

Package ‘gWidgets2RGtk2’

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Type Package

Title Implementation of gWidgets2 for the RGtk2 Package

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

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

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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'

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gWidgets2RGtk2-package

gWidgets2Rtk2

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, ", '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<-'
 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<-'
 get_value(drop = NULL, ...) Get main value of widget. From 'svalue' when index = FALSE
 or NULL
 set_value(value, ..., drop = NULL) for 'svalue<-'
 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>
----------------------	---

Description

GComponentObservable adds the observable interface

Usage

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

Arguments

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

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>
----------------------	--------------------------------------

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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