

# Package ‘gWidgetsJava’

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**Version** 0.0-15

**Title** Toolkit implementation of gWidgets for rJava

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**Depends** R (>= 2.5.0), methods, gWidgets(>= 0.0.32), rJava(>= 0.5-0)

**Suggests**

**Description** Port of gWidgets API to the rJava interface between R and Java.

**License** GPL (>= 2)

**URL** <http://www.math.csi.cuny.edu/pmg>

**LazyLoad** yes

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gWidgetsJava-package

*Toolkit implementation of gWidgets for rJava*

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## Description

Port of gWidgets API to rJava. The gWidgets API is an abstract, lightweight means to interact with GUI toolkits. In this case, the JAVA toolkit.

## Details

This file documents differences between gWidgetsJava and the gWidgets API. Currently, gWidget-srJava only provides a no-frills version of gWidgets, as compared to gWidgetsRGtk2.

Notes on this implementation:

First, although the widgets can be constructed from the R commandline, they can only be given handlers (or a response to mouse events) if the package is run with the **JGR** environment. This is a limitation of the **rJava** package which provides the interface to the Java libraries from within R.

### Containers:

To speed up the display of complicated GUIs, the `visible=FALSE` argument to the `gwindow` constructor can be used to suppress the showing of the window and its child components. The method `visible` can then be used to show the GUI.

`gframe()` no markup in title

`glayout()` has two additional arguments: `expand=TRUE` is like `expand=` for `ggroup()`, in that the attached widget expands to fill the possible space in the container. If this isn't given the `anchor=` argument can be used to adjust the location of the widget within the cell. A value of `c(-1,1)` is the lower left, `c(-1,-1)` the upper left (the default), `c(1,-1)` the lower right, and `c(1,1)` the upper right. The value 0 for either is also possible.

`ggroup()` also has the `expand=` and `anchor=` arguments. If `expand=TRUE` the widget takes up as much space as possible. The `anchor=` argument adjusts a widget left or right, up or down, within its space. Only one component works at a time for the `anchor` argument. In a horizontal box, only the `y` component can be used to move a value up or down. In a vertical box, only the `x` component can be used to move a value left or right. The default is `c(-1,1)` so that horizontal layouts are towards the top, and vertical layouts towards the left.

### Components:

`gcalendar()` is mostly implemented. It uses a calendar widget from <http://java.sun.com/developer/JDCTechTips/2005/tt0601.html>, a now defunct project. The return value of `svalue()` is a `Date` object, not a character string, formatted by the `format=` string.

`gcommandline()` is implemented, but could definitely be improved. The console in JGR is much better.

`gdf()` works, looks bad. It is *slow*

`gdfnotebook()` needs to be changed to run. Not implemented

`gedit()`, unlike the **gWidgetsRGtk2** widget, has no type-ahead support via drop down boxes. The method `addHandlerKeystroke` does not have the key returned through the `h$key` component.

`ghelpbrowser()` just uses the one from **JGR**, its methods are not implemented.

`gimage()` size argument is ignored. It seems that images get cached. If you try something like `svalue(gimageInstance) <- file; update(file); svalue(gimageInstance) <- file` then the updated file won't be loaded.

`gfile()` no filtering is implemented.

`gmenu()` adds only to the top window, not any container. This is a Java limitation. Use a popup-menu instead.

`gstatusbar()` is just a `glabel` instance in disguise.

`gradio()` has an extra argument `coerce.with=`, as otherwise it would treat everything as a character vector. It tries to guess when instantiated, if not explicitly given.

`gslider()` in **rJava** works with integer steps only. If the `by=` argument is less than 1 a `gspinbutton()` is used in place.

### Handlers:

There is no support for `adddropsource()`, `adddroptarget()` and `adddropmotion()`. Drag and drop basically works as typical, you drag it and it adds where dropped.

### Note

This package uses Java source code from several GPL projects: `xnap-common`, the Java tutorial, `iWidgets`, `javadesktop.org`.

### Author(s)

John Verzani, although based on the **iWidgets** package of Simon Urbanek, incorporating some GPL and LGPL software from the eclipse project, the `javadesktop.org` project, the `scigraphics` project and code from the Java Tutorial by SUN.

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## References

See JGR's website at [www.rosuda.org](http://www.rosuda.org).

## See Also

The JGR package: [www.rosuda.org](http://www.rosuda.org)

## Examples

```
## Not run:
##
options(guiToolkit="rJava")
## select CRAN mirror example
win = gwindow("Select a CRAN mirror")
size(win) = c(600,400)
tbl = gtable(utils:::getCRANmirrors(),
  container=win,
  chosencol=4,
  handler = function(h,...) {
    URL = svalue(h$obj)
    repos = getOption("repos")
    repos["CRAN"] = gsub("/$", "", URL[1])
    options(repos = repos)
    dispose(win)
  })
##
## End(Not run)
```

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gWidgetsRJava-undocumented

*Undocumented functions in gWidgetsRJava*

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## Description

The gWidgetsRJava package implements the gWidgets API. In gWidgets the primary constructors and methods are documented. The **gWidgets** package defines the generics, and the dispatch is handled by methods defined in the toolkit implementations. There are two levels of dispatch. The method `method` dispatches to the generic `.method` based on the toolkit, and this dispatches within the toolkit. As the toolkits simply provide the objects `.method`, there is no reason to document them in the toolkits.

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