

# Package ‘gWidgets2RGtk2’

June 6, 2016

**Type** Package

**Title** Implementation of gWidgets2 for the RGtk2 Package

**Version** 1.0-5

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**URL** <https://github.com/jverzani/gWidgets2RGtk2>

**Description** Implements the 'gWidgets2' API for 'RGtk2.'

**License** GPL-3

**Depends** methods, memoise, RGtk2, gWidgets2(>= 1.0.7)

**Suggests** testthat, cairoDevice

**LazyLoad** yes

**Collate** 'gWidgets2RGtk2-package.R' 'misc.R' 'gtk-misc.R'  
'GComponent.R' 'GContainer.R' 'GWidget.R' 'aaa.R' 'dialogs.R'  
'gaction.R' 'gbutton.R' 'gcalendar.R' 'gcheckbox.R'  
'gcheckboxgroup.R' 'gcombobox.R' 'gtable.R' 'gmenu.R' 'gdf.R'  
'gedit.R' 'gggroup.R' 'gframe.R' 'gexpandgroup.R' 'gfile.R'  
'gformlayout.R' 'ggraphics.R' 'gimage.R' 'glabel.R' 'glayout.R'  
'gnotebook.R' 'gpanedgroup.R' 'gprogressbar.R' 'gradio.R'  
'gseparator.R' 'gslider.R' 'gspinbutton.R' 'gstackwidget.R'  
'gstatusbar.R' 'gtext.R' 'gtimer.R' 'gtoolbar.R' 'gtree.R'  
'gvarbrowser.R' 'gwindow.R' 'icons.R' 'startup.R'

**RoxygenNote** 5.0.1

**NeedsCompilation** no

**Repository** CRAN

**Date/Publication** 2016-06-06 18:04:38

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gWidgets2RGtk2-package

*gWidgets2Rtk2*

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## Description

The **gWidgets2** package provides a programming interface for making graphical user interfaces within R. The package is a rewrite of the **gWidgets** package, introducing a few external changes but a significant number of internal ones. The package relies on one of several underlying toolkit packages providing access to the graphical libraries. This package provides the implementation to interface with the underlying **RGtk2** package.

GComponent is a parent class for both GContainer and GWidget and inherits its primary interface from gWidgets2::BasicToolkitInterface.

GContainer is the base class for container objects. The main method is `add_child`, but there is also book-keeping code to keep track of the child components of the container

GWidget is the Base class for widget objects

GWidgetWithItems is Base class for selection widgets based on a set of items. The key here is the handlers apply to each item, but the handler is assigned to the class member.

For RGtk2, the GButton class has the extra reference method `set_border`. The border argument has been deprecated.

This GTable class for RGtk2 implements a few additional reference methods: `hide_names` to hide the header names; `remove_popup_menu` to remove the popup menu; `add_popup` to add a popup menu

Passing in a value `freeze_attributes = TRUE` will make it so there are no menu items to resize frame, change variable types, relabel factors, .... Values of "row" or "column" will remove popup menus just for the row or columns.

The label class for RGtk2 has the extra method `set_angle` to set the angle for the text. A value of 90 will rotate ccw to read bottom to top

For RGtk2, the Gprogressbar class has the extra reference method `set_border`. The border argument has been deprecated.

The main reference methods GTimer are `start_timer` and `stop_timer`

**Arguments**

... passed to constructor

**Methods**

add\_drag\_motion(handler, action = NULL, ...) Called when motion over widget occurs

add\_to\_parent(parent, child, expand = NULL, fill = NULL, anchor = NULL, ...) Add a child to parent if it is a container and non null. Dispatches to add\_child method of parent

get\_enabled() is widget sensitive to user input

set\_enabled(value, ...) specify with logical if widget is sensitive to user input

set\_rgtk2\_font(obj, value) Set font on a gtkWidget instance

set\_size(value, ...) Set widget size (size request), value=c(width=-1, height=-1)

child\_bookkeeping(child) Update parent property of child and children property of parent container

set\_child\_align(child, alt\_child, anchor) Set child alignment, if a GtkMisc or GtkAlignment object

set\_child\_fill(child, fill, horizontal = TRUE) Fill can be NULL, TRUE, FALSE, 'x', 'y', 'both', 'x', 'y'...

connect\_to\_toolkit\_signal(signal, decorator, emitter = .self\$handler\_widget()) Connect signal of toolkit to notify observer

get\_value(drop = NULL, ...) Get main value of widget. From 'svalue' when index = FALSE or NULL

remove\_border() Remove border by setting relief to none

set\_value(value, ..., drop = NULL) for 'svalue<-' when index = FALSE or NULL

add\_popup(menu\_fun = NULL) Add a popup menu to the columns. Function should generate list of actions, ...

clear\_columns() Clear out old treeview columns in preparation of new

default\_popup\_menu(col\_index) Provide default popup menu (passed to gmenu(..., popup=TRUE))

get\_index(drop = NULL, ...) svalue; index=TRUE

get\_length(...) Get length of object. Needed for supply.

get\_model() Helper: get rGtkDataFrame model, which is filtered

get\_selected() Get selected indices or numeric(0)

get\_valid\_columns() Helper: get column indices less those for icons, tooltips, visible

get\_value(drop = NULL, ...) Get main value of widget. From 'svalue' when index = FALSE or NULL

get\_view\_columns() Helper: get non-icon columns to iterate over

hide\_names(value) adjust visibility of header

make\_columns() Make new columns, watching out for icons, tooltips, visible

make\_icon\_column() Make column for icons

not\_these() Helper: Remove these indices due to icon\_col, ...

remove\_popup\_menu() remove popup menu from column headers  
 set\_focus(value) If we can focus, do so, then raise  
 set\_selected(ind) Set selected rows by index  
 set\_selection\_mode(mode = c("none", "single", "browse", "multiple", "extended"))  
     Helper: Set the selection mode  
 set\_size(value, ...) Set widget size (size request), value=c(width=-1, height=-1)  
 set\_value(value, ..., drop = NULL) for 'svalue<-‘ when index = FALSE or NULL  
 get\_value(drop = NULL, ...) Get main value of widget. From 'svalue' when index = FALSE  
     or NULL  
 set\_angle(angle) Rotate text by angle degrees ccw  
 set\_value(value, ..., drop = NULL) for 'svalue<-‘ when index = FALSE or NULL  
 get\_value(drop = NULL, ...) Get main value of widget. From 'svalue' when index = FALSE  
     or NULL  
 set\_value(value, ..., drop = NULL) for 'svalue<-‘ when index = FALSE or NULL  
 set\_interval(ms) Set the interval. Need to stop and start active timer to implement.  
 start\_timer() Start the timer  
 stop\_timer() stop the timer

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add\_editable\_cell\_renderer

*make a view column for the given type of variable*

---

**Description**

make a view column for the given type of variable

**Usage**

```
add_editable_cell_renderer(x, self, model_idx, view_col)
```

**Arguments**

x	variable
self	reference to ModelView object
model_idx	1-based index in model of data to represent
view_col	optional view column to reuse

**Value**

a gtkTreeViewColumn with data "n", and "id" to block editable id

---

ensure_type	<i>S3 generic to ensure we don't change data type when assigning into column</i>
-------------	--

---

**Description**

S3 generic to ensure we don't change data type when assigning into column

**Usage**

```
ensure_type(x, value)
```

**Arguments**

x	column values
value	new value

**Value**

coerced new value

---

GComponentObservable	<i>GComponentObservable adds the observable interface</i>
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---

**Description**

GComponentObservable adds the observable interface

**Usage**

```
GComponentObservable(...)
```

**Arguments**

...	passed to constructor
-----	-----------------------

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GEdit	<i>The GEdit class adds some methods beyond the spec: set_error, clear_error, validate_value</i>
-------	--

---

**Description**

The GEdit class adds some methods beyond the spec: set\_error, clear\_error, validate\_value

**Usage**

```
GEdit(...)
```

**Arguments**

...                    passed to constructor

---

getWidget.RGtkObject	<i>method for stopping getWidget</i>
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---

**Description**

method for stopping getWidget

S3 method for stopping getBlock

The gWidgets separation of API from toolkit requires the exporting of "dot" functions from each toolkit package. These are not documented, as they mirror the definition in the API package, but must be to get pass R's package check. Hence this stub.

toolkit implementation for gmessage

toolkit implementation for gconfirm

toolkit implmentation of ginput

toolkit implementation

toolkit implementation of galert

Toolkit constructor

toolkit constructor

Toolkit constructor

Toolkit XXX constructor

Toolkit constructor

Toolkit constructor

Toolkit constructor

Toolkit constructor

Toolkit constructor

Toolkit gedit constructor  
toolkit constructor for ggroup  
gframe constructor  
toolkit constructor  
Toolkit implementation  
Toolkit constructor  
Toolkit constructor  
Toolkit constructor  
Toolkit constructor  
Toolkit label constructor  
Toolkit constructor  
Toolkit constructor  
Toolkit constructor  
Toolkit constructor  
Toolkit constructor  
Toolkit constructor  
Toolkit constructor  
Toolkit XXX constructor  
Toolkit constructor  
Toolkit constructor  
toolkit implementation  
S3 method for gtimer  
Toolkit constructor  
Toolkit constructor  
Toolkit constructor  
toolkit constructor for gwindow  
add stock icons  
Returns list of stock ids  
return stock id  
helper function  
return stock id from object

**Usage**

```
## S3 method for class 'RGtkObject'  
getWidget(obj)  
  
## S3 method for class 'RGtkObject'  
getBlock(obj)
```

```
.docstub()

## S3 method for class 'guiWidgetsToolkitRGtk2'
.gmessage(toolkit, msg, title = "message",
  icon = c("info", "warning", "error", "question"), parent = NULL, ...)

## S3 method for class 'guiWidgetsToolkitRGtk2'
.gconfirm(toolkit, msg, title = "Confirm",
  icon = c("info", "warning", "error", "question"), parent = NULL, ...)

## S3 method for class 'guiWidgetsToolkitRGtk2'
.ginput(toolkit, msg, text = "",
  title = "Input", icon = c("info", "warning", "error", "question"),
  parent = NULL, ...)

## S3 method for class 'guiWidgetsToolkitRGtk2'
.gbasicdialog(toolkit, title = "Dialog",
  parent = NULL, do.buttons = TRUE, handler = NULL, action = NULL, ...)

## S3 method for class 'guiWidgetsToolkitRGtk2'
.galert(toolkit, msg, title = "message",
  delay = 3, parent = NULL, ...)

## S3 method for class 'guiWidgetsToolkitRGtk2'
.gaction(toolkit, label, tooltip = NULL,
  icon = NULL, key.accel = NULL, handler = NULL, action = NULL,
  parent = NULL, ...)

## S3 method for class 'guiWidgetsToolkitRGtk2'
.gbutton(toolkit, text, handler, action,
  container, ...)

## S3 method for class 'guiWidgetsToolkitRGtk2'
.gcalendar(toolkit, text = "",
  format = "%Y-%m-%d", handler = NULL, action = NULL,
  container = NULL, ...)

## S3 method for class 'guiWidgetsToolkitRGtk2'
.gcheckbox(toolkit, text, checked = FALSE,
  use.togglebutton = FALSE, handler = NULL, action = NULL,
  container = NULL, ...)

## S3 method for class 'guiWidgetsToolkitRGtk2'
.gcheckboxgroup(toolkit = NULL, items,
  checked = FALSE, horizontal = FALSE, use.table = FALSE,
  handler = NULL, action = NULL, container = NULL, ...)
```

```
## S3 method for class 'guiWidgetsToolkitRGtk2'
.gcombobox(toolkit, items, selected = 1,
  editable = FALSE, coerce.with = NULL, handler = NULL, action = NULL,
  container = NULL, ...)

## S3 method for class 'guiWidgetsToolkitRGtk2'
.gtable(toolkit, items, multiple = FALSE,
  chosen.col = 1, icon.col = NULL, tooltip.col = NULL, handler = NULL,
  action = NULL, container = NULL, ...)

## S3 method for class 'guiWidgetsToolkitRGtk2'
.gmenu(toolkit, menu.list = list(),
  popup = FALSE, container = NULL, ...)

## S3 method for class 'guiWidgetsToolkitRGtk2'
.gdf(toolkit, items = NULL, handler = NULL,
  action = NULL, container = NULL, ...)

## S3 method for class 'guiWidgetsToolkitRGtk2'
.gedit(toolkit, text = "", width = 25,
  coerce.with = NULL, initial.msg = initial.msg, handler = NULL,
  action = NULL, container = NULL, ...)

## S3 method for class 'guiWidgetsToolkitRGtk2'
.ggroup(toolkit, horizontal = TRUE,
  spacing = 5, use.scrollwindow = FALSE, container = NULL, ...)

## S3 method for class 'guiWidgetsToolkitRGtk2'
.gframe(toolkit, text, markup, pos,
  horizontal = TRUE, spacing = 5, container = NULL, ...)

## S3 method for class 'guiWidgetsToolkitRGtk2'
.gexpandgroup(toolkit, text, markup,
  horizontal = TRUE, handler = NULL, action = NULL, container = NULL,
  ...)

## S3 method for class 'guiWidgetsToolkitRGtk2'
.gfile(toolkit, text = "", type = c("open",
  "save", "selectdir"), initial.filename = NULL, initial.dir = getwd(),
  filter = list(), multi = FALSE, ...)

## S3 method for class 'guiWidgetsToolkitRGtk2'
.gfilebrowse(toolkit, text = "",
  type = c("open", "save", "selectdir"), initial.filename = NULL,
  initial.dir = getwd(), filter = list(), quote = TRUE, handler = NULL,
  action = NULL, container = NULL, ...)

## S3 method for class 'guiWidgetsToolkitRGtk2'
```

```
.gformlayout(toolkit, align = "left",
  spacing = 5, container = NULL, ...)

## S3 method for class 'guiWidgetsToolkitRGtk2'
.ggraphics(toolkit, width = dpi * 6,
  height = dpi * 6, dpi = 75, ps = 12, handler = NULL, action = NULL,
  container = NULL, ...)

## S3 method for class 'guiWidgetsToolkitRGtk2'
.gimage(toolkit, filename = "",
  dirname = "", stock.id = NULL, size = "", handler = NULL,
  action = NULL, container = NULL, ...)

## S3 method for class 'guiWidgetsToolkitRGtk2'
.glabel(toolkit, text = "", markup = FALSE,
  editable = FALSE, handler = NULL, action = NULL, container = NULL,
  ...)

## S3 method for class 'guiWidgetsToolkitRGtk2'
.glayout(toolkit, homogeneous = FALSE,
  spacing = 10, container = NULL, ...)

## S3 method for class 'guiWidgetsToolkitRGtk2'
.gnotebook(toolkit, tab.pos = 3,
  container = NULL, ...)

## S3 method for class 'guiWidgetsToolkitRGtk2'
.gpanedgroup(toolkit, horizontal = TRUE,
  container = NULL, ...)

## S3 method for class 'guiWidgetsToolkitRGtk2'
.gprogressbar(toolkit, value, container, ...)

## S3 method for class 'guiWidgetsToolkitRGtk2'
.gradio(toolkit, items, selected = 1,
  horizontal = FALSE, handler = NULL, action = NULL, container = NULL,
  ...)

## S3 method for class 'guiWidgetsToolkitRGtk2'
.gseparator(toolkit, horizontal = TRUE,
  container = NULL, ...)

## S3 method for class 'guiWidgetsToolkitRGtk2'
.gslider(toolkit, from = 0, to = 100,
  by = 1, value = from, horizontal = TRUE, handler = NULL,
  action = NULL, container = NULL, ...)

## S3 method for class 'guiWidgetsToolkitRGtk2'
```

```
.gspinbutton(toolkit, from = 0, to = 10,  
  by = 1, value = from, digits = 0, handler = NULL, action = NULL,  
  container = NULL, ...)  
  
## S3 method for class 'guiWidgetsToolkitRGtk2'  
.gstackwidget(toolkit, container = NULL, ...)  
  
## S3 method for class 'guiWidgetsToolkitRGtk2'  
.gstatusbar(toolkit, text = "",  
  container = NULL, ...)  
  
## S3 method for class 'guiWidgetsToolkitRGtk2'  
.gtext(toolkit, text = NULL, width = NULL,  
  height = 300, font.attr = NULL, wrap = TRUE, handler = NULL,  
  action = NULL, container = NULL, ...)  
  
## S3 method for class 'guiWidgetsToolkitRGtk2'  
.gtimer(toolkit, ms, FUN, data = NULL,  
  one.shot = FALSE, start = TRUE)  
  
## S3 method for class 'guiWidgetsToolkitRGtk2'  
.gtoolbar(toolkit, toolbar.list = list(),  
  style = c("both", "icons", "text", "both-horiz"), container = NULL, ...)  
  
## S3 method for class 'guiWidgetsToolkitRGtk2'  
.gtree(toolkit, offspring = NULL,  
  offspring.data = NULL, chosen.col = 1, offspring.col = 2,  
  icon.col = NULL, tooltip.col = NULL, multiple = FALSE, handler = NULL,  
  action = NULL, container = NULL, ...)  
  
## S3 method for class 'guiWidgetsToolkitRGtk2'  
.gvarbrowser(toolkit, handler = NULL,  
  action = "summary", container = NULL, ...)  
  
## S3 method for class 'guiWidgetsToolkitRGtk2'  
.gwindow(toolkit, title, visible = visible,  
  name, width, height, parent, handler, action, ...)  
  
## S3 method for class 'guiWidgetsToolkitRGtk2'  
.addStockIcons(toolkit, iconNames, iconFiles,  
  ...)  
  
## S3 method for class 'guiWidgetsToolkitRGtk2'  
.getStockIcons(toolkit, ...)  
  
## S3 method for class 'guiWidgetsToolkitRGtk2'  
.getStockIconByName(toolkit, name, ...)
```

```
addToGtkStockIcons(iconNames, iconFiles)

## S3 method for class 'guiWidgetsToolkitRGtk2'
.stockIconFromObject(toolkit,obj, ...)
```

### Arguments

<code>obj</code>	R object to get icon from
<code>toolkit</code>	undocumented argument, cf. <code>gWidgets2</code> documentation.
<code>msg</code>	undocumented argument, cf. <code>gWidgets2</code> documentation.
<code>title</code>	undocumented argument, cf. <code>gWidgets2</code> documentation.
<code>icon</code>	undocumented argument, cf. <code>gWidgets2</code> documentation.
<code>parent</code>	undocumented argument, cf. <code>gWidgets2</code> documentation.
<code>...</code>	undocumented argument, cf. <code>gWidgets2</code> documentation.
<code>text</code>	undocumented argument, cf. <code>gWidgets2</code> documentation.
<code>do.buttons</code>	undocumented argument, cf. <code>gWidgets2</code> documentation.
<code>handler</code>	undocumented argument, cf. <code>gWidgets2</code> documentation.
<code>action</code>	undocumented argument, cf. <code>gWidgets2</code> documentation.
<code>delay</code>	undocumented argument, cf. <code>gWidgets2</code> documentation.
<code>label</code>	undocumented argument, cf. <code>gWidgets2</code> documentation.
<code>tooltip</code>	undocumented argument, cf. <code>gWidgets2</code> documentation.
<code>key.accel</code>	undocumented argument, cf. <code>gWidgets2</code> documentation.
<code>container</code>	undocumented argument, cf. <code>gWidgets2</code> documentation.
<code>format</code>	undocumented argument, cf. <code>gWidgets2</code> documentation.
<code>checked</code>	undocumented argument, cf. <code>gWidgets2</code> documentation.
<code>use.togglebutton</code>	undocumented argument, cf. <code>gWidgets2</code> documentation.
<code>items</code>	undocumented argument, cf. <code>gWidgets2</code> documentation.
<code>horizontal</code>	undocumented argument, cf. <code>gWidgets2</code> documentation.
<code>use.table</code>	undocumented argument, cf. <code>gWidgets2</code> documentation.
<code>selected</code>	undocumented argument, cf. <code>gWidgets2</code> documentation.
<code>editable</code>	undocumented argument, cf. <code>gWidgets2</code> documentation.
<code>coerce.with</code>	undocumented argument, cf. <code>gWidgets2</code> documentation.
<code>multiple</code>	undocumented argument, cf. <code>gWidgets2</code> documentation.
<code>chosen.col</code>	undocumented argument, cf. <code>gWidgets2</code> documentation.
<code>icon.col</code>	undocumented argument, cf. <code>gWidgets2</code> documentation.
<code>tooltip.col</code>	undocumented argument, cf. <code>gWidgets2</code> documentation.
<code>menu.list</code>	undocumented argument, cf. <code>gWidgets2</code> documentation.
<code>popup</code>	undocumented argument, cf. <code>gWidgets2</code> documentation.

<code>width</code>	width of device (pixels)
<code>initial.msg</code>	undocumented argument, cf. <code>gWidgets2</code> documentation.
<code>spacing</code>	undocumented argument, cf. <code>gWidgets2</code> documentation.
<code>use.scrollwindow</code>	undocumented argument, cf. <code>gWidgets2</code> documentation.
<code>markup</code>	undocumented argument, cf. <code>gWidgets2</code> documentation.
<code>pos</code>	undocumented argument, cf. <code>gWidgets2</code> documentation.
<code>type</code>	undocumented argument, cf. <code>gWidgets2</code> documentation.
<code>initial.filename</code>	undocumented argument, cf. <code>gWidgets2</code> documentation.
<code>initial.dir</code>	undocumented argument, cf. <code>gWidgets2</code> documentation.
<code>filter</code>	undocumented argument, cf. <code>gWidgets2</code> documentation.
<code>multi</code>	undocumented argument, cf. <code>gWidgets2</code> documentation.
<code>quote</code>	undocumented argument, cf. <code>gWidgets2</code> documentation.
<code>align</code>	undocumented argument, cf. <code>gWidgets2</code> documentation.
<code>height</code>	height of device (pixels)
<code>dpi</code>	dots per inch
<code>ps</code>	pointsize
<code>filename</code>	undocumented argument, cf. <code>gWidgets2</code> documentation.
<code>dirname</code>	undocumented argument, cf. <code>gWidgets2</code> documentation.
<code>stock.id</code>	undocumented argument, cf. <code>gWidgets2</code> documentation.
<code>size</code>	undocumented argument, cf. <code>gWidgets2</code> documentation.
<code>homogeneous</code>	undocumented argument, cf. <code>gWidgets2</code> documentation.
<code>tab.pos</code>	undocumented argument, cf. <code>gWidgets2</code> documentation.
<code>value</code>	undocumented argument, cf. <code>gWidgets2</code> documentation.
<code>from</code>	undocumented argument, cf. <code>gWidgets2</code> documentation.
<code>to</code>	undocumented argument, cf. <code>gWidgets2</code> documentation.
<code>by</code>	undocumented argument, cf. <code>gWidgets2</code> documentation.
<code>digits</code>	digits
<code>font.attr</code>	undocumented argument, cf. <code>gWidgets2</code> documentation.
<code>wrap</code>	undocumented argument, cf. <code>gWidgets2</code> documentation.
<code>ms</code>	undocumented argument, cf. <code>gWidgets2</code> documentation.
<code>FUN</code>	undocumented argument, cf. <code>gWidgets2</code> documentation.
<code>data</code>	undocumented argument, cf. <code>gWidgets2</code> documentation.
<code>one.shot</code>	undocumented argument, cf. <code>gWidgets2</code> documentation.
<code>start</code>	undocumented argument, cf. <code>gWidgets2</code> documentation.
<code>toolbar.list</code>	undocumented argument, cf. <code>gWidgets2</code> documentation.
<code>style</code>	undocumented argument, cf. <code>gWidgets2</code> documentation.

offspring           undocumented argument, cf. gWidgets2 documentation.  
 offspring.data   undocumented argument, cf. gWidgets2 documentation.  
 offspring.col   undocumented argument, cf. gWidgets2 documentation.  
 visible           undocumented argument, cf. gWidgets2 documentation.  
 name             name of icon  
 iconNames       undocumented argument, cf. gWidgets2 documentation.  
 iconFiles       undocumented argument, cf. gWidgets2 documentation.

**See Also**

The documentation for this is found at [gbutton](#).

---

GMessage           *subclass for message dialog*

---

**Description**

subclass for message dialog

**Usage**

GMessage(...)

**Arguments**

...               passed to constructor

---

GTree              *Base class*

---

**Description**

For GTree, there are extra reference methods: `set_multiple` to set whether multiple or single selection is being used.

**Usage**

GTree(...)

**Arguments**

...               passed to constructor

---

GTreeBase	<i>Base class</i>
-----------	-------------------

---

**Description**

For GTree, there are extra reference methods: `set_multiple` to set whether multiple or single selection is being used.

**Usage**

```
GTreeBase(...)
```

**Arguments**

...                   passed to constructor

---

<code>guiWidgetsToolkitRGtk2-class</code>	<i>toolkit class for RGtk2</i>
---	--------------------------------

---

**Description**

toolkit class for RGtk2

---

<code>isFirstMouseClicked</code>	<i>Return TRUE if first mouse click</i>
----------------------------------	---

---

**Description**

To be called from `key-press|release-event`

**Usage**

```
isFirstMouseClicked(e)
```

**Arguments**

e                    event for mouse press

**Value**

TRUE or FALSE

---

`isRightMouseClicked`      *Return TRUE/FALSE if right mouse click*

---

**Description**

To be called from key-press/release-event

**Usage**

`isRightMouseClicked(e)`

**Arguments**

`e`                      event for mouse press

**Value**

TRUE or FALSE

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