified is specified by `Location`, which should be a value returned by `gl:getUniformLocation/2`. `gl:uniform` operates on the program object that was made part of current state by calling `gl:useProgram/1`.

See [external](#) documentation.

`uniform2f(Location, V0, V1) -> ok`

Types:

```
Location = integer()
V0 = float()
V1 = float()
```

See `uniform1f/2`

`uniform3f(Location, V0, V1, V2) -> ok`

Types:

```
Location = integer()
```

```
v0 = float()
v1 = float()
v2 = float()
```

See *uniformIf/2*

uniform4f(Location, V0, V1, V2, V3) -> ok

Types:

```
Location = integer()
v0 = float()
v1 = float()
v2 = float()
v3 = float()
```

See *uniformIf/2*

uniformli(Location, V0) -> ok

Types:

```
Location = integer()
v0 = integer()
```

See *uniformIf/2*

uniform2i(Location, V0, V1) -> ok

Types:

```
Location = integer()
v0 = integer()
v1 = integer()
```

See *uniformIf/2*

uniform3i(Location, V0, V1, V2) -> ok

Types:

```
Location = integer()
v0 = integer()
v1 = integer()
v2 = integer()
```

See *uniformIf/2*

uniform4i(Location, V0, V1, V2, V3) -> ok

Types:

```
Location = integer()
v0 = integer()
v1 = integer()
v2 = integer()
v3 = integer()
```

See *uniformIf/2*

`uniform1fv(Location, Value) -> ok`

Types:

```
Location = integer()  
Value = [float()]
```

See *uniformIf/2*

`uniform2fv(Location, Value) -> ok`

Types:

```
Location = integer()  
Value = [{float(), float()}]
```

See *uniformIf/2*

`uniform3fv(Location, Value) -> ok`

Types:

```
Location = integer()  
Value = [{float(), float(), float()}]
```

See *uniformIf/2*

`uniform4fv(Location, Value) -> ok`

Types:

```
Location = integer()  
Value = [{float(), float(), float(), float()}]
```

See *uniformIf/2*

`uniformliv(Location, Value) -> ok`

Types:

```
Location = integer()  
Value = [integer()]
```

See *uniformIf/2*

`uniform2iv(Location, Value) -> ok`

Types:

```
Location = integer()  
Value = [{integer(), integer()}]
```

See *uniformIf/2*

`uniform3iv(Location, Value) -> ok`

Types:

```
Location = integer()  
Value = [{integer(), integer(), integer()}]
```

See *uniformIf/2*

`uniform4iv(Location, Value) -> ok`

Types:

```
Location = integer()
Value = [{integer(), integer(), integer(), integer()}]
```

See *uniformIf/2*

`uniformMatrix2fv(Location, Transpose, Value) -> ok`

Types:

```
Location = integer()
Transpose = 0 | 1
Value = [{float(), float(), float(), float()}]
```

See *uniformIf/2*

`uniformMatrix3fv(Location, Transpose, Value) -> ok`

Types:

```
Location = integer()
Transpose = 0 | 1
Value = [{float(), float(), float(), float(), float(), float(),
          float(), float()}]
```

See *uniformIf/2*

`uniformMatrix4fv(Location, Transpose, Value) -> ok`

Types:

```
Location = integer()
Transpose = 0 | 1
Value = [{float(), float(), float(), float(), float(), float(),
          float(), float(), float(), float(), float(), float(),
          float(), float()}]
```

See *uniformIf/2*

`validateProgram(Program) -> ok`

Types:

```
Program = integer()
```

Validates a program object

gl:validateProgram checks to see whether the executables contained in Program can execute given the current OpenGL state. The information generated by the validation process will be stored in Program's information log. The validation information may consist of an empty string, or it may be a string containing information about how the current program object interacts with the rest of current OpenGL state. This provides a way for OpenGL implementers to convey more information about why the current program is inefficient, suboptimal, failing to execute, and so on.

See **external** documentation.

`vertexAttribId(Index, X) -> ok`

Types:

```
Index = integer()
```

```
x = float()
```

Specifies the value of a generic vertex attribute

The `gl:vertexAttrib` family of entry points allows an application to pass generic vertex attributes in numbered locations.

See **external** documentation.

```
vertexAttrib1dv(Index::integer(), V) -> ok
```

Types:

```
v = {x::float()}
```

Equivalent to `vertexAttribId(Index, X)`.

```
vertexAttrib1f(Index, X) -> ok
```

Types:

```
Index = integer()
```

```
x = float()
```

See `vertexAttribId/2`

```
vertexAttrib1fv(Index::integer(), V) -> ok
```

Types:

```
v = {x::float()}
```

Equivalent to `vertexAttribIf(Index, X)`.

```
vertexAttrib1s(Index, X) -> ok
```

Types:

```
Index = integer()
```

```
x = integer()
```

See `vertexAttribId/2`

```
vertexAttrib1sv(Index::integer(), V) -> ok
```

Types:

```
v = {x::integer()}
```

Equivalent to `vertexAttribIs(Index, X)`.

```
vertexAttrib2d(Index, X, Y) -> ok
```

Types:

```
Index = integer()
```

```
x = float()
```

```
y = float()
```

See `vertexAttribId/2`

```
vertexAttrib2dv(Index::integer(), V) -> ok
```

Types:

```
v = {x::float(), y::float()}
```

Equivalent to *vertexAttrib2d*(*Index*, *X*, *Y*).

vertexAttrib2f(*Index*, *X*, *Y*) -> ok

Types:

```
Index = integer()
X = float()
Y = float()
```

See *vertexAttrib1d/2*

vertexAttrib2fv(*Index*::integer(), *V*) -> ok

Types:

```
V = {X::float(), Y::float()}
```

Equivalent to *vertexAttrib2f*(*Index*, *X*, *Y*).

vertexAttrib2s(*Index*, *X*, *Y*) -> ok

Types:

```
Index = integer()
X = integer()
Y = integer()
```

See *vertexAttrib1d/2*

vertexAttrib2sv(*Index*::integer(), *V*) -> ok

Types:

```
V = {X::integer(), Y::integer()}
```

Equivalent to *vertexAttrib2s*(*Index*, *X*, *Y*).

vertexAttrib3d(*Index*, *X*, *Y*, *Z*) -> ok

Types:

```
Index = integer()
X = float()
Y = float()
Z = float()
```

See *vertexAttrib1d/2*

vertexAttrib3dv(*Index*::integer(), *V*) -> ok

Types:

```
V = {X::float(), Y::float(), Z::float()}
```

Equivalent to *vertexAttrib3d*(*Index*, *X*, *Y*, *Z*).

vertexAttrib3f(*Index*, *X*, *Y*, *Z*) -> ok

Types:

```
Index = integer()
X = float()
```

```
Y = float()  
Z = float()
```

See *vertexAttribId/2*

vertexAttrib3fv(Index::integer(), V) -> ok

Types:

```
V = {X::float(), Y::float(), Z::float()}
```

Equivalent to *vertexAttrib3f(Index, X, Y, Z)*.

vertexAttrib3s(Index, X, Y, Z) -> ok

Types:

```
Index = integer()  
X = integer()  
Y = integer()  
Z = integer()
```

See *vertexAttribId/2*

vertexAttrib3sv(Index::integer(), V) -> ok

Types:

```
V = {X::integer(), Y::integer(), Z::integer()}
```

Equivalent to *vertexAttrib3s(Index, X, Y, Z)*.

vertexAttrib4Nbv(Index, V) -> ok

Types:

```
Index = integer()  
V = {integer(), integer(), integer(), integer()}
```

See *vertexAttribId/2*

vertexAttrib4Niv(Index, V) -> ok

Types:

```
Index = integer()  
V = {integer(), integer(), integer(), integer()}
```

See *vertexAttribId/2*

vertexAttrib4Nsv(Index, V) -> ok

Types:

```
Index = integer()  
V = {integer(), integer(), integer(), integer()}
```

See *vertexAttribId/2*

vertexAttrib4Nub(Index, X, Y, Z, W) -> ok

Types:

```
Index = integer()
```

```

X = integer()
Y = integer()
Z = integer()
W = integer()

```

See *vertexAttrib1d/2*

vertexAttrib4Nubv(Index::integer(), V) -> ok

Types:

```

V = {X::integer(), Y::integer(), Z::integer(), W::integer()}

```

Equivalent to *vertexAttrib4Nub(Index, X, Y, Z, W)*.

vertexAttrib4Nuiv(Index, V) -> ok

Types:

```

Index = integer()
V = {integer(), integer(), integer(), integer()}

```

See *vertexAttrib1d/2*

vertexAttrib4Nusv(Index, V) -> ok

Types:

```

Index = integer()
V = {integer(), integer(), integer(), integer()}

```

See *vertexAttrib1d/2*

vertexAttrib4bv(Index, V) -> ok

Types:

```

Index = integer()
V = {integer(), integer(), integer(), integer()}

```

See *vertexAttrib1d/2*

vertexAttrib4d(Index, X, Y, Z, W) -> ok

Types:

```

Index = integer()
X = float()
Y = float()
Z = float()
W = float()

```

See *vertexAttrib1d/2*

vertexAttrib4dv(Index::integer(), V) -> ok

Types:

```

V = {X::float(), Y::float(), Z::float(), W::float()}

```

Equivalent to *vertexAttrib4d(Index, X, Y, Z, W)*.

`vertexAttrib4f(Index, X, Y, Z, W) -> ok`

Types:

```
Index = integer()
X = float()
Y = float()
Z = float()
W = float()
```

See `vertexAttribId/2`

`vertexAttrib4fv(Index::integer(), V) -> ok`

Types:

```
V = {X::float(), Y::float(), Z::float(), W::float()}
```

Equivalent to `vertexAttrib4f(Index, X, Y, Z, W)`.

`vertexAttrib4iv(Index, V) -> ok`

Types:

```
Index = integer()
V = {integer(), integer(), integer(), integer()}
```

See `vertexAttribId/2`

`vertexAttrib4s(Index, X, Y, Z, W) -> ok`

Types:

```
Index = integer()
X = integer()
Y = integer()
Z = integer()
W = integer()
```

See `vertexAttribId/2`

`vertexAttrib4sv(Index::integer(), V) -> ok`

Types:

```
V = {X::integer(), Y::integer(), Z::integer(), W::integer()}
```

Equivalent to `vertexAttrib4s(Index, X, Y, Z, W)`.

`vertexAttrib4ubv(Index, V) -> ok`

Types:

```
Index = integer()
V = {integer(), integer(), integer(), integer()}
```

See `vertexAttribId/2`

`vertexAttrib4uiv(Index, V) -> ok`

Types:

```
Index = integer()
```

```
V = {integer(), integer(), integer(), integer()}
```

See *vertexAttrib1d/2*

vertexAttrib4usv(Index, V) -> ok

Types:

```
Index = integer()
V = {integer(), integer(), integer(), integer()}
```

See *vertexAttrib1d/2*

vertexAttribPointer(Index, Size, Type, Normalized, Stride, Pointer) -> ok

Types:

```
Index = integer()
Size = integer()
Type = enum()
Normalized = 0 | 1
Stride = integer()
Pointer = offset() | mem()
```

Define an array of generic vertex attribute data

gl:vertexAttribPointer, gl:vertexAttribIPointer and gl:vertexAttribILPointer specify the location and data format of the array of generic vertex attributes at index Index to use when rendering. Size specifies the number of components per attribute and must be 1, 2, 3, 4, or ?GL_BGRA. Type specifies the data type of each component, and Stride specifies the byte stride from one attribute to the next, allowing vertices and attributes to be packed into a single array or stored in separate arrays.

See **external** documentation.

uniformMatrix2x3fv(Location, Transpose, Value) -> ok

Types:

```
Location = integer()
Transpose = 0 | 1
Value = [{float(), float(), float(), float(), float(), float()}]
```

See *uniformIf/2*

uniformMatrix3x2fv(Location, Transpose, Value) -> ok

Types:

```
Location = integer()
Transpose = 0 | 1
Value = [{float(), float(), float(), float(), float(), float()}]
```

See *uniformIf/2*

uniformMatrix2x4fv(Location, Transpose, Value) -> ok

Types:

```
Location = integer()
Transpose = 0 | 1
```

gl

```
Value = [{float(), float(), float(), float(), float(), float(),
          float()}]
```

See *uniformIf/2*

uniformMatrix4x2fv(Location, Transpose, Value) -> ok

Types:

```
Location = integer()
Transpose = 0 | 1
Value = [{float(), float(), float(), float(), float(), float(),
          float()}]
```

See *uniformIf/2*

uniformMatrix3x4fv(Location, Transpose, Value) -> ok

Types:

```
Location = integer()
Transpose = 0 | 1
Value = [{float(), float(), float(), float(), float(), float(),
          float(), float(), float(), float()}]
```

See *uniformIf/2*

uniformMatrix4x3fv(Location, Transpose, Value) -> ok

Types:

```
Location = integer()
Transpose = 0 | 1
Value = [{float(), float(), float(), float(), float(), float(),
          float(), float(), float(), float()}]
```

See *uniformIf/2*

colorMaski(Index, R, G, B, A) -> ok

Types:

```
Index = integer()
R = 0 | 1
G = 0 | 1
B = 0 | 1
A = 0 | 1
```

glColorMaski

See *external* documentation.

getBooleani_v(Target, Index) -> [0 | 1]

Types:

```
Target = enum()
Index = integer()
```

See *getBooleanv/I*

`getIntegeri_v(Target, Index) -> [integer()]`

Types:

```
Target = enum()
Index = integer()
```

See *getBooleanv/1*

`enablei(Target, Index) -> ok`

Types:

```
Target = enum()
Index = integer()
```

See *enable/1*

`disablei(Target, Index) -> ok`

Types:

```
Target = enum()
Index = integer()
```

`glEnablei`

See *external* documentation.

`isEnabledi(Target, Index) -> 0 | 1`

Types:

```
Target = enum()
Index = integer()
```

`glIsEnabledi`

See *external* documentation.

`beginTransformFeedback(PrimitiveMode) -> ok`

Types:

```
PrimitiveMode = enum()
```

Start transform feedback operation

Transform feedback mode captures the values of varying variables written by the vertex shader (or, if active, the geometry shader). Transform feedback is said to be active after a call to `gl:beginTransformFeedback` until a subsequent call to `gl:beginTransformFeedback/1`. Transform feedback commands must be paired.

See *external* documentation.

`endTransformFeedback() -> ok`

See *beginTransformFeedback/1*

`bindBufferRange(Target, Index, Buffer, Offset, Size) -> ok`

Types:

```
Target = enum()
Index = integer()
Buffer = integer()
```

```
Offset = integer()
Size = integer()
```

Bind a range within a buffer object to an indexed buffer target

gl:bindBufferRange binds a range the buffer object Buffer represented by Offset and Size to the binding point at index Index of the array of targets specified by Target . Each Target represents an indexed array of buffer binding points, as well as a single general binding point that can be used by other buffer manipulation functions such as *gl:bindBuffer/2* or see *glMapBuffer*. In addition to binding a range of Buffer to the indexed buffer binding target, gl:bindBufferBase also binds the range to the generic buffer binding point specified by Target .

See **external** documentation.

bindBufferBase(Target, Index, Buffer) -> ok

Types:

```
Target = enum()
Index = integer()
Buffer = integer()
```

Bind a buffer object to an indexed buffer target

gl:bindBufferBase binds the buffer object Buffer to the binding point at index Index of the array of targets specified by Target . Each Target represents an indexed array of buffer binding points, as well as a single general binding point that can be used by other buffer manipulation functions such as *gl:bindBuffer/2* or see *glMapBuffer*. In addition to binding Buffer to the indexed buffer binding target, gl:bindBufferBase also binds Buffer to the generic buffer binding point specified by Target .

See **external** documentation.

transformFeedbackVaryings(Program, Varyings, BufferMode) -> ok

Types:

```
Program = integer()
Varyings = iolist()
BufferMode = enum()
```

Specify values to record in transform feedback buffers

The names of the vertex or geometry shader outputs to be recorded in transform feedback mode are specified using gl:transformFeedbackVaryings. When a geometry shader is active, transform feedback records the values of selected geometry shader output variables from the emitted vertices. Otherwise, the values of the selected vertex shader outputs are recorded.

See **external** documentation.

getTransformFeedbackVarying(Program, Index, BufSize) -> {Size::integer(), Type::enum(), Name::string()}

Types:

```
Program = integer()
Index = integer()
BufSize = integer()
```

Retrieve information about varying variables selected for transform feedback

Information about the set of varying variables in a linked program that will be captured during transform feedback may be retrieved by calling gl:getTransformFeedbackVarying. gl:getTransformFeedbackVarying

provides information about the varying variable selected by `Index`. An `Index` of 0 selects the first varying variable specified in the `Varyings` array passed to `gl:transformFeedbackVaryings/3`, and an `Index` of `?GL_TRANSFORM_FEEDBACK_VARYINGS-1` selects the last such variable.

See [external documentation](#).

`clampColor(Target, Clamp) -> ok`

Types:

```
Target = enum()
Clamp = enum()
```

specify whether data read via

`gl:readPixels/7` should be clamped

`gl:clampColor` controls color clamping that is performed during `gl:readPixels/7`. `Target` must be `?GL_CLAMP_READ_COLOR`. If `Clamp` is `?GL_TRUE`, read color clamping is enabled; if `Clamp` is `?GL_FALSE`, read color clamping is disabled. If `Clamp` is `?GL_FIXED_ONLY`, read color clamping is enabled only if the selected read buffer has fixed point components and disabled otherwise.

See [external documentation](#).

`beginConditionalRender(Id, Mode) -> ok`

Types:

```
Id = integer()
Mode = enum()
```

Start conditional rendering

Conditional rendering is started using `gl:beginConditionalRender` and ended using `gl:endConditionalRender`. During conditional rendering, all vertex array commands, as well as `gl:clear/1` and `gl:clearBufferiv/3` have no effect if the (`?GL_SAMPLES_PASSED`) result of the query object `Id` is zero, or if the (`?GL_ANY_SAMPLES_PASSED`) result is `?GL_FALSE`. The results of commands setting the current vertex state, such as `gl:vertexAttribId/2` are undefined. If the (`?GL_SAMPLES_PASSED`) result is non-zero or if the (`?GL_ANY_SAMPLES_PASSED`) result is `?GL_TRUE`, such commands are not discarded. The `Id` parameter to `gl:beginConditionalRender` must be the name of a query object previously returned from a call to `gl:genQueries/1`. `Mode` specifies how the results of the query object are to be interpreted. If `Mode` is `?GL_QUERY_WAIT`, the GL waits for the results of the query to be available and then uses the results to determine if subsequent rendering commands are discarded. If `Mode` is `?GL_QUERY_NO_WAIT`, the GL may choose to unconditionally execute the subsequent rendering commands without waiting for the query to complete.

See [external documentation](#).

`endConditionalRender() -> ok`

See `beginConditionalRender/2`

`vertexAttribIPointer(Index, Size, Type, Stride, Pointer) -> ok`

Types:

```
Index = integer()
Size = integer()
Type = enum()
Stride = integer()
Pointer = offset() | mem()
```

glVertexAttribIPointer

See *external* documentation.

getVertexAttribIiv(Index, Pname) -> {integer(), integer(), integer(), integer()}

Types:

```
Index = integer()  
Pname = enum()
```

See *getVertexAttribdv/2*

getVertexAttribIuiv(Index, Pname) -> {integer(), integer(), integer(), integer()}

Types:

```
Index = integer()  
Pname = enum()
```

glGetVertexAttribI

See *external* documentation.

vertexAttribI1i(Index, X) -> ok

Types:

```
Index = integer()  
X = integer()
```

See *vertexAttribId/2*

vertexAttribI2i(Index, X, Y) -> ok

Types:

```
Index = integer()  
X = integer()  
Y = integer()
```

See *vertexAttribId/2*

vertexAttribI3i(Index, X, Y, Z) -> ok

Types:

```
Index = integer()  
X = integer()  
Y = integer()  
Z = integer()
```

See *vertexAttribId/2*

vertexAttribI4i(Index, X, Y, Z, W) -> ok

Types:

```
Index = integer()  
X = integer()
```

```
Y = integer()
Z = integer()
W = integer()
```

See *vertexAttribId/2*

vertexAttribI1ui(Index, X) -> ok

Types:

```
Index = integer()
X = integer()
```

See *vertexAttribId/2*

vertexAttribI2ui(Index, X, Y) -> ok

Types:

```
Index = integer()
X = integer()
Y = integer()
```

See *vertexAttribId/2*

vertexAttribI3ui(Index, X, Y, Z) -> ok

Types:

```
Index = integer()
X = integer()
Y = integer()
Z = integer()
```

See *vertexAttribId/2*

vertexAttribI4ui(Index, X, Y, Z, W) -> ok

Types:

```
Index = integer()
X = integer()
Y = integer()
Z = integer()
W = integer()
```

See *vertexAttribId/2*

vertexAttribI1iv(Index::integer(), V) -> ok

Types:

```
V = {X::integer()}
```

Equivalent to *vertexAttribI1i(Index, X)*.

vertexAttribI2iv(Index::integer(), V) -> ok

Types:

```
V = {X::integer(), Y::integer()}
```

Equivalent to *vertexAttribI2i(Index, X, Y)*.

vertexAttribI3iv(Index::integer(), V) -> ok

Types:

v = {x::integer(), y::integer(), z::integer()}

Equivalent to *vertexAttribI3i(Index, X, Y, Z)*.

vertexAttribI4iv(Index::integer(), V) -> ok

Types:

v = {x::integer(), y::integer(), z::integer(), w::integer()}

Equivalent to *vertexAttribI4i(Index, X, Y, Z, W)*.

vertexAttribI1uiv(Index::integer(), V) -> ok

Types:

v = {x::integer()}

Equivalent to *vertexAttribI1ui(Index, X)*.

vertexAttribI2uiv(Index::integer(), V) -> ok

Types:

v = {x::integer(), y::integer()}

Equivalent to *vertexAttribI2ui(Index, X, Y)*.

vertexAttribI3uiv(Index::integer(), V) -> ok

Types:

v = {x::integer(), y::integer(), z::integer()}

Equivalent to *vertexAttribI3ui(Index, X, Y, Z)*.

vertexAttribI4uiv(Index::integer(), V) -> ok

Types:

v = {x::integer(), y::integer(), z::integer(), w::integer()}

Equivalent to *vertexAttribI4ui(Index, X, Y, Z, W)*.

vertexAttribI4bv(Index, V) -> ok

Types:

Index = integer()

v = {integer(), integer(), integer(), integer()}

See *vertexAttribId/2*

vertexAttribI4sv(Index, V) -> ok

Types:

Index = integer()

v = {integer(), integer(), integer(), integer()}

See *vertexAttribId/2*

`vertexAttribI4ubv(Index, V) -> ok`

Types:

```
Index = integer()
V = {integer(), integer(), integer(), integer()}
```

See `vertexAttribId/2`

`vertexAttribI4usv(Index, V) -> ok`

Types:

```
Index = integer()
V = {integer(), integer(), integer(), integer()}
```

See `vertexAttribId/2`

`getUniformuiv(Program, Location) -> {integer(), integer(), integer(),
integer(), integer(), integer(), integer(), integer(), integer(),
integer(), integer(), integer(), integer(), integer(), integer(),
integer(), integer(), integer(), integer()}`

Types:

```
Program = integer()
Location = integer()
```

See `getUniformfv/2`

`bindFragDataLocation(Program, Color, Name) -> ok`

Types:

```
Program = integer()
Color = integer()
Name = string()
```

Bind a user-defined varying out variable to a fragment shader color number

`gl:bindFragDataLocation` explicitly specifies the binding of the user-defined varying out variable `Name` to fragment shader color number `ColorNumber` for program `Program`. If `Name` was bound previously, its assigned binding is replaced with `ColorNumber`. `Name` must be a null-terminated string. `ColorNumber` must be less than `?GL_MAX_DRAW_BUFFERS`.

See **external** documentation.

`getFragDataLocation(Program, Name) -> integer()`

Types:

```
Program = integer()
Name = string()
```

Query the bindings of color numbers to user-defined varying out variables

`gl:getFragDataLocation` retrieves the assigned color number binding for the user-defined varying out variable `Name` for program `Program`. `Program` must have previously been linked. `Name` must be a null-terminated string. If `Name` is not the name of an active user-defined varying out fragment shader variable within `Program`, -1 will be returned.

See **external** documentation.

`uniformlui(Location, V0) -> ok`

Types:

```
Location = integer()  
V0 = integer()
```

See *uniformIf/2*

`uniform2ui(Location, V0, V1) -> ok`

Types:

```
Location = integer()  
V0 = integer()  
V1 = integer()
```

See *uniformIf/2*

`uniform3ui(Location, V0, V1, V2) -> ok`

Types:

```
Location = integer()  
V0 = integer()  
V1 = integer()  
V2 = integer()
```

See *uniformIf/2*

`uniform4ui(Location, V0, V1, V2, V3) -> ok`

Types:

```
Location = integer()  
V0 = integer()  
V1 = integer()  
V2 = integer()  
V3 = integer()
```

See *uniformIf/2*

`uniformluiv(Location, Value) -> ok`

Types:

```
Location = integer()  
Value = [integer()]
```

See *uniformIf/2*

`uniform2uiv(Location, Value) -> ok`

Types:

```
Location = integer()  
Value = [{integer(), integer()}]
```

See *uniformIf/2*

`uniform3uiv(Location, Value) -> ok`

Types:

```
Location = integer()
Value = [{integer(), integer(), integer()}]
```

See *uniformIf/2*

`uniform4uiv(Location, Value) -> ok`

Types:

```
Location = integer()
Value = [{integer(), integer(), integer(), integer()}]
```

See *uniformIf/2*

`texParameterIiv(Target, Pname, Params) -> ok`

Types:

```
Target = enum()
Pname = enum()
Params = tuple()
```

See *texParameterf/3*

`texParameterIuiv(Target, Pname, Params) -> ok`

Types:

```
Target = enum()
Pname = enum()
Params = tuple()
```

glTexParameterI

See *external* documentation.

`getTexParameterIiv(Target, Pname) -> {integer(), integer(), integer(), integer()}`

Types:

```
Target = enum()
Pname = enum()
```

See *getTexParameterfv/2*

`getTexParameterIuiv(Target, Pname) -> {integer(), integer(), integer(), integer()}`

Types:

```
Target = enum()
Pname = enum()
```

glGetTexParameterI

See *external* documentation.

`clearBufferiv(Buffer, Drawbuffer, Value) -> ok`

Types:

```
Buffer = enum()
Drawbuffer = integer()
Value = tuple()
```

Clear individual buffers of the currently bound draw framebuffer

`gl:clearBuffer*` clears the specified buffer to the specified value(s). If `Buffer` is `?GL_COLOR`, a particular draw buffer `?GL_DRAWBUFFER I` is specified by passing `I` as `Drawbuffer`. In this case, `Value` points to a four-element vector specifying the R, G, B and A color to clear that draw buffer to. If `Buffer` is one of `?GL_FRONT`, `?GL_BACK`, `?GL_LEFT`, `?GL_RIGHT`, or `?GL_FRONT_AND_BACK`, identifying multiple buffers, each selected buffer is cleared to the same value. Clamping and conversion for fixed-point color buffers are performed in the same fashion as `gl:clearColor/4`.

See [external](#) documentation.

`clearBufferuiv(Buffer, Drawbuffer, Value) -> ok`

Types:

```
Buffer = enum()
Drawbuffer = integer()
Value = tuple()
```

See `clearBufferiv/3`

`clearBufferfv(Buffer, Drawbuffer, Value) -> ok`

Types:

```
Buffer = enum()
Drawbuffer = integer()
Value = tuple()
```

See `clearBufferiv/3`

`clearBufferfi(Buffer, Drawbuffer, Depth, Stencil) -> ok`

Types:

```
Buffer = enum()
Drawbuffer = integer()
Depth = float()
Stencil = integer()
```

`glClearBufferfi`

See [external](#) documentation.

`getStringi(Name, Index) -> string()`

Types:

```
Name = enum()
Index = integer()
```

See `getString/1`

`drawArraysInstanced`(Mode, First, Count, Primcount) -> ok

Types:

```
Mode = enum()
First = integer()
Count = integer()
Primcount = integer()
```

`glDrawArraysInstanced`

See *external* documentation.

`drawElementsInstanced`(Mode, Count, Type, Indices, Primcount) -> ok

Types:

```
Mode = enum()
Count = integer()
Type = enum()
Indices = offset() | mem()
Primcount = integer()
```

`glDrawElementsInstanced`

See *external* documentation.

`texBuffer`(Target, Internalformat, Buffer) -> ok

Types:

```
Target = enum()
Internalformat = enum()
Buffer = integer()
```

Attach the storage for a buffer object to the active buffer texture

`gl:texBuffer` attaches the storage for the buffer object named `Buffer` to the active buffer texture, and specifies the internal format for the texel array found in the attached buffer object. If `Buffer` is zero, any buffer object attached to the buffer texture is detached and no new buffer object is attached. If `Buffer` is non-zero, it must be the name of an existing buffer object. `Target` must be `?GL_TEXTURE_BUFFER`. `Internalformat` specifies the storage format, and must be one of the following sized internal formats:

See *external* documentation.

`primitiveRestartIndex`(Index) -> ok

Types:

```
Index = integer()
```

Specify the primitive restart index

`gl:primitiveRestartIndex` specifies a vertex array element that is treated specially when primitive restarting is enabled. This is known as the primitive restart index.

See *external* documentation.

`getInteger64i_v`(Target, Index) -> [integer()]

Types:

```
Target = enum()
```

Index = **integer()**

See *getBooleanv/I*

getBufferParameteri64v(Target, Pname) -> [integer()]

Types:

Target = **enum()**

Pname = **enum()**

glGetBufferParameteri64v

See *external* documentation.

framebufferTexture(Target, Attachment, Texture, Level) -> ok

Types:

Target = **enum()**

Attachment = **enum()**

Texture = **integer()**

Level = **integer()**

Attach a level of a texture object as a logical buffer to the currently bound framebuffer object

gl:framebufferTexture, **gl:framebufferTexture1D**, **gl:framebufferTexture2D**, and **gl:framebufferTexture** attach a selected mipmap level or image of a texture object as one of the logical buffers of the framebuffer object currently bound to **Target**. **Target** must be **?GL_DRAW_FRAMEBUFFER**, **?GL_READ_FRAMEBUFFER**, or **?GL_FRAMEBUFFER**. **?GL_FRAMEBUFFER** is equivalent to **?GL_DRAW_FRAMEBUFFER**.

See **external** documentation.

vertexAttribDivisor(Index, Divisor) -> ok

Types:

Index = **integer()**

Divisor = **integer()**

Modify the rate at which generic vertex attributes advance during instanced rendering

gl:vertexAttribDivisor modifies the rate at which generic vertex attributes advance when rendering multiple instances of primitives in a single draw call. If **Divisor** is zero, the attribute at slot **Index** advances once per vertex. If **Divisor** is non-zero, the attribute advances once per **Divisor** instances of the set(s) of vertices being rendered. An attribute is referred to as instanced if its **?GL_VERTEX_ATTRIB_ARRAY_DIVISOR** value is non-zero.

See **external** documentation.

minSampleShading(Value) -> ok

Types:

Value = **clamp()**

Specifies minimum rate at which sample shaing takes place

gl:minSampleShading specifies the rate at which samples are shaded within a covered pixel. Sample-rate shading is enabled by calling **gl:enable/I** with the parameter **?GL_SAMPLE_SHADING**. If **?GL_MULTISAMPLE** or **?GL_SAMPLE_SHADING** is disabled, sample shading has no effect. Otherwise, an implementation must provide at least as many unique color values for each covered fragment as specified by **Value** times **Samples** where **Samples** is the value of **?GL_SAMPLES** for the current framebuffer. At least 1 sample for each covered fragment is generated.

See *external* documentation.

blendEquationi(Buf, Mode) -> ok

Types:

```
Buf = integer()
Mode = enum()
```

See *blendEquation/1*

blendEquationSeparatei(Buf, ModeRGB, ModeAlpha) -> ok

Types:

```
Buf = integer()
ModeRGB = enum()
ModeAlpha = enum()
```

See *blendEquationSeparate/2*

blendFunci(Buf, Src, Dst) -> ok

Types:

```
Buf = integer()
Src = enum()
Dst = enum()
```

glBlendFunci

See *external* documentation.

blendFuncSeparatei(Buf, SrcRGB, DstRGB, SrcAlpha, DstAlpha) -> ok

Types:

```
Buf = integer()
SrcRGB = enum()
DstRGB = enum()
SrcAlpha = enum()
DstAlpha = enum()
```

See *blendFuncSeparate/4*

loadTransposeMatrixfARB(M) -> ok

Types:

```
M = matrix()
```

glLoadTransposeMatrixARB

See *external* documentation.

loadTransposeMatrixdARB(M) -> ok

Types:

```
M = matrix()
```

glLoadTransposeMatrixARB

See *external* documentation.

multTransposeMatrixfARB(M) -> ok

Types:

M = matrix()

glMultTransposeMatrixARB

See *external* documentation.

multTransposeMatrixdARB(M) -> ok

Types:

M = matrix()

glMultTransposeMatrixARB

See *external* documentation.

weightbvARB(Weights) -> ok

Types:

Weights = [integer()]

glWeightARB

See *external* documentation.

weightsvARB(Weights) -> ok

Types:

Weights = [integer()]

glWeightARB

See *external* documentation.

weightivARB(Weights) -> ok

Types:

Weights = [integer()]

glWeightARB

See *external* documentation.

weightfvARB(Weights) -> ok

Types:

Weights = [float()]

glWeightARB

See *external* documentation.

weightdvARB(Weights) -> ok

Types:

Weights = [float()]

glWeightARB

See *external* documentation.

weightubvARB(Weights) -> ok

Types:

Weights = [integer()]

glWeightARB

See *external* documentation.

weightusvARB(Weights) -> ok

Types:

Weights = [integer()]

glWeightARB

See *external* documentation.

weightuivARB(Weights) -> ok

Types:

Weights = [integer()]

glWeightARB

See *external* documentation.

vertexBlendARB(Count) -> ok

Types:

Count = integer()

glVertexBlenARB

See *external* documentation.

currentPaletteMatrixARB(Index) -> ok

Types:

Index = integer()

glCurrentPaletteMatrixARB

See *external* documentation.

matrixIndexubvARB(Indices) -> ok

Types:

Indices = [integer()]

glMatrixIndexARB

See *external* documentation.

matrixIndexusvARB(Indices) -> ok

Types:

Indices = [integer()]

glMatrixIndexARB

See *external* documentation.

matrixIndexuivARB(Indices) -> ok

Types:

Indices = [integer()]

glMatrixIndexARB

See *external* documentation.

programStringARB(Target, Format, String) -> ok

Types:

Target = enum()

Format = enum()

String = string()

glProgramStringARB

See *external* documentation.

bindProgramARB(Target, Program) -> ok

Types:

Target = enum()

Program = integer()

glBindProgramARB

See *external* documentation.

deleteProgramsARB(Programs) -> ok

Types:

Programs = [integer()]

glDeleteProgramsARB

See *external* documentation.

genProgramsARB(N) -> [integer()]

Types:

N = integer()

glGenProgramsARB

See *external* documentation.

programEnvParameter4dARB(Target, Index, X, Y, Z, W) -> ok

Types:

Target = enum()

Index = integer()

X = float()

Y = float()

Z = float()

```
W = float()
glProgramEnvParameterARB
See external documentation.
```

programEnvParameter4dvARB(Target, Index, Params) -> ok
Types:

```
Target = enum()
Index = integer()
Params = {float(), float(), float(), float()}

glProgramEnvParameterARB
See external documentation.
```

programEnvParameter4fARB(Target, Index, X, Y, Z, W) -> ok
Types:

```
Target = enum()
Index = integer()
X = float()
Y = float()
Z = float()
W = float()

glProgramEnvParameterARB
See external documentation.
```

programEnvParameter4fvARB(Target, Index, Params) -> ok
Types:

```
Target = enum()
Index = integer()
Params = {float(), float(), float(), float()}

glProgramEnvParameterARB
See external documentation.
```

programLocalParameter4dARB(Target, Index, X, Y, Z, W) -> ok
Types:

```
Target = enum()
Index = integer()
X = float()
Y = float()
Z = float()
W = float()

glProgramLocalParameterARB
See external documentation.
```

programLocalParameter4dvARB(Target, Index, Params) -> ok

Types:

```
Target = enum()
Index = integer()
Params = {float(), float(), float(), float()}
```

glProgramLocalParameterARB

See *external* documentation.

programLocalParameter4fvARB(Target, Index, X, Y, Z, W) -> ok

Types:

```
Target = enum()
Index = integer()
X = float()
Y = float()
Z = float()
W = float()
```

glProgramLocalParameterARB

See *external* documentation.

programLocalParameter4fvARB(Target, Index, Params) -> ok

Types:

```
Target = enum()
Index = integer()
Params = {float(), float(), float(), float()}
```

glProgramLocalParameterARB

See *external* documentation.

getProgramEnvParameterdvARB(Target, Index) -> {float(), float(), float(), float()}

Types:

```
Target = enum()
Index = integer()
```

glGetProgramEnvParameterARB

See *external* documentation.

getProgramEnvParameterfvARB(Target, Index) -> {float(), float(), float(), float()}

Types:

```
Target = enum()
Index = integer()
```

glGetProgramEnvParameterARB

See *external* documentation.

getProgramLocalParameterdvARB(Target, Index) -> {float(), float(), float(), float()}

Types:

```
Target = enum()
Index = integer()
```

glGetProgramLocalParameterARB

See *external* documentation.

getProgramLocalParameterfvARB(Target, Index) -> {float(), float(), float(), float()}

Types:

```
Target = enum()
Index = integer()
```

glGetProgramLocalParameterARB

See *external* documentation.

getProgramStringARB(Target, Pname, String) -> ok

Types:

```
Target = enum()
Pname = enum()
String = mem()
```

glGetProgramStringARB

See *external* documentation.

getBufferParameterivARB(Target, Pname) -> [integer()]

Types:

```
Target = enum()
Pname = enum()
```

glGetBufferParameterARB

See *external* documentation.

deleteObjectARB(Obj) -> ok

Types:

```
Obj = integer()
```

glDeleteObjectARB

See *external* documentation.

getHandleARB(Pname) -> integer()

Types:

```
Pname = enum()
```

glGetHandleARB

See *external* documentation.

detachObjectARB(ContainerObj, AttachedObj) -> ok

Types:

ContainerObj = integer()

AttachedObj = integer()

glDetachObjectARB

See *external* documentation.

createShaderObjectARB(ShaderType) -> integer()

Types:

ShaderType = enum()

glCreateShaderObjectARB

See *external* documentation.

shaderSourceARB(ShaderObj, String) -> ok

Types:

ShaderObj = integer()

String = iolist()

glShaderSourceARB

See *external* documentation.

compileShaderARB(ShaderObj) -> ok

Types:

ShaderObj = integer()

glCompileShaderARB

See *external* documentation.

createProgramObjectARB() -> integer()

glCreateProgramObjectARB

See *external* documentation.

attachObjectARB(ContainerObj, Obj) -> ok

Types:

ContainerObj = integer()

Obj = integer()

glAttachObjectARB

See *external* documentation.

linkProgramARB(ProgramObj) -> ok

Types:

ProgramObj = integer()

glLinkProgramARB

See *external* documentation.

`useProgramObjectARB(ProgramObj) -> ok`

Types:

`ProgramObj = integer()`

`glUseProgramObjectARB`

See *external* documentation.

`validateProgramARB(ProgramObj) -> ok`

Types:

`ProgramObj = integer()`

`glValidateProgramARB`

See *external* documentation.

`getObjectParameterfvARB(Obj, Pname) -> float()`

Types:

`Obj = integer()`

`Pname = enum()`

`glGetObjectParameterARB`

See *external* documentation.

`getObjectParameterivARB(Obj, Pname) -> integer()`

Types:

`Obj = integer()`

`Pname = enum()`

`glGetObjectParameterARB`

See *external* documentation.

`getInfoLogARB(Obj, MaxLength) -> string()`

Types:

`Obj = integer()`

`MaxLength = integer()`

`glGetInfoLogARB`

See *external* documentation.

`getAttachedObjectsARB(ContainerObj, MaxCount) -> [integer()]`

Types:

`ContainerObj = integer()`

`MaxCount = integer()`

`glGetAttachedObjectsARB`

See *external* documentation.

getUniformLocationARB(ProgramObj, Name) -> integer()

Types:

```
ProgramObj = integer()  
Name = string()
```

glGetUniformLocationARB

See *external* documentation.

getActiveUniformARB(ProgramObj, Index, MaxLength) -> {Size::integer(),
Type::enum(), Name::string()}

Types:

```
ProgramObj = integer()  
Index = integer()  
MaxLength = integer()
```

glGetActiveUniformARB

See *external* documentation.

getUniformfvARB(ProgramObj, Location) -> matrix()

Types:

```
ProgramObj = integer()  
Location = integer()
```

glGetUniformARB

See *external* documentation.

getUniformivARB(ProgramObj, Location) -> {integer(), integer(), integer(),
integer(), integer(), integer(), integer(), integer(), integer(),
integer(), integer(), integer(), integer(), integer(), integer() }

Types:

```
ProgramObj = integer()  
Location = integer()
```

glGetUniformARB

See *external* documentation.

getShaderSourceARB(Obj, MaxLength) -> string()

Types:

```
Obj = integer()  
MaxLength = integer()
```

glGetShaderSourceARB

See *external* documentation.

bindAttribLocationARB(ProgramObj, Index, Name) -> ok

Types:

```
ProgramObj = integer()  
Index = integer()
```

Name = string()

glBindAttribLocationARB

See *external* documentation.

getActiveAttribARB(ProgramObj, Index, MaxLength) -> {Size::integer(), Type::enum(), Name::string()}

Types:

ProgramObj = integer()

Index = integer()

MaxLength = integer()

glGetActiveAttribARB

See *external* documentation.

getAttribLocationARB(ProgramObj, Name) -> integer()

Types:

ProgramObj = integer()

Name = string()

glGetAttribLocationARB

See *external* documentation.

isRenderbuffer(Renderbuffer) -> 0 | 1

Types:

Renderbuffer = integer()

Determine if a name corresponds to a renderbuffer object

gl:isRenderbuffer returns ?GL_TRUE if Renderbuffer is currently the name of a renderbuffer object. If Renderbuffer is zero, or if Renderbuffer is not the name of a renderbuffer object, or if an error occurs, gl:isRenderbuffer returns ?GL_FALSE. If Renderbuffer is a name returned by gl:genRenderbuffers/1 , by that has not yet been bound through a call to gl:bindRenderbuffer/2 or gl:framebufferRenderbuffer/4 , then the name is not a renderbuffer object and gl:isRenderbuffer returns ?GL_FALSE .

See *external* documentation.

bindRenderbuffer(Target, Renderbuffer) -> ok

Types:

Target = enum()

Renderbuffer = integer()

Bind a renderbuffer to a renderbuffer target

gl:bindRenderbuffer binds the renderbuffer object with name Renderbuffer to the renderbuffer target specified by Target . Target must be ?GL_RENDERBUFFER . Renderbuffer is the name of a renderbuffer object previously returned from a call to gl:genRenderbuffers/1 , or zero to break the existing binding of a renderbuffer object to Target .

See *external* documentation.

deleteRenderbuffers(Renderbuffers) -> ok

Types:

Renderbuffers = [integer()]

Delete renderbuffer objects

gl:deleteRenderbuffers deletes the N renderbuffer objects whose names are stored in the array addressed by Renderbuffers . The name zero is reserved by the GL and is silently ignored, should it occur in Renderbuffers , as are other unused names. Once a renderbuffer object is deleted, its name is again unused and it has no contents. If a renderbuffer that is currently bound to the target ?GL_RENDERBUFFER is deleted, it is as though gl:bindRenderbuffer/2 had been executed with a Target of ?GL_RENDERBUFFER and a Name of zero.

See **external** documentation.

genRenderbuffers(N) -> [integer()]

Types:

N = integer()

Generate renderbuffer object names

gl:genRenderbuffers returns N renderbuffer object names in Renderbuffers . There is no guarantee that the names form a contiguous set of integers; however, it is guaranteed that none of the returned names was in use immediately before the call to gl:genRenderbuffers .

See **external** documentation.

renderbufferStorage(Target, Internalformat, Width, Height) -> ok

Types:

Target = enum()
Internalformat = enum()
Width = integer()
Height = integer()

Establish data storage, format and dimensions of a renderbuffer object's image

gl:renderbufferStorage is equivalent to calling *gl:renderbufferStorageMultisample/5* with the Samples set to zero.

See **external** documentation.

getRenderbufferParameteriv(Target, Pname) -> integer()

Types:

Target = enum()
Pname = enum()

Retrieve information about a bound renderbuffer object

gl:getRenderbufferParameteriv retrieves information about a bound renderbuffer object. Target specifies the target of the query operation and must be ?GL_RENDERBUFFER . Pname specifies the parameter whose value to query and must be one of ?GL_RENDERBUFFER_WIDTH , ?GL_RENDERBUFFER_HEIGHT , ?GL_RENDERBUFFER_INTERNAL_FORMAT , ?GL_RENDERBUFFER_RED_SIZE , ?GL_RENDERBUFFER_GREEN_SIZE , ?GL_RENDERBUFFER_BLUE_SIZE , ?GL_RENDERBUFFER_ALPHA_SIZE , ?GL_RENDERBUFFER_DEPTH_SIZE , ?GL_RENDERBUFFER_STENCIL_SIZE , or ?GL_RENDERBUFFER_SAMPLES .

See **external** documentation.

isFramebuffer(Framebuffer) -> 0 | 1

Types:

Framebuffer = integer()

Determine if a name corresponds to a framebuffer object

gl:isFramebuffer returns ?GL_TRUE if Framebuffer is currently the name of a framebuffer object. If Framebuffer is zero, or if ?framebuffer is not the name of a framebuffer object, or if an error occurs, gl:isFramebuffer returns ?GL_FALSE. If Framebuffer is a name returned by *gl:genFramebuffers/1*, by that has not yet been bound through a call to *gl:bindFramebuffer/2*, then the name is not a framebuffer object and gl:isFramebuffer returns ?GL_FALSE.

See **external** documentation.

bindFramebuffer(Target, Framebuffer) -> ok

Types:

Target = enum()
Framebuffer = integer()

Bind a framebuffer to a framebuffer target

gl:bindFramebuffer binds the framebuffer object with name Framebuffer to the framebuffer target specified by Target . Target must be either ?GL_DRAW_FRAMEBUFFER , ?GL_READ_FRAMEBUFFER or ?GL_FRAMEBUFFER. If a framebuffer object is bound to ?GL_DRAW_FRAMEBUFFER or ?GL_READ_FRAMEBUFFER, it becomes the target for rendering or readback operations, respectively, until it is deleted or another framebuffer is bound to the corresponding bind point. Calling gl:bindFramebuffer with Target set to ?GL_FRAMEBUFFER binds Framebuffer to both the read and draw framebuffer targets. Framebuffer is the name of a framebuffer object previously returned from a call to *gl:genFramebuffers/1* , or zero to break the existing binding of a framebuffer object to Target .

See **external** documentation.

deleteFramebuffers(Framebuffers) -> ok

Types:

Framebuffers = [integer()]

Delete framebuffer objects

gl:deleteFramebuffers deletes the N framebuffer objects whose names are stored in the array addressed by Framebuffers . The name zero is reserved by the GL and is silently ignored, should it occur in Framebuffers , as are other unused names. Once a framebuffer object is deleted, its name is again unused and it has no attachments. If a framebuffer that is currently bound to one or more of the targets ?GL_DRAW_FRAMEBUFFER or ?GL_READ_FRAMEBUFFER is deleted, it is as though *gl:bindFramebuffer/2* had been executed with the corresponding Target and Framebuffer zero.

See **external** documentation.

genFramebuffers(N) -> [integer()]

Types:

N = integer()

Generate framebuffer object names

gl:genFramebuffers returns N framebuffer object names in `Ids`. There is no guarantee that the names form a contiguous set of integers; however, it is guaranteed that none of the returned names was in use immediately before the call to `gl:genFramebuffers`.

See [external](#) documentation.

`checkFramebufferStatus(Target) -> enum()`

Types:

`Target = enum()`

Check the completeness status of a framebuffer

gl:checkFramebufferStatus queries the completeness status of the framebuffer object currently bound to `Target`. `Target` must be `?GL_DRAW_FRAMEBUFFER`, `?GL_READ_FRAMEBUFFER` or `?GL_FRAMEBUFFER`. `?GL_FRAMEBUFFER` is equivalent to `?GL_DRAW_FRAMEBUFFER`.

See [external](#) documentation.

`framebufferTexture1D(Target, Attachment, Textarget, Texture, Level) -> ok`

Types:

`Target = enum()`

`Attachment = enum()`

`Textarget = enum()`

`Texture = integer()`

`Level = integer()`

See [framebufferTexture/4](#)

`framebufferTexture2D(Target, Attachment, Textarget, Texture, Level) -> ok`

Types:

`Target = enum()`

`Attachment = enum()`

`Textarget = enum()`

`Texture = integer()`

`Level = integer()`

See [framebufferTexture/4](#)

`framebufferTexture3D(Target, Attachment, Textarget, Texture, Level, Zoffset)
-> ok`

Types:

`Target = enum()`

`Attachment = enum()`

`Textarget = enum()`

`Texture = integer()`

`Level = integer()`

`Zoffset = integer()`

See [framebufferTexture/4](#)

`framebufferRenderbuffer(Target, Attachment, Renderbuffertarget, Renderbuffer)`
`-> ok`

Types:

```
Target = enum()
Attachment = enum()
Renderbuffertarget = enum()
Renderbuffer = integer()
```

Attach a renderbuffer as a logical buffer to the currently bound framebuffer object

`gl:framebufferRenderbuffer` attaches a renderbuffer as one of the logical buffers of the currently bound framebuffer object. `Renderbuffer` is the name of the renderbuffer object to attach and must be either zero, or the name of an existing renderbuffer object of type `Renderbuffertarget`. If `Renderbuffer` is not zero and if `gl:framebufferRenderbuffer` is successful, then the renderbuffer name `Renderbuffer` will be used as the logical buffer identified by `Attachment` of the framebuffer currently bound to `Target`.

See **external** documentation.

`getFramebufferAttachmentParameteriv(Target, Attachment, Pname) -> integer()`

Types:

```
Target = enum()
Attachment = enum()
Pname = enum()
```

Retrieve information about attachments of a bound framebuffer object

`gl:getFramebufferAttachmentParameter` returns information about attachments of a bound framebuffer object. `Target` specifies the framebuffer binding point and must be `?GL_DRAW_FRAMEBUFFER`, `?GL_READ_FRAMEBUFFER` or `?GL_FRAMEBUFFER`. `?GL_FRAMEBUFFER` is equivalent to `?GL_DRAW_FRAMEBUFFER`.

See **external** documentation.

`generateMipmap(Target) -> ok`

Types:

```
Target = enum()
```

Generate mipmaps for a specified texture target

`gl:generateMipmap` generates mipmaps for the texture attached to `Target` of the active texture unit. For cube map textures, a `?GL_INVALID_OPERATION` error is generated if the texture attached to `Target` is not cube complete.

See **external** documentation.

`blitFramebuffer(SrcX0, SrcY0, SrcX1, SrcY1, DstX0, DstY0, DstX1, DstY1, Mask, Filter) -> ok`

Types:

```
SrcX0 = integer()
SrcY0 = integer()
SrcX1 = integer()
SrcY1 = integer()
DstX0 = integer()
```

```
DstY0 = integer()
DstX1 = integer()
DstY1 = integer()
Mask = integer()
Filter = enum()
```

Copy a block of pixels from the read framebuffer to the draw framebuffer

gl:blitFramebuffer transfers a rectangle of pixel values from one region of the read framebuffer to another region in the draw framebuffer. Mask is the bitwise OR of a number of values indicating which buffers are to be copied. The values are ?GL_COLOR_BUFFER_BIT , ?GL_DEPTH_BUFFER_BIT, and ?GL_STENCIL_BUFFER_BIT. The pixels corresponding to these buffers are copied from the source rectangle bounded by the locations (SrcX0 ; SrcY0) and (SrcX1 ; SrcY1) to the destination rectangle bounded by the locations (DstX0 ; DstY0) and (DstX1 ; DstY1). The lower bounds of the rectangle are inclusive, while the upper bounds are exclusive.

See [external](#) documentation.

```
renderbufferStorageMultisample(Target, Samples, Internalformat, Width,
Height) -> ok
```

Types:

```
Target = enum()
Samples = integer()
Internalformat = enum()
Width = integer()
Height = integer()
```

Establish data storage, format, dimensions and sample count of a renderbuffer object's image

gl:renderbufferStorageMultisample establishes the data storage, format, dimensions and number of samples of a renderbuffer object's image.

See [external](#) documentation.

```
framebufferTextureLayer(Target, Attachment, Texture, Level, Layer) -> ok
```

Types:

```
Target = enum()
Attachment = enum()
Texture = integer()
Level = integer()
Layer = integer()
```

See *framebufferTexture/4*

```
framebufferTextureFaceARB(Target, Attachment, Texture, Level, Face) -> ok
```

Types:

```
Target = enum()
Attachment = enum()
Texture = integer()
Level = integer()
Face = enum()
```

See *framebufferTexture/4*

flushMappedBufferRange(Target, Offset, Length) -> ok

Types:

```
Target = enum()
Offset = integer()
Length = integer()
```

Indicate modifications to a range of a mapped buffer

gl:flushMappedBufferRange indicates that modifications have been made to a range of a mapped buffer. The buffer must previously have been mapped with the ?GL_MAP_FLUSH_EXPLICIT flag. Offset and Length indicate the modified subrange of the mapping, in basic units. The specified subrange to flush is relative to the start of the currently mapped range of the buffer. gl:flushMappedBufferRange may be called multiple times to indicate distinct subranges of the mapping which require flushing.

See **external** documentation.

bindVertexArray(Array) -> ok

Types:

```
Array = integer()
```

Bind a vertex array object

gl:bindVertexArray binds the vertex array object with name Array . Array is the name of a vertex array object previously returned from a call to *gl:genVertexArrays/1* , or zero to break the existing vertex array object binding.

See **external** documentation.

deleteVertexArrays(Arrays) -> ok

Types:

```
Arrays = [integer()]
```

Delete vertex array objects

gl:deleteVertexArrays deletes N vertex array objects whose names are stored in the array addressed by Arrays . Once a vertex array object is deleted it has no contents and its name is again unused. If a vertex array object that is currently bound is deleted, the binding for that object reverts to zero and the default vertex array becomes current. Unused names in Arrays are silently ignored, as is the value zero.

See **external** documentation.

genVertexArrays(N) -> [integer()]

Types:

```
N = integer()
```

Generate vertex array object names

gl:genVertexArrays returns N vertex array object names in Arrays . There is no guarantee that the names form a contiguous set of integers; however, it is guaranteed that none of the returned names was in use immediately before the call to gl:genVertexArrays .

See **external** documentation.

isVertexArray(**Array**) -> 0 | 1

Types:

Array = **integer()**

Determine if a name corresponds to a vertex array object

gl:**isVertexArray** returns ?GL_TRUE if **Array** is currently the name of a renderbuffer object. If Renderbuffer is zero, or if **Array** is not the name of a renderbuffer object, or if an error occurs, gl:**isVertexArray** returns ?GL_FALSE . If **Array** is a name returned by *gl:genVertexArrays/1* , by that has not yet been bound through a call to *gl:bindVertexArray/1* , then the name is not a vertex array object and gl:**isVertexArray** returns ?GL_FALSE.

See **external** documentation.

getUniformIndices(**Program**, **UniformNames**) -> [**integer()**]

Types:

Program = **integer()**
UniformNames = **iolist()**

Retrieve the index of a named uniform block

gl:**getUniformIndices** retrieves the indices of a number of uniforms within **Program** .

See **external** documentation.

getActiveUniformsiv(**Program**, **UniformIndices**, **Pname**) -> [**integer()**]

Types:

Program = **integer()**
UniformIndices = [**integer()**]
Pname = **enum()**

glGetActiveUniforms

See *external* documentation.

getActiveUniformName(**Program**, **UniformIndex**, **BufSize**) -> **string()**

Types:

Program = **integer()**
UniformIndex = **integer()**
BufSize = **integer()**

Query the name of an active uniform

gl:**getActiveUniformName** returns the name of the active uniform at **UniformIndex** within **Program** . If **UniformName** is not NULL, up to **BufSize** characters (including a nul-terminator) will be written into the array whose address is specified by **UniformName** . If **Length** is not NULL, the number of characters that were (or would have been) written into **UniformName** (not including the nul-terminator) will be placed in the variable whose address is specified in **Length** . If **Length** is NULL, no length is returned. The length of the longest uniform name in **Program** is given by the value of ?GL_ACTIVE_UNIFORM_MAX_LENGTH, which can be queried with *gl:getProgramiv/2* .

See **external** documentation.

`getUniformBlockIndex(Program, UniformBlockName) -> integer()`

Types:

```
Program = integer()
UniformBlockName = string()
```

Retrieve the index of a named uniform block

`gl:getUniformBlockIndex` retrieves the index of a uniform block within `Program`.

See **external** documentation.

`getActiveUniformBlockiv(Program, UniformBlockIndex, Pname, Params) -> ok`

Types:

```
Program = integer()
UniformBlockIndex = integer()
Pname = enum()
Params = mem()
```

Query information about an active uniform block

`gl:getActiveUniformBlockiv` retrieves information about an active uniform block within `Program`.

See **external** documentation.

`getActiveUniformBlockName(Program, UniformBlockIndex, BufSize) -> string()`

Types:

```
Program = integer()
UniformBlockIndex = integer()
BufSize = integer()
```

Retrieve the name of an active uniform block

`gl:getActiveUniformBlockName` retrieves the name of the active uniform block at `UniformBlockIndex` within `Program`.

See **external** documentation.

`uniformBlockBinding(Program, UniformBlockIndex, UniformBlockBinding) -> ok`

Types:

```
Program = integer()
UniformBlockIndex = integer()
UniformBlockBinding = integer()
```

Assign a binding point to an active uniform block

Binding points for active uniform blocks are assigned using `gl:uniformBlockBinding`. Each of a program's active uniform blocks has a corresponding uniform buffer binding point. `Program` is the name of a program object for which the command `gl:linkProgram/I` has been issued in the past.

See **external** documentation.

`copyBufferSubData(ReadTarget, WriteTarget, ReadOffset, WriteOffset, Size) -> ok`

Types:

```
ReadTarget = enum()
WriteTarget = enum()
ReadOffset = integer()
WriteOffset = integer()
Size = integer()
```

Copy part of the data store of a buffer object to the data store of another buffer object

gl:copyBufferSubData copies part of the data store attached to Readtarget to the data store attached to Writetarget . The number of basic machine units indicated by Size is copied from the source, at offset Readoffset to the destination at Writeoffset , also in basic machine units.

See [external](#) documentation.

drawElementsBaseVertex(Mode, Count, Type, Indices, Basevertex) -> ok

Types:

```
Mode = enum()
Count = integer()
Type = enum()
Indices = offset() | mem()
Basevertex = integer()
```

Render primitives from array data with a per-element offset

gl:drawElementsBaseVertex behaves identically to *gl:drawElements/4* except that the *i*th element transferred by the corresponding draw call will be taken from element Indices [i] + Basevertex of each enabled array. If the resulting value is larger than the maximum value representable by Type , it is as if the calculation were upconverted to 32-bit unsigned integers (with wrapping on overflow conditions). The operation is undefined if the sum would be negative.

See [external](#) documentation.

drawRangeElementsBaseVertex(Mode, Start, End, Count, Type, Indices, Basevertex) -> ok

Types:

```
Mode = enum()
Start = integer()
End = integer()
Count = integer()
Type = enum()
Indices = offset() | mem()
Basevertex = integer()
```

Render primitives from array data with a per-element offset

gl:drawRangeElementsBaseVertex is a restricted form of *gl:drawElementsBaseVertex/5* . Mode , Start , End , Count and Basevertex match the corresponding arguments to *gl:drawElementsBaseVertex/5* , with the additional constraint that all values in the array Indices must lie between Start and End , inclusive, prior to adding Basevertex . Index values lying outside the range [Start , End] are treated in the same way as *gl:drawElementsBaseVertex/5* . The *i* th element transferred by the corresponding draw call will be taken from element Indices [i] + Basevertex of each enabled array. If the resulting value is larger than the maximum value

representable by `Type`, it is as if the calculation were upconverted to 32-bit unsigned integers (with wrapping on overflow conditions). The operation is undefined if the sum would be negative.

See [external documentation](#).

```
drawElementsInstancedBaseVertex(Mode, Count, Type, Indices, Primcount,
Basevertex) -> ok
```

Types:

```
Mode = enum()
Count = integer()
Type = enum()
Indices = offset() | mem()
Primcount = integer()
Basevertex = integer()
```

Render multiple instances of a set of primitives from array data with a per-element offset

`gl:drawElementsInstancedBaseVertex` behaves identically to `gl:drawElementsInstanced/5` except that the i th element transferred by the corresponding draw call will be taken from element `Indices` $[i] + \text{Basevertex}$ of each enabled array. If the resulting value is larger than the maximum value representable by `Type`, it is as if the calculation were upconverted to 32-bit unsigned integers (with wrapping on overflow conditions). The operation is undefined if the sum would be negative.

See [external documentation](#).

```
provokingVertex(Mode) -> ok
```

Types:

```
Mode = enum()
```

Specify the vertex to be used as the source of data for flat shaded varyings

Flatshading a vertex shader varying output means to assign all vertices of the primitive the same value for that output. The vertex from which these values is derived is known as the `provoking vertex` and `gl:provokingVertex` specifies which vertex is to be used as the source of data for flat shaded varyings.

See [external documentation](#).

```
fenceSync(Condition, Flags) -> integer()
```

Types:

```
Condition = enum()
Flags = integer()
```

Create a new sync object and insert it into the GL command stream

`gl:fenceSync` creates a new fence sync object, inserts a fence command into the GL command stream and associates it with that sync object, and returns a non-zero name corresponding to the sync object.

See [external documentation](#).

```
isSync(Sync) -> 0 | 1
```

Types:

```
Sync = integer()
```

Determine if a name corresponds to a sync object

gl:isSync returns ?GL_TRUE if Sync is currently the name of a sync object. If Sync is not the name of a sync object, or if an error occurs, gl:isSync returns ?GL_FALSE. Note that zero is not the name of a sync object.

See **external** documentation.

deleteSync(Sync) -> ok

Types:

Sync = integer()

Delete a sync object

gl:deleteSync deletes the sync object specified by Sync . If the fence command corresponding to the specified sync object has completed, or if no gl:waitSync/3 or gl:clientWaitSync/3 commands are blocking on Sync , the object is deleted immediately. Otherwise, Sync is flagged for deletion and will be deleted when it is no longer associated with any fence command and is no longer blocking any gl:waitSync/3 or gl:clientWaitSync/3 command. In either case, after gl:deleteSync returns, the name Sync is invalid and can no longer be used to refer to the sync object.

See **external** documentation.

clientWaitSync(Sync, Flags, Timeout) -> enum()

Types:

Sync = integer()

Flags = integer()

Timeout = integer()

Block and wait for a sync object to become signaled

gl:clientWaitSync causes the client to block and wait for the sync object specified by Sync to become signaled. If Sync is signaled when gl:clientWaitSync is called, gl:clientWaitSync returns immediately, otherwise it will block and wait for up to Timeout nanoseconds for Sync to become signaled.

See **external** documentation.

waitSync(Sync, Flags, Timeout) -> ok

Types:

Sync = integer()

Flags = integer()

Timeout = integer()

Instruct the GL server to block until the specified sync object becomes signaled

gl:waitSync causes the GL server to block and wait until Sync becomes signaled. Sync is the name of an existing sync object upon which to wait. Flags and Timeout are currently not used and must be set to zero and the special value ?GL_TIMEOUT_IGNORED , respectively

Flags and Timeout are placeholders for anticipated future extensions of sync object capabilities. They must have these reserved values in order that existing code calling gl:waitSync operate properly in the presence of such extensions.

See **external** documentation.

getInteger64v(Pname) -> [integer()]

Types:

Pname = enum()

See *getBooleanv/I*

getSynciv(Sync, Pname, BufSize) -> [integer()]

Types:

```
Sync = integer()
Pname = enum()
BufSize = integer()
```

Query the properties of a sync object

gl:**getSynciv** retrieves properties of a sync object. Sync specifies the name of the sync object whose properties to retrieve.

See **external** documentation.

texImage2DMultisample(Target, Samples, Internalformat, Width, Height, Fixedsamplelocations) -> ok

Types:

```
Target = enum()
Samples = integer()
Internalformat = integer()
Width = integer()
Height = integer()
Fixedsamplelocations = 0 | 1
```

Establish the data storage, format, dimensions, and number of samples of a multisample texture's image

gl:**texImage2DMultisample** establishes the data storage, format, dimensions and number of samples of a multisample texture's image.

See **external** documentation.

texImage3DMultisample(Target, Samples, Internalformat, Width, Height, Depth, Fixedsamplelocations) -> ok

Types:

```
Target = enum()
Samples = integer()
Internalformat = integer()
Width = integer()
Height = integer()
Depth = integer()
Fixedsamplelocations = 0 | 1
```

Establish the data storage, format, dimensions, and number of samples of a multisample texture's image

gl:**texImage3DMultisample** establishes the data storage, format, dimensions and number of samples of a multisample texture's image.

See **external** documentation.

getMultisamplefv(Pname, Index) -> {float(), float()}

Types:

```
Pname = enum()
Index = integer()
```

Retrieve the location of a sample

gl:getMultisamplefv queries the location of a given sample. Pname specifies the sample parameter to retrieve and must be ?GL_SAMPLE_POSITION. Index corresponds to the sample for which the location should be returned. The sample location is returned as two floating-point values in Val[0] and Val[1], each between 0 and 1, corresponding to the X and Y locations respectively in the GL pixel space of that sample. (0.5, 0.5) this corresponds to the pixel center. Index must be between zero and the value of ?GL_SAMPLES - 1.

See **external** documentation.

```
sampleMaski(Index, Mask) -> ok
```

Types:

```
Index = integer()
Mask = integer()
```

Set the value of a sub-word of the sample mask

gl:sampleMaski sets one 32-bit sub-word of the multi-word sample mask, ?GL_SAMPLE_MASK_VALUE.

See **external** documentation.

```
namedStringARB(Type, Name, String) -> ok
```

Types:

```
Type = enum()
Name = string()
String = string()
```

glNamedStringARB

See *external* documentation.

```
deleteNamedStringARB(Name) -> ok
```

Types:

```
Name = string()
```

glDeleteNamedStringARB

See *external* documentation.

```
compileShaderIncludeARB(Shader, Path) -> ok
```

Types:

```
Shader = integer()
Path = iolist()
```

glCompileShaderIncludeARB

See *external* documentation.

```
isNamedStringARB(Name) -> 0 | 1
```

Types:

```
Name = string()
```

glIsNamedStringARB

See *external* documentation.

getNamedStringARB(Name, BufSize) -> string()

Types:

```
Name = string()
BufSize = integer()
```

glGetNamedStringARB

See *external* documentation.

getNamedStringivARB(Name, Pname) -> integer()

Types:

```
Name = string()
Pname = enum()
```

glGetNamedStringARB

See *external* documentation.

bindFragDataLocationIndexed(Program, ColorNumber, Index, Name) -> ok

Types:

```
Program = integer()
ColorNumber = integer()
Index = integer()
Name = string()
```

glBindFragDataLocationIndexe

See *external* documentation.

getFragDataIndex(Program, Name) -> integer()

Types:

```
Program = integer()
Name = string()
```

Query the bindings of color indices to user-defined varying out variables

gl:getFragDataIndex returns the index of the fragment color to which the variable Name was bound when the program object Program was last linked. If Name is not a varying out variable of Program , or if an error occurs, -1 will be returned.

See *external* documentation.

genSamplers(Count) -> [integer()]

Types:

```
Count = integer()
```

Generate sampler object names

gl:genSamplers returns N sampler object names in Samplers . There is no guarantee that the names form a contiguous set of integers; however, it is guaranteed that none of the returned names was in use immediately before the call to gl:genSamplers .

See **external** documentation.

deleteSamplers(Samplers) -> ok

Types:

Samplers = [integer()]

Delete named sampler objects

gl:deleteSamplers deletes N sampler objects named by the elements of the array Ids . After a sampler object is deleted, its name is again unused. If a sampler object that is currently bound to a sampler unit is deleted, it is as though *gl:bindSampler/2* is called with unit set to the unit the sampler is bound to and sampler zero. Unused names in samplers are silently ignored, as is the reserved name zero.

See **external** documentation.

isSampler(Sampler) -> 0 | 1

Types:

Sampler = integer()

Determine if a name corresponds to a sampler object

gl:isSampler returns ?GL_TRUE if Id is currently the name of a sampler object. If Id is zero, or is a non-zero value that is not currently the name of a sampler object, or if an error occurs, gl:isSampler returns ?GL_FALSE.

See **external** documentation.

bindSampler(Unit, Sampler) -> ok

Types:

Unit = integer()

Sampler = integer()

Bind a named sampler to a texturing target

gl:bindSampler binds Sampler to the texture unit at index Unit . Sampler must be zero or the name of a sampler object previously returned from a call to *gl:genSamplers/1* . Unit must be less than the value of ?GL_MAX_COMBINED_TEXTURE_IMAGE_UNITS.

See **external** documentation.

samplerParameteri(Sampler, Pname, Param) -> ok

Types:

Sampler = integer()

Pname = enum()

Param = integer()

Set sampler parameters

gl:samplerParameter assigns the value or values in Params to the sampler parameter specified as Pname . Sampler specifies the sampler object to be modified, and must be the name of a sampler object previously returned from a call to *gl:genSamplers/1* . The following symbols are accepted in Pname :

See **external** documentation.

`samplerParameteriv(Sampler, Pname, Param) -> ok`

Types:

```
Sampler = integer()
Pname = enum()
Param = [integer()]
```

See *samplerParameteri/3*

`samplerParameterf(Sampler, Pname, Param) -> ok`

Types:

```
Sampler = integer()
Pname = enum()
Param = float()
```

See *samplerParameteri/3*

`samplerParameterfv(Sampler, Pname, Param) -> ok`

Types:

```
Sampler = integer()
Pname = enum()
Param = [float()]
```

See *samplerParameteri/3*

`samplerParameterIiv(Sampler, Pname, Param) -> ok`

Types:

```
Sampler = integer()
Pname = enum()
Param = [integer()]
```

See *samplerParameteri/3*

`samplerParameterIuiv(Sampler, Pname, Param) -> ok`

Types:

```
Sampler = integer()
Pname = enum()
Param = [integer()]
```

glSamplerParameterI

See *external* documentation.

`getSamplerParameteriv(Sampler, Pname) -> [integer()]`

Types:

```
Sampler = integer()
Pname = enum()
```

Return sampler parameter values

`gl:getSamplerParameter` returns in `Params` the value or values of the sampler parameter specified as `Pname`. `Sampler` defines the target sampler, and must be the name of an existing sampler object, returned from a previous call to `gl:genSamplers/1`. `Pname` accepts the same symbols as `gl:samplerParameteri/3`, with the same interpretations:

See **external** documentation.

`getSamplerParameterIiv(Sampler, Pname) -> [integer()]`

Types:

```
Sampler = integer()
Pname = enum()
```

See `getSamplerParameteriv/2`

`getSamplerParameterfv(Sampler, Pname) -> [float()]`

Types:

```
Sampler = integer()
Pname = enum()
```

See `getSamplerParameteriv/2`

`getSamplerParameterIuiv(Sampler, Pname) -> [integer()]`

Types:

```
Sampler = integer()
Pname = enum()
```

`glGetSamplerParameterI`

See *external* documentation.

`queryCounter(Id, Target) -> ok`

Types:

```
Id = integer()
Target = enum()
```

Record the GL time into a query object after all previous commands have reached the GL server but have not yet necessarily executed.

`gl:queryCounter` causes the GL to record the current time into the query object named `Id`. `Target` must be `?GL_TIMESTAMP`. The time is recorded after all previous commands on the GL client and server state and the framebuffer have been fully realized. When the time is recorded, the query result for that object is marked available. `gl:queryCounter` timer queries can be used within a `gl:beginQuery/2` / `gl:endQuery/2` block where the target is `?GL_TIME_ELAPSED` and it does not affect the result of that query object.

See **external** documentation.

`getQueryObjecti64v(Id, Pname) -> integer()`

Types:

```
Id = integer()
Pname = enum()
```

`glGetQueryObjecti64v`

See *external* documentation.

`getQueryObjectui64v(Id, Pname) -> integer()`

Types:

`Id = integer()`

`Pname = enum()`

`glGetQueryObjectui64v`

See *external* documentation.

`drawArraysIndirect(Mode, Indirect) -> ok`

Types:

`Mode = enum()`

`Indirect = offset() | mem()`

Render primitives from array data, taking parameters from memory

`gl:drawArraysIndirect` specifies multiple geometric primitives with very few subroutine calls.
`gl:drawArraysIndirect` behaves similarly to `gl:drawArraysInstancedBaseInstance/5`, except that the parameters to `gl:drawArraysInstancedBaseInstance/5` are stored in memory at the address given by `Indirect`.

See *external* documentation.

`drawElementsIndirect(Mode, Type, Indirect) -> ok`

Types:

`Mode = enum()`

`Type = enum()`

`Indirect = offset() | mem()`

Render indexed primitives from array data, taking parameters from memory

`gl:drawElementsIndirect` specifies multiple indexed geometric primitives with very few subroutine calls.
`gl:drawElementsIndirect` behaves similarly to `gl:drawElementsInstancedBaseVertexBaseInstance/7`, except that the parameters to `gl:drawElementsInstancedBaseVertexBaseInstance/7` are stored in memory at the address given by `Indirect`.

See *external* documentation.

`uniform1d(Location, X) -> ok`

Types:

`Location = integer()`

`X = float()`

See *uniformIf/2*

`uniform2d(Location, X, Y) -> ok`

Types:

`Location = integer()`

`X = float()`

`Y = float()`

See *uniformIf/2*

`uniform3d(Location, X, Y, Z) -> ok`

Types:

```
Location = integer()  
X = float()  
Y = float()  
Z = float()
```

See *uniformIf/2*

`uniform4d(Location, X, Y, Z, W) -> ok`

Types:

```
Location = integer()  
X = float()  
Y = float()  
Z = float()  
W = float()
```

See *uniformIf/2*

`uniform1dv(Location, Value) -> ok`

Types:

```
Location = integer()  
Value = [float()]
```

See *uniformIf/2*

`uniform2dv(Location, Value) -> ok`

Types:

```
Location = integer()  
Value = [{float(), float()}]
```

See *uniformIf/2*

`uniform3dv(Location, Value) -> ok`

Types:

```
Location = integer()  
Value = [{float(), float(), float()}]
```

See *uniformIf/2*

`uniform4dv(Location, Value) -> ok`

Types:

```
Location = integer()  
Value = [{float(), float(), float(), float()}]
```

See *uniformIf/2*

`uniformMatrix2dv(Location, Transpose, Value) -> ok`

Types:

```

Location = integer()
Transpose = 0 | 1
Value = [{float(), float(), float(), float()}]

```

See *uniformIf/2*

uniformMatrix3dv(Location, Transpose, Value) -> ok

Types:

```

Location = integer()
Transpose = 0 | 1
Value = [{float(), float(), float(), float(), float(), float(),
           float(), float()}]

```

See *uniformIf/2*

uniformMatrix4dv(Location, Transpose, Value) -> ok

Types:

```

Location = integer()
Transpose = 0 | 1
Value = [{float(), float(), float(), float(), float(), float(),
           float(), float(), float(), float(), float(), float(),
           float(), float()}]

```

See *uniformIf/2*

uniformMatrix2x3dv(Location, Transpose, Value) -> ok

Types:

```

Location = integer()
Transpose = 0 | 1
Value = [{float(), float(), float(), float(), float(), float()}]

```

See *uniformIf/2*

uniformMatrix2x4dv(Location, Transpose, Value) -> ok

Types:

```

Location = integer()
Transpose = 0 | 1
Value = [{float(), float(), float(), float(), float(), float(),
           float(), float()}]

```

See *uniformIf/2*

uniformMatrix3x2dv(Location, Transpose, Value) -> ok

Types:

```

Location = integer()
Transpose = 0 | 1
Value = [{float(), float(), float(), float(), float(), float()}]

```

See *uniformIf/2*

`uniformMatrix3x4dv(Location, Transpose, Value) -> ok`

Types:

```
Location = integer()
Transpose = 0 | 1
Value = [{float(), float(), float(), float(), float(), float(),
          float(), float(), float(), float()}]
```

See *uniformIf/2*

`uniformMatrix4x2dv(Location, Transpose, Value) -> ok`

Types:

```
Location = integer()
Transpose = 0 | 1
Value = [{float(), float(), float(), float(), float(), float(),
          float(), float()}]
```

See *uniformIf/2*

`uniformMatrix4x3dv(Location, Transpose, Value) -> ok`

Types:

```
Location = integer()
Transpose = 0 | 1
Value = [{float(), float(), float(), float(), float(), float(),
          float(), float(), float(), float()}]
```

See *uniformIf/2*

`getUniformmdv(Program, Location) -> matrix()`

Types:

```
Program = integer()
Location = integer()
```

See *getUniformfv/2*

`getSubroutineUniformLocation(Program, Shadertype, Name) -> integer()`

Types:

```
Program = integer()
Shadertype = enum()
Name = string()
```

Retrieve the location of a subroutine uniform of a given shader stage within a program

`gl:getSubroutineUniformLocation` returns the location of the subroutine uniform variable `Name` in the shader stage of type `Shadertype` attached to `Program`, with behavior otherwise identical to `gl:getUniformLocation/2`.

See **external** documentation.

`getSubroutineIndex(Program, Shadertype, Name) -> integer()`

Types:

```
Program = integer()
Shadertype = enum()
Name = string()
```

Retrieve the index of a subroutine uniform of a given shader stage within a program

gl:getSubroutineIndex returns the index of a subroutine uniform within a shader stage attached to a program object. Program contains the name of the program to which the shader is attached. Shadertype specifies the stage from which to query shader subroutine index. Name contains the null-terminated name of the subroutine uniform whose name to query.

See [external](#) documentation.

```
getActiveSubroutineUniformName(Program, Shadertype, Index, Buftype) -> string()
```

Types:

```
Program = integer()
Shadertype = enum()
Index = integer()
Buftype = integer()
```

Query the name of an active shader subroutine uniform

gl:getActiveSubroutineUniformName retrieves the name of an active shader subroutine uniform. Program contains the name of the program containing the uniform. Shadertype specifies the stage for which which the uniform location, given by Index , is valid. Index must be between zero and the value of ?GL_ACTIVE_SUBROUTINE_UNIFORMS minus one for the shader stage.

See [external](#) documentation.

```
getActiveSubroutineName(Program, Shadertype, Index, Buftype) -> string()
```

Types:

```
Program = integer()
Shadertype = enum()
Index = integer()
Buftype = integer()
```

Query the name of an active shader subroutine

gl:getActiveSubroutineName queries the name of an active shader subroutine uniform from the program object given in Program . Index specifies the index of the shader subroutine uniform within the shader stage given by Stage , and must between zero and the value of ?GL_ACTIVE_SUBROUTINES minus one for the shader stage.

See [external](#) documentation.

```
uniformSubroutinesuv(Shadertype, Indices) -> ok
```

Types:

```
Shadertype = enum()
Indices = [integer()]
```

Load active subroutine uniforms

gl:uniformSubroutines loads all active subroutine uniforms for shader stage Shadertype of the current program with subroutine indices from Indices , storing Indices[i] into the uniform at location I . Count

must be equal to the value of `?GL_ACTIVE_SUBROUTINE_UNIFORM_LOCATIONS` for the program currently in use at shader stage `Shadertype`. Furthermore, all values in `Indices` must be less than the value of `?GL_ACTIVE_SUBROUTINES` for the shader stage.

See [external](#) documentation.

```
getUniformSubroutineuiv(Shadertype, Location) -> {integer(), integer(),
integer(), integer(), integer(), integer(), integer(), integer(),
integer(), integer(), integer(), integer(), integer(), integer()}
```

Types:

```
Shadertype = enum()
Location = integer()
```

Retrieve the value of a subroutine uniform of a given shader stage of the current program

`gl:getUniformSubroutine` retrieves the value of the subroutine uniform at location `Location` for shader stage `Shadertype` of the current program. `Location` must be less than the value of `?GL_ACTIVE_SUBROUTINE_UNIFORM_LOCATIONS` for the shader currently in use at shader stage `Shadertype`. The value of the subroutine uniform is returned in `Values`.

See [external](#) documentation.

```
getProgramStageiv(Program, Shadertype, Pname) -> integer()
```

Types:

```
Program = integer()
Shadertype = enum()
Pname = enum()
```

Retrieve properties of a program object corresponding to a specified shader stage

`gl:getProgramStage` queries a parameter of a shader stage attached to a program object. `Program` contains the name of the program to which the shader is attached. `Shadertype` specifies the stage from which to query the parameter. `Pname` specifies which parameter should be queried. The value or values of the parameter to be queried is returned in the variable whose address is given in `Values`.

See [external](#) documentation.

```
patchParameteri(Pname, Value) -> ok
```

Types:

```
Pname = enum()
Value = integer()
```

Specifies the parameters for patch primitives

`gl:patchParameter` specifies the parameters that will be used for patch primitives. `Pname` specifies the parameter to modify and must be either `?GL_PATCH_VERTICES`, `?GL_PATCH_DEFAULT_OUTER_LEVEL` or `?GL_PATCH_DEFAULT_INNER_LEVEL`. For `gl:patchParameteri`, `Value` specifies the new value for the parameter specified by `Pname`. For `gl:patchParameterfv`, `Values` specifies the address of an array containing the new values for the parameter specified by `Pname`.

See [external](#) documentation.

```
patchParameterfv(Pname, Values) -> ok
```

Types:

```
Pname = enum()
Values = [float()]
```

See *patchParameteri/2*

bindTransformFeedback(Target, Id) -> ok

Types:

```
Target = enum()
Id = integer()
```

Bind a transform feedback object

gl:bindTransformFeedback binds the transform feedback object with name `Id` to the current GL state. `Id` must be a name previously returned from a call to `gl:genTransformFeedbacks/1`. If `Id` has not previously been bound, a new transform feedback object with name `Id` and initialized with the default transform state vector is created.

See **external** documentation.

deleteTransformFeedbacks(Ids) -> ok

Types:

```
Ids = [integer()]
```

Delete transform feedback objects

gl:deleteTransformFeedbacks deletes the N transform feedback objects whose names are stored in the array `Ids`. Unused names in `Ids` are ignored, as is the name zero. After a transform feedback object is deleted, its name is again unused and it has no contents. If an active transform feedback object is deleted, its name immediately becomes unused, but the underlying object is not deleted until it is no longer active.

See **external** documentation.

genTransformFeedbacks(N) -> [integer()]

Types:

```
N = integer()
```

Reserve transform feedback object names

gl:genTransformFeedbacks returns N previously unused transform feedback object names in `Ids`. These names are marked as used, for the purposes of gl:genTransformFeedbacks only, but they acquire transform feedback state only when they are first bound.

See **external** documentation.

isTransformFeedback(Id) -> 0 | 1

Types:

```
Id = integer()
```

Determine if a name corresponds to a transform feedback object

gl:isTransformFeedback returns ?GL_TRUE if `Id` is currently the name of a transform feedback object. If `Id` is zero, or if ?id is not the name of a transform feedback object, or if an error occurs, gl:isTransformFeedback returns ?GL_FALSE. If `Id` is a name returned by `gl:genTransformFeedbacks/1`, but that has not yet been bound through a call to `gl:bindTransformFeedback/2`, then the name is not a transform feedback object and gl:isTransformFeedback returns ?GL_FALSE.

See **external** documentation.

pauseTransformFeedback() -> ok

Pause transform feedback operations

gl:pauseTransformFeedback pauses transform feedback operations on the currently active transform feedback object. When transform feedback operations are paused, transform feedback is still considered active and changing most transform feedback state related to the object results in an error. However, a new transform feedback object may be bound while transform feedback is paused.

See [external](#) documentation.

resumeTransformFeedback() -> ok

Resume transform feedback operations

gl:resumeTransformFeedback resumes transform feedback operations on the currently active transform feedback object. When transform feedback operations are paused, transform feedback is still considered active and changing most transform feedback state related to the object results in an error. However, a new transform feedback object may be bound while transform feedback is paused.

See [external](#) documentation.

drawTransformFeedback(Mode, Id) -> ok

Types:

```
Mode = enum()
Id = integer()
```

Render primitives using a count derived from a transform feedback object

gl:drawTransformFeedback draws primitives of a type specified by Mode using a count retrieved from the transform feedback specified by Id . Calling gl:drawTransformFeedback is equivalent to calling *gl:drawArrays/3* with Mode as specified, First set to zero, and Count set to the number of vertices captured on vertex stream zero the last time transform feedback was active on the transform feedback object named by Id .

See [external](#) documentation.

drawTransformFeedbackStream(Mode, Id, Stream) -> ok

Types:

```
Mode = enum()
Id = integer()
Stream = integer()
```

Render primitives using a count derived from a specified stream of a transform feedback object

gl:drawTransformFeedbackStream draws primitives of a type specified by Mode using a count retrieved from the transform feedback stream specified by Stream of the transform feedback object specified by Id . Calling gl:drawTransformFeedbackStream is equivalent to calling *gl:drawArrays/3* with Mode as specified, First set to zero, and Count set to the number of vertices captured on vertex stream Stream the last time transform feedback was active on the transform feedback object named by Id .

See [external](#) documentation.

beginQueryIndexed(Target, Index, Id) -> ok

Types:

```
Target = enum()
Index = integer()
```

```
Id = integer()
```

glBeginQueryIndexe

See [external documentation](#).

endQueryIndexed(Target, Index) -> ok

Types:

```
Target = enum()
Index = integer()
```

Delimit the boundaries of a query object on an indexed target

gl:`:beginQueryIndexed` and gl:`:endQueryIndexed/2` delimit the boundaries of a query object. Query must be a name previously returned from a call to gl:`:genQueries/1`. If a query object with name Id does not yet exist it is created with the type determined by Target . Target must be one of ?GL_SAMPLES_PASSED, ?GL_ANY_SAMPLES_PASSED , ?GL_PRIMITIVES_GENERATED, ?GL_TRANSFORM_FEEDBACK_PRIMITIVES_WRITTEN, or ?GL_TIME_ELAPSED . The behavior of the query object depends on its type and is as follows.

See [external documentation](#).

getQueryIndexediv(Target, Index, Pname) -> integer()

Types:

```
Target = enum()
Index = integer()
Pname = enum()
```

Return parameters of an indexed query object target

gl:`:getQueryIndexediv` returns in Params a selected parameter of the indexed query object target specified by Target and Index . Index specifies the index of the query object target and must be between zero and a target-specific maximum.

See [external documentation](#).

releaseShaderCompiler() -> ok

Release resources consumed by the implementation's shader compiler

gl:`:releaseShaderCompiler` provides a hint to the implementation that it may free internal resources associated with its shader compiler. gl:`:compileShader/1` may subsequently be called and the implementation may at that time reallocate resources previously freed by the call to gl:`:releaseShaderCompiler`.

See [external documentation](#).

shaderBinary(Shaders, Binaryformat, Binary) -> ok

Types:

```
Shaders = [integer()]
Binaryformat = enum()
Binary = binary()
```

Load pre-compiled shader binaries

gl::shaderBinary loads pre-compiled shader binary code into the Count shader objects whose handles are given in Shaders . Binary points to Length bytes of binary shader code stored in client memory. BinaryFormat specifies the format of the pre-compiled code.

See **external** documentation.

```
getShaderPrecisionFormat(Shadertype, Precisiontype) -> {Range::integer(),  
integer()}, Precision::integer()}
```

Types:

```
Shadertype = enum()  
Precisiontype = enum()
```

Retrieve the range and precision for numeric formats supported by the shader compiler

gl::getShaderPrecisionFormat retrieves the numeric range and precision for the implementation's representation of quantities in different numeric formats in specified shader type. ShaderType specifies the type of shader for which the numeric precision and range is to be retrieved and must be one of ?GL_VERTEX_SHADER or ?GL_FRAGMENT_SHADER. PrecisionType specifies the numeric format to query and must be one of ?GL_LOW_FLOAT, ?GL_MEDIUM_FLOAT ?GL_HIGH_FLOAT, ?GL_LOW_INT, ?GL_MEDIUM_INT, or ?GL_HIGH_INT.

See **external** documentation.

```
depthRangef(N, F) -> ok
```

Types:

```
N = clamp()  
F = clamp()
```

See *depthRange/2*

```
clearDepthf(D) -> ok
```

Types:

```
D = clamp()
```

glClearDepthf

See *external* documentation.

```
getProgramBinary(Program, BufSize) -> {BinaryFormat::enum(),  
Binary::binary()}
```

Types:

```
Program = integer()  
BufSize = integer()
```

Return a binary representation of a program object's compiled and linked executable source

gl::getProgramBinary returns a binary representation of the compiled and linked executable for Program into the array of bytes whose address is specified in Binary . The maximum number of bytes that may be written into Binary is specified by BufSize . If the program binary is greater in size than BufSize bytes, then an error is generated, otherwise the actual number of bytes written into Binary is returned in the variable whose address is given by Length . If Length is ?NULL, then no length is returned.

See **external** documentation.

`programBinary(Program, BinaryFormat, Binary) -> ok`

Types:

```
Program = integer()
BinaryFormat = enum()
Binary = binary()
```

Load a program object with a program binary

gl:programBinary loads a program object with a program binary previously returned from gl:getProgramBinary/2 . BinaryFormat and Binary must be those returned by a previous call to gl:getProgramBinary/2 , and Length must be the length returned by gl:getProgramBinary/2 , or by gl:getProgramiv/2 when called with Pname set to ?GL_PROGRAM_BINARY_LENGTH. If these conditions are not met, loading the program binary will fail and Program's ?GL_LINK_STATUS will be set to ?GL_FALSE.

See [external documentation](#).

`programParameteri(Program, Pname, Value) -> ok`

Types:

```
Program = integer()
Pname = enum()
Value = integer()
```

Specify a parameter for a program object

gl:programParameter specifies a new value for the parameter named by Pname for the program object Program .

See [external documentation](#).

`useProgramStages(Pipeline, Stages, Program) -> ok`

Types:

```
Pipeline = integer()
Stages = integer()
Program = integer()
```

Bind stages of a program object to a program pipeline

gl:useProgramStages binds executables from a program object associated with a specified set of shader stages to the program pipeline object given by Pipeline . Pipeline specifies the program pipeline object to which to bind the executables. Stages contains a logical combination of bits indicating the shader stages to use within Program with the program pipeline object Pipeline . Stages must be a logical combination of ?GL_VERTEX_SHADER_BIT, ?GL_TESS_CONTROL_SHADER_BIT, ?GL_TESS_EVALUATION_SHADER_BIT , ?GL_GEOMETRY_SHADER_BIT, and ?GL_FRAGMENT_SHADER_BIT. Additionally, the special value ?GL_ALL_SHADER_BITS may be specified to indicate that all executables contained in Program should be installed in Pipeline .

See [external documentation](#).

`activeShaderProgram(Pipeline, Program) -> ok`

Types:

```
Pipeline = integer()
Program = integer()
```

Set the active program object for a program pipeline object

gl:activeShaderProgram sets the linked program named by Program to be the active program for the program pipeline object Pipeline . The active program in the active program pipeline object is the target of calls to gl:uniformIf/2 when no program has been made current through a call to gl:useProgram/1 .

See **external** documentation.

createShaderProgramv(Type, Strings) -> integer()

Types:

```
Type = enum()
strings = iolist()
```

glCreateShaderProgramv

See *external* documentation.

bindProgramPipeline(Pipeline) -> ok

Types:

```
Pipeline = integer()
```

Bind a program pipeline to the current context

gl:bindProgramPipeline binds a program pipeline object to the current context. Pipeline must be a name previously returned from a call to gl:genProgramPipelines/1 . If no program pipeline exists with name Pipeline then a new pipeline object is created with that name and initialized to the default state vector.

See **external** documentation.

deleteProgramPipelines(Pipelines) -> ok

Types:

```
Pipelines = [integer()]
```

Delete program pipeline objects

gl:deleteProgramPipelines deletes the N program pipeline objects whose names are stored in the array Pipelines . Unused names in Pipelines are ignored, as is the name zero. After a program pipeline object is deleted, its name is again unused and it has no contents. If program pipeline object that is currently bound is deleted, the binding for that object reverts to zero and no program pipeline object becomes current.

See **external** documentation.

genProgramPipelines(N) -> [integer()]

Types:

```
N = integer()
```

Reserve program pipeline object names

gl:genProgramPipelines returns N previously unused program pipeline object names in Pipelines . These names are marked as used, for the purposes of gl:genProgramPipelines only, but they acquire program pipeline state only when they are first bound.

See **external** documentation.

isProgramPipeline(Pipeline) -> 0 | 1

Types:

```
Pipeline = integer()
```

Determine if a name corresponds to a program pipeline object

`gl:isProgramPipeline` returns `?GL_TRUE` if `Pipeline` is currently the name of a program pipeline object. If `Pipeline` is zero, or if `?pipeline` is not the name of a program pipeline object, or if an error occurs, `gl:isProgramPipeline` returns `?GL_FALSE`. If `Pipeline` is a name returned by `gl:genProgramPipelines/1`, but that has not yet been bound through a call to `gl:bindProgramPipeline/1`, then the name is not a program pipeline object and `gl:isProgramPipeline` returns `?GL_FALSE`.

See **external** documentation.

`getProgramPipelineiv(Pipeline, Pname) -> integer()`

Types:

```
Program = integer()
Pname = enum()
```

Retrieve properties of a program pipeline object

`gl:getProgramPipelineiv` retrieves the value of a property of the program pipeline object `Pipeline`. `Pname` specifies the name of the parameter whose value to retrieve. The value of the parameter is written to the variable whose address is given by `Params`.

See **external** documentation.

`programUniformli(Program, Location, V0) -> ok`

Types:

```
Program = integer()
Location = integer()
V0 = integer()
```

Specify the value of a uniform variable for a specified program object

`gl:programUniform` modifies the value of a uniform variable or a uniform variable array. The location of the uniform variable to be modified is specified by `Location`, which should be a value returned by `gl:getUniformLocation/2`. `gl:programUniform` operates on the program object specified by `Program`.

See **external** documentation.

`programUniformliv(Program, Location, Value) -> ok`

Types:

```
Program = integer()
Location = integer()
Value = [integer()]
```

See `programUniformli/3`

`programUniformlf(Program, Location, V0) -> ok`

Types:

```
Program = integer()
Location = integer()
V0 = float()
```

See `programUniformli/3`

`programUniform1fv(Program, Location, Value) -> ok`
Types:

```
Program = integer()  
Location = integer()  
Value = [float()]
```

See *programUniform1i/3*

`programUniform1d(Program, Location, V0) -> ok`
Types:

```
Program = integer()  
Location = integer()  
V0 = float()
```

See *programUniform1i/3*

`programUniform1dv(Program, Location, Value) -> ok`
Types:

```
Program = integer()  
Location = integer()  
Value = [float()]
```

See *programUniform1i/3*

`programUniform1ui(Program, Location, V0) -> ok`
Types:

```
Program = integer()  
Location = integer()  
V0 = integer()
```

See *programUniform1i/3*

`programUniform1uiv(Program, Location, Value) -> ok`
Types:

```
Program = integer()  
Location = integer()  
Value = [integer()]
```

See *programUniform1i/3*

`programUniform2i(Program, Location, V0, V1) -> ok`
Types:

```
Program = integer()  
Location = integer()  
V0 = integer()  
V1 = integer()
```

See *programUniform1i/3*

`programUniform2iv(Program, Location, Value) -> ok`

Types:

```
Program = integer()
Location = integer()
Value = [{integer(), integer()}]
```

See *programUniform1i/3*

`programUniform2f(Program, Location, V0, V1) -> ok`

Types:

```
Program = integer()
Location = integer()
V0 = float()
V1 = float()
```

See *programUniform1i/3*

`programUniform2fv(Program, Location, Value) -> ok`

Types:

```
Program = integer()
Location = integer()
Value = [{float(), float()}]
```

See *programUniform1i/3*

`programUniform2d(Program, Location, V0, V1) -> ok`

Types:

```
Program = integer()
Location = integer()
V0 = float()
V1 = float()
```

See *programUniform1i/3*

`programUniform2dv(Program, Location, Value) -> ok`

Types:

```
Program = integer()
Location = integer()
Value = [{float(), float()}]
```

See *programUniform1i/3*

`programUniform2ui(Program, Location, V0, V1) -> ok`

Types:

```
Program = integer()
Location = integer()
V0 = integer()
V1 = integer()
```

See *programUniform1i/3*

programUniform2uiv(Program, Location, Value) -> ok

Types:

```
Program = integer()
Location = integer()
Value = [{integer(), integer()}]
```

See *programUniform1i/3*

programUniform3i(Program, Location, V0, V1, V2) -> ok

Types:

```
Program = integer()
Location = integer()
V0 = integer()
V1 = integer()
V2 = integer()
```

See *programUniform1i/3*

programUniform3iv(Program, Location, Value) -> ok

Types:

```
Program = integer()
Location = integer()
Value = [{integer(), integer(), integer()}]
```

See *programUniform1i/3*

programUniform3f(Program, Location, V0, V1, V2) -> ok

Types:

```
Program = integer()
Location = integer()
V0 = float()
V1 = float()
V2 = float()
```

See *programUniform1i/3*

programUniform3fv(Program, Location, Value) -> ok

Types:

```
Program = integer()
Location = integer()
Value = [{float(), float(), float()}]
```

See *programUniform1i/3*

programUniform3d(Program, Location, V0, V1, V2) -> ok

Types:

```
Program = integer()
Location = integer()
V0 = float()
V1 = float()
V2 = float()
```

See *programUniform1i/3*

programUniform3dv(**Program**, **Location**, **Value**) -> ok

Types:

```
Program = integer()
Location = integer()
Value = [{float(), float(), float()}]
```

See *programUniform1i/3*

programUniform3ui(**Program**, **Location**, **V0**, **V1**, **V2**) -> ok

Types:

```
Program = integer()
Location = integer()
V0 = integer()
V1 = integer()
V2 = integer()
```

See *programUniform1i/3*

programUniform3uiv(**Program**, **Location**, **Value**) -> ok

Types:

```
Program = integer()
Location = integer()
Value = [{integer(), integer(), integer()}]
```

See *programUniform1i/3*

programUniform4i(**Program**, **Location**, **V0**, **V1**, **V2**, **V3**) -> ok

Types:

```
Program = integer()
Location = integer()
V0 = integer()
V1 = integer()
V2 = integer()
V3 = integer()
```

See *programUniform1i/3*

programUniform4iv(**Program**, **Location**, **Value**) -> ok

Types:

```
Program = integer()
```

```
Location = integer()
Value = [{integer(), integer(), integer(), integer()}]
```

See *programUniformIi/3*

programUniform4f(Program, Location, V0, V1, V2, V3) -> ok

Types:

```
Program = integer()
Location = integer()
V0 = float()
V1 = float()
V2 = float()
V3 = float()
```

See *programUniformIi/3*

programUniform4fv(Program, Location, Value) -> ok

Types:

```
Program = integer()
Location = integer()
Value = [{float(), float(), float(), float()}]
```

See *programUniformIi/3*

programUniform4d(Program, Location, V0, V1, V2, V3) -> ok

Types:

```
Program = integer()
Location = integer()
V0 = float()
V1 = float()
V2 = float()
V3 = float()
```

See *programUniformIi/3*

programUniform4dv(Program, Location, Value) -> ok

Types:

```
Program = integer()
Location = integer()
Value = [{float(), float(), float(), float()}]
```

See *programUniformIi/3*

programUniform4ui(Program, Location, V0, V1, V2, V3) -> ok

Types:

```
Program = integer()
Location = integer()
V0 = integer()
```

```

V1 = integer()
V2 = integer()
V3 = integer()

```

See *programUniform1i/3*

programUniform4uiv(Program, Location, Value) -> ok

Types:

```

Program = integer()
Location = integer()
Value = [{integer(), integer(), integer(), integer()}]

```

See *programUniform1i/3*

programUniformMatrix2fv(Program, Location, Transpose, Value) -> ok

Types:

```

Program = integer()
Location = integer()
Transpose = 0 | 1
Value = [{float(), float(), float(), float()}]

```

See *programUniform1i/3*

programUniformMatrix3fv(Program, Location, Transpose, Value) -> ok

Types:

```

Program = integer()
Location = integer()
Transpose = 0 | 1
Value = [{float(), float(), float(), float(), float(), float(),
           float(), float()}]

```

See *programUniform1i/3*

programUniformMatrix4fv(Program, Location, Transpose, Value) -> ok

Types:

```

Program = integer()
Location = integer()
Transpose = 0 | 1
Value = [{float(), float(), float(), float(), float(), float(),
           float(), float(), float(), float(), float(), float(),
           float(), float()}]

```

See *programUniform1i/3*

programUniformMatrix2dv(Program, Location, Transpose, Value) -> ok

Types:

```

Program = integer()
Location = integer()

```

```
Transpose = 0 | 1
Value = [{float(), float(), float(), float()}]
```

See *programUniformIi/3*

programUniformMatrix3dv(Program, Location, Transpose, Value) -> ok

Types:

```
Program = integer()
Location = integer()
Transpose = 0 | 1
Value = [{float(), float(), float(), float(), float(), float(),
          float(), float()}]
```

See *programUniformIi/3*

programUniformMatrix4dv(Program, Location, Transpose, Value) -> ok

Types:

```
Program = integer()
Location = integer()
Transpose = 0 | 1
Value = [{float(), float(), float(), float(), float(), float(),
          float(), float(), float(), float(), float(),
          float(), float()}]
```

See *programUniformIi/3*

programUniformMatrix2x3fv(Program, Location, Transpose, Value) -> ok

Types:

```
Program = integer()
Location = integer()
Transpose = 0 | 1
Value = [{float(), float(), float(), float(), float(), float()}]
```

See *programUniformIi/3*

programUniformMatrix3x2fv(Program, Location, Transpose, Value) -> ok

Types:

```
Program = integer()
Location = integer()
Transpose = 0 | 1
Value = [{float(), float(), float(), float(), float(), float()}]
```

See *programUniformIi/3*

programUniformMatrix2x4fv(Program, Location, Transpose, Value) -> ok

Types:

```
Program = integer()
Location = integer()
```

```

Transpose = 0 | 1
Value = [{float(), float(), float(), float(), float(), float(), float(),
float()}]

```

See *programUniform1i/3*

programUniformMatrix4x2fv(**Program**, **Location**, **Transpose**, **Value**) -> ok

Types:

```

Program = integer()
Location = integer()
Transpose = 0 | 1
Value = [{float(), float(), float(), float(), float(), float(), float(),
float()}]

```

See *programUniform1i/3*

programUniformMatrix3x4fv(**Program**, **Location**, **Transpose**, **Value**) -> ok

Types:

```

Program = integer()
Location = integer()
Transpose = 0 | 1
Value = [{float(), float(), float(), float(), float(), float(), float(),
float(), float(), float(), float(), float()}]

```

See *programUniform1i/3*

programUniformMatrix4x3fv(**Program**, **Location**, **Transpose**, **Value**) -> ok

Types:

```

Program = integer()
Location = integer()
Transpose = 0 | 1
Value = [{float(), float(), float(), float(), float(), float(), float(),
float(), float(), float(), float(), float()}]

```

See *programUniform1i/3*

programUniformMatrix2x3dv(**Program**, **Location**, **Transpose**, **Value**) -> ok

Types:

```

Program = integer()
Location = integer()
Transpose = 0 | 1
Value = [{float(), float(), float(), float(), float(), float()}]

```

See *programUniform1i/3*

programUniformMatrix3x2dv(**Program**, **Location**, **Transpose**, **Value**) -> ok

Types:

```

Program = integer()
Location = integer()

```

```
Transpose = 0 | 1
Value = [{float(), float(), float(), float(), float(), float()}]
```

See *programUniformIi/3*

programUniformMatrix2x4dv(Program, Location, Transpose, Value) -> ok

Types:

```
Program = integer()
Location = integer()
Transpose = 0 | 1
Value = [{float(), float(), float(), float(), float(), float(), float(),
          float()}]
```

See *programUniformIi/3*

programUniformMatrix4x2dv(Program, Location, Transpose, Value) -> ok

Types:

```
Program = integer()
Location = integer()
Transpose = 0 | 1
Value = [{float(), float(), float(), float(), float(), float(), float(),
          float()}]
```

See *programUniformIi/3*

programUniformMatrix3x4dv(Program, Location, Transpose, Value) -> ok

Types:

```
Program = integer()
Location = integer()
Transpose = 0 | 1
Value = [{float(), float(), float(), float(), float(), float(), float(),
          float(), float(), float(), float()}]
```

See *programUniformIi/3*

programUniformMatrix4x3dv(Program, Location, Transpose, Value) -> ok

Types:

```
Program = integer()
Location = integer()
Transpose = 0 | 1
Value = [{float(), float(), float(), float(), float(), float(), float(),
          float(), float(), float(), float()}]
```

See *programUniformIi/3*

validateProgramPipeline(Pipeline) -> ok

Types:

```
Pipeline = integer()
```

Validate a program pipeline object against current GL state

`gl:validateProgramPipeline` instructs the implementation to validate the shader executables contained in `Pipeline` against the current GL state. The implementation may use this as an opportunity to perform any internal shader modifications that may be required to ensure correct operation of the installed shaders given the current GL state.

See [external](#) documentation.

`getProgramPipelineInfoLog(Pipeline, BufSize) -> string()`

Types:

```
 Pipeline = integer()
 BufSize = integer()
```

Retrieve the info log string from a program pipeline object

`gl:getProgramPipelineInfoLog` retrieves the info log for the program pipeline object `Pipeline`. The info log, including its null terminator, is written into the array of characters whose address is given by `InfoLog`. The maximum number of characters that may be written into `InfoLog` is given by `BufSize`, and the actual number of characters written into `InfoLog` is returned in the integer whose address is given by `Length`. If `Length` is ?`NULL`, no length is returned.

See [external](#) documentation.

`vertexAttribL1d(Index, X) -> ok`

Types:

```
 Index = integer()
 X = float()
```

`glVertexAttribL`

See [external](#) documentation.

`vertexAttribL2d(Index, X, Y) -> ok`

Types:

```
 Index = integer()
 X = float()
 Y = float()
```

`glVertexAttribL`

See [external](#) documentation.

`vertexAttribL3d(Index, X, Y, Z) -> ok`

Types:

```
 Index = integer()
 X = float()
 Y = float()
 Z = float()
```

`glVertexAttribL`

See [external](#) documentation.

vertexAttribL4d(Index, X, Y, Z, W) -> ok

Types:

```
Index = integer()
X = float()
Y = float()
Z = float()
W = float()
```

glVertexAttribL

See *external* documentation.

vertexAttribL1dv(Index::integer(), V) -> ok

Types:

```
V = {X::float()}
```

Equivalent to *vertexAttribL1d*(*Index*, *X*).

vertexAttribL2dv(Index::integer(), V) -> ok

Types:

```
V = {X::float(), Y::float()}
```

Equivalent to *vertexAttribL2d*(*Index*, *X*, *Y*).

vertexAttribL3dv(Index::integer(), V) -> ok

Types:

```
V = {X::float(), Y::float(), Z::float()}
```

Equivalent to *vertexAttribL3d*(*Index*, *X*, *Y*, *Z*).

vertexAttribL4dv(Index::integer(), V) -> ok

Types:

```
V = {X::float(), Y::float(), Z::float(), W::float()}
```

Equivalent to *vertexAttribL4d*(*Index*, *X*, *Y*, *Z*, *W*).

vertexAttribLPointer(Index, Size, Type, Stride, Pointer) -> ok

Types:

```
Index = integer()
Size = integer()
Type = enum()
Stride = integer()
Pointer = offset() | mem()
```

glVertexAttribLPointer

See *external* documentation.

getVertexAttribLdv(Index, Pname) -> {float(), float(), float(), float()}

Types:

```
Index = integer()
```

```
Pname = enum( )
```

glGetVertexAttribL

See *external* documentation.

viewportArrayv(First, V) -> ok

Types:

```
First = integer()
V = [{float(), float(), float(), float()}]
```

glViewportArrayv

See *external* documentation.

viewportIndexedf(Index, X, Y, W, H) -> ok

Types:

```
Index = integer()
X = float()
Y = float()
W = float()
H = float()
```

Set a specified viewport

gl:viewportIndexedf and gl:viewportIndexedfv specify the parameters for a single viewport. Index specifies the index of the viewport to modify. Index must be less than the value of ?GL_MAX_VIEWPORTS. For gl:viewportIndexedf, X , Y , W , and H specify the left, bottom, width and height of the viewport in pixels, respectively. For gl:viewportIndexedfv, V contains the address of an array of floating point values specifying the left (x), bottom (y), width (w), and height (h) of each viewport, in that order. x and y give the location of the viewport's lower left corner, and w and h give the width and height of the viewport, respectively. The viewport specifies the affine transformation of x and y from normalized device coordinates to window coordinates. Let (x nd y nd) be normalized device coordinates. Then the window coordinates (x w y w) are computed as follows:

See *external* documentation.

viewportIndexedfv(Index, V) -> ok

Types:

```
Index = integer()
V = {float(), float(), float(), float()}
```

See *viewportIndexedf/5*

scissorArrayv(First, V) -> ok

Types:

```
First = integer()
V = [{integer(), integer(), integer(), integer()}]
```

glScissorArrayv

See *external* documentation.

scissorIndexed(Index, Left, Bottom, Width, Height) -> ok

Types:

```
Index = integer()
Left = integer()
Bottom = integer()
Width = integer()
Height = integer()
```

glScissorIndexe

See *external* documentation.

scissorIndexedv(Index, V) -> ok

Types:

```
Index = integer()
V = {integer(), integer(), integer(), integer()}
```

glScissorIndexe

See *external* documentation.

depthRangeArrayv(First, V) -> ok

Types:

```
First = integer()
V = [{clamp(), clamp()}]
```

glDepthRangeArrayv

See *external* documentation.

depthRangeIndexed(Index, N, F) -> ok

Types:

```
Index = integer()
N = clamp()
F = clamp()
```

glDepthRangeIndexe

See *external* documentation.

getFloati_v(Target, Index) -> [float()]

Types:

```
Target = enum()
Index = integer()
```

See *getBooleanv/I*

getDoublei_v(Target, Index) -> [float()]

Types:

```
Target = enum()
Index = integer()
```

See *getBooleanv/I*

`debugMessageControlARB(Source, Type, Severity, Ids, Enabled) -> ok`

Types:

```
Source = enum()
Type = enum()
Severity = enum()
Ids = [integer()]
Enabled = 0 | 1
```

`glDebugMessageControlARB`

See *external* documentation.

`debugMessageInsertARB(Source, Type, Id, Severity, Buf) -> ok`

Types:

```
Source = enum()
Type = enum()
Id = integer()
Severity = enum()
Buf = string()
```

`glDebugMessageInsertARB`

See *external* documentation.

`getDebugMessageLogARB(Count, Bufsize) -> {integer(), Sources:[enum()], Types:[enum()], Ids:[integer()], Severities:[enum()], MessageLog:[string()]}`

Types:

```
Count = integer()
Bufsize = integer()
```

`glGetDebugMessageLogARB`

See *external* documentation.

`getGraphicsResetStatusARB() -> enum()`

`glGetGraphicsResetStatusARB`

See *external* documentation.

`drawArraysInstancedBaseInstance(Mode, First, Count, Primcount, Baseinstance)
-> ok`

Types:

```
Mode = enum()
First = integer()
Count = integer()
Primcount = integer()
Baseinstance = integer()
```

Draw multiple instances of a range of elements with offset applied to instanced attributes

gl:drawArraysInstancedBaseInstance behaves identically to *gl:drawArrays/3* except that Primcount instances of the range of elements are executed and the value of the internal counter InstanceID advances for each iteration. InstanceID is an internal 32-bit integer counter that may be read by a vertex shader as ?gl_InstanceID .

See **external** documentation.

```
drawElementsInstancedBaseInstance(Mode, Count, Type, Indices, Primcount,  
Baseinstance) -> ok
```

Types:

```
Mode = enum()  
Count = integer()  
Type = enum()  
Indices = offset() | mem()  
Primcount = integer()  
Baseinstance = integer()
```

Draw multiple instances of a set of elements with offset applied to instanced attributes

gl:drawElementsInstancedBaseInstance behaves identically to *gl:drawElements/4* except that Primcount instances of the set of elements are executed and the value of the internal counter InstanceID advances for each iteration. InstanceID is an internal 32-bit integer counter that may be read by a vertex shader as ?gl_InstanceID .

See **external** documentation.

```
drawElementsInstancedBaseVertexBaseInstance(Mode, Count, Type, Indices,  
Primcount, Basevertex, Baseinstance) -> ok
```

Types:

```
Mode = enum()  
Count = integer()  
Type = enum()  
Indices = offset() | mem()  
Primcount = integer()  
Basevertex = integer()  
Baseinstance = integer()
```

Render multiple instances of a set of primitives from array data with a per-element offset

gl:drawElementsInstancedBaseVertexBaseInstance behaves identically to *gl:drawElementsInstanced/5* except that the *i*th element transferred by the corresponding draw call will be taken from element Indices [i] + Basevertex of each enabled array. If the resulting value is larger than the maximum value representable by Type , it is as if the calculation were upconverted to 32-bit unsigned integers (with wrapping on overflow conditions). The operation is undefined if the sum would be negative. The Basevertex has no effect on the shader-visible value of ?gl_VertexID .

See **external** documentation.

```
drawTransformFeedbackInstanced(Mode, Id, Primcount) -> ok
```

Types:

```
Mode = enum()
Id = integer()
Primcount = integer()
```

glDrawTransformFeedbackInstance

See *external* documentation.

drawTransformFeedbackStreamInstanced(**Mode**, **Id**, **Stream**, **Primcount**) -> ok

Types:

```
Mode = enum()
Id = integer()
Stream = integer()
Primcount = integer()
```

glDrawTransformFeedbackStreamInstance

See *external* documentation.

getInternalformativ(**Target**, **Internalformat**, **Pname**, **BufSize**) -> [integer()]

Types:

```
Target = enum()
Internalformat = enum()
Pname = enum()
BufSize = integer()
```

glGetInternalformat

See *external* documentation.

bindImageTexture(**Unit**, **Texture**, **Level**, **Layered**, **Layer**, **Access**, **Format**) -> ok

Types:

```
Unit = integer()
Texture = integer()
Level = integer()
Layered = 0 | 1
Layer = integer()
Access = enum()
Format = enum()
```

Bind a level of a texture to an image unit

gl:bindImageTexture binds a single level of a texture to an image unit for the purpose of reading and writing it from shaders. **Unit** specifies the zero-based index of the image unit to which to bind the texture level. **Texture** specifies the name of an existing texture object to bind to the image unit. If **Texture** is zero, then any existing binding to the image unit is broken. **Level** specifies the level of the texture to bind to the image unit.

See *external* documentation.

memoryBarrier(**Barriers**) -> ok

Types:

```
Barriers = integer()
```

Defines a barrier ordering memory transactions

gl:memoryBarrier defines a barrier ordering the memory transactions issued prior to the command relative to those issued after the barrier. For the purposes of this ordering, memory transactions performed by shaders are considered to be issued by the rendering command that triggered the execution of the shader. Barriers is a bitfield indicating the set of operations that are synchronized with shader stores; the bits used in Barriers are as follows:

See [external](#) documentation.

texStorage1D(Target, Levels, Internalformat, Width) -> ok

Types:

```
Target = enum()
Levels = integer()
Internalformat = enum()
Width = integer()
```

Simultaneously specify storage for all levels of a one-dimensional texture

gl:texStorage1D specifies the storage requirements for all levels of a one-dimensional texture simultaneously. Once a texture is specified with this command, the format and dimensions of all levels become immutable unless it is a proxy texture. The contents of the image may still be modified, however, its storage requirements may not change. Such a texture is referred to as an `immutable-format` texture.

See [external](#) documentation.

texStorage2D(Target, Levels, Internalformat, Width, Height) -> ok

Types:

```
Target = enum()
Levels = integer()
Internalformat = enum()
Width = integer()
Height = integer()
```

Simultaneously specify storage for all levels of a two-dimensional or one-dimensional array texture

gl:texStorage2D specifies the storage requirements for all levels of a two-dimensional texture or one-dimensional texture array simultaneously. Once a texture is specified with this command, the format and dimensions of all levels become immutable unless it is a proxy texture. The contents of the image may still be modified, however, its storage requirements may not change. Such a texture is referred to as an `immutable-format` texture.

See [external](#) documentation.

texStorage3D(Target, Levels, Internalformat, Width, Height, Depth) -> ok

Types:

```
Target = enum()
Levels = integer()
Internalformat = enum()
Width = integer()
Height = integer()
Depth = integer()
```

Simultaneously specify storage for all levels of a three-dimensional, two-dimensional array or cube-map array texture

gl:texStorage3D specifies the storage requirements for all levels of a three-dimensional, two-dimensional array or cube-map array texture simultaneously. Once a texture is specified with this command, the format and dimensions of all levels become immutable unless it is a proxy texture. The contents of the image may still be modified, however, its storage requirements may not change. Such a texture is referred to as an `immutable-format` texture.

See [external](#) documentation.

`depthBoundsEXT(Zmin, Zmax) -> ok`

Types:

```
Zmin = clamp()  
Zmax = clamp()
```

glDepthBoundsEXT

See [external](#) documentation.

`StencilClearTagEXT(StencilTagBits, StencilClearTag) -> ok`

Types:

```
StencilTagBits = integer()  
StencilClearTag = integer()
```

glStencilClearTagEXT

See [external](#) documentation.