

Package ‘gWidgetstcltk’

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Title Toolkit implementation of gWidgets for tcltk package

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Depends methods, gWidgets(>= 0.0.37), tcltk(>= 2.7.0)

Suggests

Description Port of gWidgets API to the tcltk package. Requires TK 8.5 or greater for the tile (ttk)widgets <http://www.tcl.tk/software/tcltk/8.5.tml>. This is default on Windows. Under linux, it must be installed. Under Mac OS X (10.5) it must be upgraded. See www.tcl.tk to download source. Under the Mac it compiles and installs cleanly.

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

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R topics documented:

gWidgetstcltk-package	2
gWidgetstcltk-undocumented	7

Index	8
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 gWidgetstcltk-package

Toolkit implementation of gWidgets for tcltk

Description

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

Details

This file documents differences between **gWidgetstcltk** and the **gWidgets** API, which is documented both in the man pages for that package and in its vignette. The **gWidgetstcltk** package is not as complete as gWidgetsRGtk2. This is due to limitations in the base libraries implementing tcl/tk. This package was designed to work with the limited version that comes with the standard Windows installation of R.

Notes on this implementation:

The primary difference in this version is that each widget requires a container when being constructed. The container is given to the `container` argument. The value may be the logical `TRUE` indicating that a new window is constructed, or a container widget. This precludes the two-step process of creating a widget, then adding it to a container. As such, use the arguments to `add` in the construction of the widget. that is

```
g = ggroup(cont=gwindow("An example"))
b = gbutton("a button")
add(g, b, expand=TRUE)
```

Would be combined, as in:

```
g = ggroup(cont=gwindow("An example"))
gbutton("a button", container=g, expand=TRUE)
```

Other differences are that tcltk does not seem to have a markup language like Pango for GTK or HTML for JAVA, as such the `markup` argument for several widgets that is used to format text is not available. The `font<-` method can substitute.

Until version 8.5 of tk, the basic tcltk installation did not include several widgets that appear in other toolkits. For instance a grid widget, a notebook widget, etc. This package now requires tk 8.5 to work and R 2.7-0 or newer.

Containers:

`gwindow()` The `visible=` argument is ignored. The top-level window is always produced. The `width=` and `height=` arguments refer to the minimum window size, not the preferred default size.

`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.

The use `.scrollwindows` feature is now implemented.

The `addSpring` method is not working as desired.

`gframe()` no markup in title. Use `font<-` to give it markup.

`gexpandgroup()` Works as expected.

`gdfnotebook()` Works with the addition of `ttknotebook`. The `add` method, which is used to add pages, is called when the notebook is given as a container during the construction of a widget. Hence, to add a page something like this is done:

```
nb <- gnotebook(cont=gwindow("Notebook example"))
gbutton("Page 1", cont=nb, label = "tab1")
glabel("Page 2", cont=nb, label = "tab2")
gedit("Page 3", cont=nb, label = "tab3")
```

`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.

`gpanedgroup()` The constructor is called with no widgets. To add a widget to the paned group the paned group is passed as a container, as in

```
pg <- gpanedgroup(container=gwindow("example"), horizontal = FALSE)
b1 = gbutton("button 1", container=pg)
b2 = gbutton("button 2", container=pg)
```

The paned window can be adjusted manually or using the `svalue` method. The `delete` method can be used to delete a widget. It may be added back with the `add` method.

The basic widgets or components: (These may also be known as controls)

`gbutton()` mostly works. The button won't resize to take up all the possible space for a widget, even if `expand=TRUE` is given.

`gcalendar()` is a hack.

`gcheckbox()` works as advertised

`gcheckboxgroup()` works as advertised

`gdf()` is implemented if the user has installed the `tktable` package in Tcl. This is an additional download from tktable.sourceforge.net.

`gdroplist()` Works as expected.

`gedit()`, unlike the **gWidgetsRGtk2** widget, has no type-ahead support via drop down boxes. The widget does not resize automatically. Set the width with `width=` at time of construction or with `size<-`

`gfilebrowse()` works.

`ggraphics()` Not implemented. The **tkrplot** package could be used in some way, but this does not provide a fully embeddable graphics device.

`ghelp()` Works as advertised. Uses a popup menu instead of a notebook, as `gWidgetsRGtk2`.

`gimage()` Only works with gif and pnm files, as the underlying tcltk widget only uses these by default.

`glabel()` No markup available. Use `font<-` instead.

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

Under Mac OS X, menus display in the top menu bar area, not in the parent window.

`gtoolbar()` A hack made from a `ggroup` object that packs in `gbutton` instances. The buttons take up alot of screen real estate, on the default Aqua theme of OS X the buttons are rounded, so the toolbar looks odd, ...

`gaction()` is implemented for buttons, menubars and toolbars. The `key.accel` component is ignored.

`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.

`gseparator()` works as expected.

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

`gspinbutton()` Works as expected. The change handler responds to clicks of the arrows or to the return key in the text area.

`gstatusbar()` A hack. Just a `ggroup()` instance in disguise.

`gtable()` This is built on the underlying tree widget. It is not ideal, but avoids needing to have a separate library (eg. Tktable) installed. The size is a bit of a hack. The tcl widget wants to specify the number of rows to show for the height, but gWidgets specifies the height in pixels. We convert by dividing pixels by 16. The width for the widget is specified by each column. We proportionally allocate the specified width to each column based on the current width of the column. As such, there is no guarantee that setting the size, then querying for the size will produce the same values.

Unfortunately, the `visible` and `visible<-` methods do not work.

`gtext()` The `size<-` method can be used to resize the widget. This method guesses at the conversion from pixels to characters (width) and lines of text (height) used by the underlying widget. The `svalue()` method returns all the text unless some text is selected by the mouse and `:index=TRUE` in which case the indices of the selected text are returned or `drop=TRUE` in which case only the selected text is returned.

`gtree()` Implemented using `ttktreeview`. It is slow however, so use on smaller trees only.

Compound components:

`gcommandline()` is implemented, but could definitely be improved.

`ghelpbrowser()` just calls `ghelp`

`ggenericwidget()` Some kinks need ironing out when the main variable is a formula.

`gdfnotebook()` No `gdf` so no notebook

`ggraphicsnotebook()` No `ggraphics` so no notebook.

`gvarbrowser()` Uses a tree to show heirarchical structure of workspace. Does not poll to update workspace. It does reread workspace when Filter by: value is changed.

Dialogs: (These are modal, hence they have no methods (basically).)

`gfile()` works as advertised.

`gmessage()` works.

`gconfirm()` works.

`ginput()` works.

`gdialog()` is implemented. It is a container. When the `visible(obj, TRUE)` command is issued, the container is shown and made modal.

Handlers:

Currently only one handler (the last one) for a signal is called. That is if you try to add to handlers for a click event, only the last will be called. As well, the `removehandler` function does not work except for the idle handler.

`adddroptarget()`, `adddropsource()`, and `adddropmotion` work for tcltk widgets. The cursor changes to a funny looking cursor, but nothing resembling a drag and drop cursor. One was chosen from the standard cursors. Dragging from other applications is not supported.

Author(s)

John Verzani. Several code segments were inspired by the examples of Wettenhall and the Dalgaard article referenced below. The drag and drop code was modified from code at <http://wiki.tcl.tk/416>. Icons were "borrowed" from several places: the scigraphica project, KDE, and elsewhere.

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References

Peter Dalgaard's RNews article on the tcltk package http://cran.r-project.org/doc/Rnews/Rnews_2001-3.pdf; Several examples on <http://bioinf.wehi.edu.au/~wettenhall/RTclTkExamples/>; The PERL documentation was useful: <http://search.cpan.org/~ni-s/Tk-804.027/>, although this is for the most part a translation of the TK documentation.

For a package somewhat similar in intent see Bowman, Crawford, Alexander, and Bowman's **rpanel** package: <http://www.jstatsoft.org/v17/i09/v17i09.pdf> or the **tkWidgets** package of Zhang www.bioconductor.org.

The **fgui** package provides a similar functionality as `ggenericwidget` in a standalone package.

Examples

```
## Not run:
##
options(guiToolkit="tcltk")
## select CRAN mirror example
setMirror = function(URL) {
  repos = getOption("repos")
  repos["CRAN"] = gsub("/$", "", URL)
  options(repos = repos)
}

win = gwindow("Select a CRAN mirror")
tbl = gtable(utils::getCRANmirrors(),
  container=win,
  chosencol=4,
```

```
handler = function(h,...) {  
  URL = svalue(h$obj)  
  setMirror(URL)  
  dispose(win)  
})  
##  
## End(Not run)
```

gWidgetstcltk-undocumented

Undocumented functions in gWidgetstcltk

Description

The gWidgetstcltk package implements the gWidgets API. In gWidgets the primary constructors and methods are documented. The basic idea is that `function` in gWidgets calls `.function` in gWidgetstcltk. Hence the many functions here.

Index

*Topic **interface** 7

gWidgetstcltk-undocumented, 7

*Topic **package**

gWidgetstcltk-package, 2

.add, gBasicDialogNoParenttcltk, guiWidgetsToolkit, gLayouttcltk, guiWidgetsToolkit, gSeparat
(gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented),

.add, gBasicDialogNoParenttcltk, guiWidgetsToolkit, gLayouttcltk, guiWidgetsToolkit, gSeparat
(gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented),

.add, gBasicDialogNoParenttcltk, guiWidgetsToolkit, gLayouttcltk, guiWidgetsToolkit, gSeparat
(gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented),

.add, gContainertcltk, guiWidgetsToolkit, gLayouttcltk, guiWidgetsToolkit, gSeparat
(gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented),

.add, gContainertcltk, guiWidgetsToolkit, gLayouttcltk, guiWidgetsToolkit, gSeparat
(gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented),

.add, gContainertcltk, guiWidgetsToolkit, gLayouttcltk, guiWidgetsToolkit, gSeparat
(gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented),

.add, gContainertcltk, guiWidgetsToolkit, gLayouttcltk, guiWidgetsToolkit, gSeparat
(gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented),

.add, gContainertcltk, guiWidgetsToolkit, gLayouttcltk, guiWidgetsToolkit, gSeparat
(gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented),

.add, gDfNotebooktcltk, guiWidgetsToolkit, gLayouttcltk, guiWidgetsToolkit, gSeparat
(gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented),

.add, gExpandgrouptcltk, guiWidgetsToolkit, gLayouttcltk, guiWidgetsToolkit, gSeparat
(gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented),

.add, gGrouptcltk, guiWidgetsToolkit, gLayouttcltk, guiWidgetsToolkit, gSeparat
(gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented),

.add, gGrouptcltk, guiWidgetsToolkit, gLayouttcltk, guiWidgetsToolkit, gSeparat
(gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented),

.add, gHelpbrowsertcltk, guiWidgetsToolkit, gLayouttcltk, guiWidgetsToolkit, gSeparat
(gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented),

.add, gHelptcltk, guiWidgetsToolkit, gLayouttcltk, guiWidgetsToolkit, gSeparat
(gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented),

[7](#)
 .add, gWindowtcltk, guiWidgetsToolkittcltk, addSpring, gExpandgrouptcltk, guiWidgetsToolkittcltk, (gWidgetstcltk-undocumented), [7](#)
 .add, gWindowtcltk, guiWidgetsToolkittcltk, addSpring-method, (gWidgetstcltk-undocumented), [7](#)
 .add, gWindowtcltk, guiWidgetsToolkittcltk, addStackFrame, guiWidgetsToolkittcltk-method, (gWidgetstcltk-undocumented), [7](#)
 .add, gWindowtcltk, guiWidgetsToolkittcltk, addStackFrame-method, (gWidgetstcltk-undocumented), [7](#)
 .add, gWindowtcltk, guiWidgetsToolkittcltk, addToolBar, guiWidgetsToolkittcltk, (gWidgetstcltk-undocumented), [7](#)
 .add, gWindowtcltk, guiWidgetsToolkittcltk, addToolBar-method, (gWidgetstcltk-undocumented), [7](#)
 .add, gWindowtcltk, guiWidgetsToolkittcltk, addToolBarObject, guiWidgetsToolkittcltk, (gWidgetstcltk-undocumented), [7](#)
 .add, guiWidget, guiWidgetsToolkittcltk, addMethod, tcltkObject, guiWidgetsToolkittcltk, (gWidgetstcltk-undocumented), [7](#)
 .add, guiWidget, guiWidgetsToolkittcltk, addMethodObject, tcltkObject, guiWidgetsToolkittcltk, (gWidgetstcltk-undocumented), [7](#)
 .add-methods, (gWidgetstcltk-undocumented), [7](#)
 .add3rdmousepopupmenu, gLabeltcltk, guiWidgetsToolkittcltk, tcltkObject, guiWidgetsToolkittcltk, (gWidgetstcltk-undocumented), [7](#)
 .add3rdmousepopupmenu, gWidgettcltk, guiWidgetsToolkittcltk, tcltkObject, guiWidgetsToolkittcltk, (gWidgetstcltk-undocumented), [7](#)
 .add3rdmousepopupmenu, tcltkObject, guiWidgetsToolkittcltk, tcltkObject, guiWidgetsToolkittcltk, (gWidgetstcltk-undocumented), [7](#)
 .add3rdmousepopupmenu-methods, (gWidgetstcltk-undocumented), [7](#)
 .addSpace, gContainertcltk, guiWidgetsToolkittcltk, addSpace-method, gWidgettcltk, guiWidgetsToolkittcltk, (gWidgetstcltk-undocumented), [7](#)
 .addSpace, gExpandgrouptcltk, guiWidgetsToolkittcltk, addSpace-method, tcltkObject, guiWidgetsToolkittcltk, (gWidgetstcltk-undocumented), [7](#)
 .addSpace-methods, (gWidgetstcltk-undocumented), [7](#)
 .addSpring, gContainertcltk, guiWidgetsToolkittcltk, addSpring-method, gWidgettcltk, guiWidgetsToolkittcltk, (gWidgetstcltk-undocumented), [7](#)

- 7
- .addhandler, guiWidget, guiWidgetsToolkit.addhandlerchanged, gRadiotcltk, guiWidgetsToolkit.addhandlerchanged, (gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented), 7
- .addhandler, tcltkObject, guiWidgetsToolkit.addhandlerchanged, gSlidertcltk, guiWidgetsToolkit.addhandlerchanged, (gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented), 7
- .addhandler-methods .addhandlerchanged, gSpinbuttontcltk, guiWidgetsToolkit.addhandlerchanged, (gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented), 7
- .addhandlerblur, gWidgettcltk, guiWidgetsToolkit.addhandlerchanged, gSubsetbytcltk, guiWidgetsToolkit.addhandlerchanged, (gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented), 7
- .addhandlerblur-methods .addhandlerchanged, gTableWithFiltertcltk, guiWidgetsToolkit.addhandlerchanged, (gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented), 7
- .addhandlerchanged, gButtontcltk, guiWidgetsToolkit.addhandlerchanged, gTablertcltk, guiWidgetsToolkit.addhandlerchanged, (gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented), 7
- .addhandlerchanged, gCalendartcltk, guiWidgetsToolkit.addhandlerchanged, gTexttcltk, guiWidgetsToolkit.addhandlerchanged, (gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented), 7
- .addhandlerchanged, gCheckboxgrouptcltk, guiWidgetsToolkit.addhandlerchanged, gVariabletcltk, guiWidgetsToolkit.addhandlerchanged, (gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented), 7
- .addhandlerchanged, gCheckboxtcltk, guiWidgetsToolkit.addhandlerchanged, gWidgettcltk, guiWidgetsToolkit.addhandlerchanged, (gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented), 7
- .addhandlerchanged, gDroplisstcltk, guiWidgetsToolkit.addhandlerchanged, gWidgettcltk, guiWidgetsToolkit.addhandlerchanged, (gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented), 7
- .addhandlerchanged, gEdittcltk, guiWidgetsToolkit.addhandlerchanged, gButtontcltk, guiWidgetsToolkit.addhandlerchanged, (gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented), 7
- .addhandlerchanged, gExpandgrouptcltk, guiWidgetsToolkit.addhandlerchanged, gCheckboxgrouptcltk, guiWidgetsToolkit.addhandlerchanged, (gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented), 7
- .addhandlerchanged, gGridtcltk, guiWidgetsToolkit.addhandlerchanged, gCheckboxtcltk, guiWidgetsToolkit.addhandlerchanged, (gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented), 7
- .addhandlerchanged, gImagetcltk, guiWidgetsToolkit.addhandlerchanged, gDroplisstcltk, guiWidgetsToolkit.addhandlerchanged, (gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented), 7
- .addhandlerchanged, gLabeltcltk, guiWidgetsToolkit.addhandlerchanged, gGraphicstcltk, guiWidgetsToolkit.addhandlerchanged, (gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented), 7
- .addhandlerchanged, gNotebooktcltk, guiWidgetsToolkit.addhandlerchanged, gTexttcltk, guiWidgetsToolkit.addhandlerchanged, (gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented), 7

- 7
- .addhandlerclicked, gImageGtk, guiWidgetsToolkit::Image methods
(gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented),
7 7
- .addhandlerclicked, gLabelGtk, guiWidgetsToolkit::TextComponentGtk, guiWidgetsToolkit::TextComponentGtk methods
(gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented),
7 7
- .addhandlerclicked, gRadioGtk, guiWidgetsToolkit::TextComponentGtk, guiWidgetsToolkit::TextComponentGtk methods
(gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented),
7 7
- .addhandlerclicked, gSpinbuttonGtk, guiWidgetsToolkit::TextComponentGtk, guiWidgetsToolkit::TextComponentGtk methods
(gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented),
7 7
- .addhandlerclicked, gTableWithFilterGtk, guiWidgetsToolkit::TableGtk, guiWidgetsToolkit::TableGtk methods
(gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented),
7 7
- .addhandlerclicked, gTableGtk, guiWidgetsToolkit::TextComponentGtk, guiWidgetsToolkit::TextComponentGtk methods
(gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented),
7 7
- .addhandlerclicked, gWidgetGtk, guiWidgetsToolkit::TextComponentGtk, guiWidgetsToolkit::TextComponentGtk methods
(gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented),
7 7
- .addhandlerclicked-methods .addhandlerfocus-methods
(gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented),
7 7
- .addhandlerdestroy, gWidgetGtk, guiWidgetsToolkit::TextComponentGtk, guiWidgetsToolkit::TextComponentGtk methods
(gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented),
7 7
- .addhandlerdestroy, gWindowGtk, guiWidgetsToolkit::TextComponentGtk, guiWidgetsToolkit::TextComponentGtk methods
(gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented),
7 7
- .addhandlerdestroy-methods .addhandlerkeystroke, gEditGtk, guiWidgetsToolkit::TextComponentGtk, guiWidgetsToolkit::TextComponentGtk methods
(gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented),
7 7
- .addhandlerdoubleclick, gGridGtk, guiWidgetsToolkit::TextComponentGtk, guiWidgetsToolkit::TextComponentGtk methods
(gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented),
7 7
- .addhandlerdoubleclick, gTableWithFilterGtk, guiWidgetsToolkit::TableGtk, guiWidgetsToolkit::TableGtk methods
(gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented),
7 7
- .addhandlerdoubleclick, gTableGtk, guiWidgetsToolkit::TextComponentGtk, guiWidgetsToolkit::TextComponentGtk methods
(gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented),
7 7
- .addhandlerdoubleclick, gTreeGtk, guiWidgetsToolkit::TextComponentGtk, guiWidgetsToolkit::TextComponentGtk methods
(gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented),
7 7
- .addhandlerdoubleclick, gWidgetGtk, guiWidgetsToolkit::TextComponentGtk, guiWidgetsToolkit::TextComponentGtk methods
(gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented),
7 7

7	7
<code>.enabled<-methods</code> (<i>gWidgetstcltk-undocumented</i>), 7	<code>.gbasicdialog-methods</code> (<i>gWidgetstcltk-undocumented</i>), 7
<code>.focus, gWidgettcltk, guiWidgetsToolkittcltk-method</code> (<i>gWidgetstcltk-undocumented</i>), 7	<code>.gbasicdialognoparent, guiWidgetsToolkittcltk-method</code> (<i>gWidgetstcltk-undocumented</i>), 7
<code>.focus-methods</code> (<i>gWidgetstcltk-undocumented</i>), 7	<code>.gbasicdialognoparent-methods</code> (<i>gWidgetstcltk-undocumented</i>), 7
<code>.focus<-, GtkWindow, guiWidgetsToolkittcltk-method</code> (<i>gWidgetstcltk-undocumented</i>), 7	<code>.gbutton, guiWidgetsToolkittcltk, ANY, ANY, ANY, ANY-</code> (<i>gWidgetstcltk-undocumented</i>), 7
<code>.focus<-, gWidgettcltk, guiWidgetsToolkittcltk-method</code> (<i>gWidgetstcltk-undocumented</i>), 7	<code>.gbuttonmethod, guiWidgetsToolkittcltk, ANY, ANY, ANY, gAct</code> (<i>gWidgetstcltk-undocumented</i>), 7
<code>.focus<-, tcltkObject, guiWidgetsToolkittcltk-method</code> (<i>gWidgetstcltk-undocumented</i>), 7	<code>.gbuttonmethod, guiWidgetsToolkittcltk, ANY, ANY, ANY, guiC</code> (<i>gWidgetstcltk-undocumented</i>), 7
<code>.focus<-methods</code> (<i>gWidgetstcltk-undocumented</i>), 7	<code>.gbutton, guiWidgetsToolkittcltk-method</code> (<i>gWidgetstcltk-undocumented</i>), 7
<code>.font, GtkWindow, guiWidgetsToolkittcltk-method</code> (<i>gWidgetstcltk-undocumented</i>), 7	<code>.gbutton-methods</code> (<i>gWidgetstcltk-undocumented</i>), 7
<code>.font-methods</code> (<i>gWidgetstcltk-undocumented</i>), 7	<code>.gcalendar, guiWidgetsToolkittcltk-method</code> (<i>gWidgetstcltk-undocumented</i>), 7
<code>.font<-, gExpandgrouptcltk, guiWidgetsToolkittcltk-method</code> (<i>gWidgetstcltk-undocumented</i>), 7	<code>.gcalendar-methods</code> (<i>gWidgetstcltk-undocumented</i>), 7
<code>.font<-, gFrametcltk, guiWidgetsToolkittcltk-method</code> (<i>gWidgetstcltk-undocumented</i>), 7	<code>.gcalendar, guiWidgetsToolkittcltk-method</code> (<i>gWidgetstcltk-undocumented</i>), 7
<code>.font<-, gTexttcltk, guiWidgetsToolkittcltk-method</code> (<i>gWidgetstcltk-undocumented</i>), 7	<code>.gcalendar-methods</code> (<i>gWidgetstcltk-undocumented</i>), 7
<code>.font<-, gWidgettcltk, guiWidgetsToolkittcltk-method</code> (<i>gWidgetstcltk-undocumented</i>), 7	<code>.gcalendar, guiWidgetsToolkittcltk-method</code> (<i>gWidgetstcltk-undocumented</i>), 7
<code>.font<-, tcltkObject, guiWidgetsToolkittcltk-method</code> (<i>gWidgetstcltk-undocumented</i>), 7	<code>.gcalendar-methods</code> (<i>gWidgetstcltk-undocumented</i>), 7
<code>.font<-methods</code> (<i>gWidgetstcltk-undocumented</i>), 7	<code>.gcalendar, guiWidgetsToolkittcltk-method</code> (<i>gWidgetstcltk-undocumented</i>), 7
<code>.gbasicdialog, guiWidgetsToolkittcltk-method</code> (<i>gWidgetstcltk-undocumented</i>), 7	<code>.gcommandline-methods</code> (<i>gWidgetstcltk-undocumented</i>), 7

- [7](#)
- [.ghelp-methods](#)
([gWidgetstcltk-undocumented](#)),
[7](#)
- [.ghelpbrowser, guiWidgetsToolkittcltk-method](#)
([gWidgetstcltk-undocumented](#)),
[7](#)
- [.ghelpbrowser-methods](#)
([gWidgetstcltk-undocumented](#)),
[7](#)
- [.gimage, guiWidgetsToolkittcltk-method](#)
([gWidgetstcltk-undocumented](#)),
[7](#)
- [.gimage-methods](#)
([gWidgetstcltk-undocumented](#)),
[7](#)
- [.ginput, guiWidgetsToolkittcltk-method](#)
([gWidgetstcltk-undocumented](#)),
[7](#)
- [.ginput-methods](#)
([gWidgetstcltk-undocumented](#)),
[7](#)
- [.glabel, guiWidgetsToolkittcltk-method](#)
([gWidgetstcltk-undocumented](#)),
[7](#)
- [.glabel-methods](#)
([gWidgetstcltk-undocumented](#)),
[7](#)
- [.glayout, guiWidgetsToolkittcltk-method](#)
([gWidgetstcltk-undocumented](#)),
[7](#)
- [.glayout-methods](#)
([gWidgetstcltk-undocumented](#)),
[7](#)
- [.gmenu, guiWidgetsToolkittcltk-method](#)
([gWidgetstcltk-undocumented](#)),
[7](#)
- [.gmenu-methods](#)
([gWidgetstcltk-undocumented](#)),
[7](#)
- [.gmessage, guiWidgetsToolkittcltk-method](#)
([gWidgetstcltk-undocumented](#)),
[7](#)
- [.gmessage-methods](#)
([gWidgetstcltk-undocumented](#)),
[7](#)
- [.gnotebook, guiWidgetsToolkittcltk-method](#)
([gWidgetstcltk-undocumented](#)),
[7](#)
- [7](#)
- [.gnotebook-methods](#)
([gWidgetstcltk-undocumented](#)),
[7](#)
- [.gpanedgroup, guiWidgetsToolkittcltk-method](#)
([gWidgetstcltk-undocumented](#)),
[7](#)
- [.gpanedgroup-methods](#)
([gWidgetstcltk-undocumented](#)),
[7](#)
- [.gradio, guiWidgetsToolkittcltk-method](#)
([gWidgetstcltk-undocumented](#)),
[7](#)
- [.gradio-methods](#)
([gWidgetstcltk-undocumented](#)),
[7](#)
- [.gseparator, guiWidgetsToolkittcltk-method](#)
([gWidgetstcltk-undocumented](#)),
[7](#)
- [.gseparator-methods](#)
([gWidgetstcltk-undocumented](#)),
[7](#)
- [.gslider, guiWidgetsToolkittcltk-method](#)
([gWidgetstcltk-undocumented](#)),
[7](#)
- [.gslider-methods](#)
([gWidgetstcltk-undocumented](#)),
[7](#)
- [.gspinbutton, guiWidgetsToolkittcltk-method](#)
([gWidgetstcltk-undocumented](#)),
[7](#)
- [.gspinbutton-methods](#)
([gWidgetstcltk-undocumented](#)),
[7](#)
- [.gstatusbar, guiWidgetsToolkittcltk-method](#)
([gWidgetstcltk-undocumented](#)),
[7](#)
- [.gstatusbar-methods](#)
([gWidgetstcltk-undocumented](#)),
[7](#)
- [.gtable, guiWidgetsToolkittcltk-method](#)
([gWidgetstcltk-undocumented](#)),
[7](#)
- [.gtable-methods](#)
([gWidgetstcltk-undocumented](#)),
[7](#)
- [.gtext, guiWidgetsToolkittcltk-method](#)
([gWidgetstcltk-undocumented](#)),
[7](#)

- 7
- .gtext-methods
(gWidgetstcltk-undocumented),
7
- .gtoolbar, guiWidgetsToolkittcltk-method
(gWidgetstcltk-undocumented),
7
- .gtoolbar-methods
(gWidgetstcltk-undocumented),
7
- .gtree, guiWidgetsToolkittcltk-method
(gWidgetstcltk-undocumented),
7
- .gtree-methods
(gWidgetstcltk-undocumented),
7
- .gvarbrowser, guiWidgetsToolkittcltk-method
(gWidgetstcltk-undocumented),
7
- .gvarbrowser-methods
(gWidgetstcltk-undocumented),
7
- .gwindow, guiWidgetsToolkittcltk-method
(gWidgetstcltk-undocumented),
7
- .gwindow-methods
(gWidgetstcltk-undocumented),
7
- .id, gWidgettcltk, guiWidgetsToolkittcltk-method
(gWidgetstcltk-undocumented),
7
- .id, tcltkObject, guiWidgetsToolkittcltk-method
(gWidgetstcltk-undocumented),
7
- .id-methods
(gWidgetstcltk-undocumented),
7
- .id<-, gWidgettcltk, guiWidgetsToolkittcltk-method
(gWidgetstcltk-undocumented),
7
- .id<-methods
(gWidgetstcltk-undocumented),
7
- .insert, gTexttcltk, guiWidgetsToolkittcltk-method
(gWidgetstcltk-undocumented),
7
- .insert-methods
(gWidgetstcltk-undocumented),
7
- .leftBracket, GtkTreeView, guiWidgetsToolkittcltk-method
(gWidgetstcltk-undocumented),
7
- .leftBracket, gCheckboxgrouptcltk, guiWidgetsToolkittcltk-method
(gWidgetstcltk-undocumented),
7
- .leftBracket, gCheckboxtcltk, guiWidgetsToolkittcltk-method
(gWidgetstcltk-undocumented),
7
- .leftBracket, gCommandlinetcltk, guiWidgetsToolkittcltk-method
(gWidgetstcltk-undocumented),
7
- .leftBracket, gDroplittcltk, guiWidgetsToolkittcltk-method
(gWidgetstcltk-undocumented),
7
- .leftBracket, gEdittcltk, guiWidgetsToolkittcltk-method
(gWidgetstcltk-undocumented),
7
- .leftBracket, gGridtcltk, guiWidgetsToolkittcltk-method
(gWidgetstcltk-undocumented),
7
- .leftBracket, gMenutcltk, guiWidgetsToolkittcltk-method
(gWidgetstcltk-undocumented),
7
- .leftBracket, gNotebooktcltk, guiWidgetsToolkittcltk-method
(gWidgetstcltk-undocumented),
7
- .leftBracket, gRadiotcltk, guiWidgetsToolkittcltk-method
(gWidgetstcltk-undocumented),
7
- .leftBracket, gTableWithFiltertcltk, guiWidgetsToolkittcltk-method
(gWidgetstcltk-undocumented),
7
- .leftBracket, gTabletcltk, guiWidgetsToolkittcltk-method
(gWidgetstcltk-undocumented),
7
- .leftBracket, gToolbartcltk, guiWidgetsToolkittcltk-method
(gWidgetstcltk-undocumented),
7
- .leftBracket, gTreetcltk, guiWidgetsToolkittcltk-method
(gWidgetstcltk-undocumented),
7
- .leftBracket, gVartcltk, guiWidgetsToolkittcltk-method
(gWidgetstcltk-undocumented),
7
- .leftBracket, tcltkDataFrame, guiWidgetsToolkittcltk-method
(gWidgetstcltk-undocumented),
7

[7](#)
 .names-methods
 (*gWidgetstcltk-undocumented*),
 [7](#)
 .names<-, gExpandgrouptcltk, guiWidgetsToolkittcltk-method
 (*gWidgetstcltk-undocumented*),
 [7](#)
 .names<-, gFrametcltk, guiWidgetsToolkittcltk-method
 (*gWidgetstcltk-undocumented*),
 [7](#)
 .names<-, gGridtcltk, guiWidgetsToolkittcltk-method
 (*gWidgetstcltk-undocumented*),
 [7](#)
 .names<-, gNotebooktcltk, guiWidgetsToolkittcltk-method
 (*gWidgetstcltk-undocumented*),
 [7](#)
 .names<-, gTableWithFiltertcltk, ANY-method
 (*gWidgetstcltk-undocumented*),
 [7](#)
 .names<-, gTabletcltk, ANY-method
 (*gWidgetstcltk-undocumented*),
 [7](#)
 .names<-methods
 (*gWidgetstcltk-undocumented*),
 [7](#)
 .removehandler, gCheckboxgrouptcltk, guiWidgetsToolkittcltk-method
 (*gWidgetstcltk-undocumented*),
 [7](#)
 .removehandler, gWidgettcltk, guiWidgetsToolkittcltk-method
 (*gWidgetstcltk-undocumented*),
 [7](#)
 .removehandler, tcltkObject, guiWidgetsToolkittcltk-method
 (*gWidgetstcltk-undocumented*),
 [7](#)
 .removehandler-methods
 (*gWidgetstcltk-undocumented*),
 [7](#)
 .size, gWidgettcltk, guiWidgetsToolkittcltk-method
 (*gWidgetstcltk-undocumented*),
 [7](#)
 .size, gWindowtcltk, guiWidgetsToolkittcltk-method
 (*gWidgetstcltk-undocumented*),
 [7](#)
 .size-methods
 (*gWidgetstcltk-undocumented*),
 [7](#)
 .size<-, gButtontcltk, guiWidgetsToolkittcltk-method
 (*gWidgetstcltk-undocumented*),
 [7](#)

[7](#)
 .size<-, gComponenttcltk, guiWidgetsToolkittcltk-method
 (*gWidgetstcltk-undocumented*),
 [7](#)
 .size<-, gContaintcltk, guiWidgetsToolkittcltk-method
 (*gWidgetstcltk-undocumented*),
 [7](#)
 .size<-, gFlattcltk, guiWidgetsToolkittcltk-method
 (*gWidgetstcltk-undocumented*),
 [7](#)
 .size<-, gGridtcltk, guiWidgetsToolkittcltk-method
 (*gWidgetstcltk-undocumented*),
 [7](#)
 .size<-, gImagecltk, guiWidgetsToolkittcltk-method
 (*gWidgetstcltk-undocumented*),
 [7](#)
 .size<-, gNotebooktcltk, guiWidgetsToolkittcltk-method
 (*gWidgetstcltk-undocumented*),
 [7](#)
 .size<-, gSeparatortcltk, guiWidgetsToolkittcltk-method
 (*gWidgetstcltk-undocumented*),
 [7](#)
 .size<-, gSpinbuttontcltk, guiWidgetsToolkittcltk-method
 (*gWidgetstcltk-undocumented*),
 [7](#)
 .size<-, gTableWithFiltertcltk, guiWidgetsToolkittcltk-method
 (*gWidgetstcltk-undocumented*),
 [7](#)
 .size<-, gTabletcltk, guiWidgetsToolkittcltk-method
 (*gWidgetstcltk-undocumented*),
 [7](#)
 .size<-, gTreecltk, guiWidgetsToolkittcltk-method
 (*gWidgetstcltk-undocumented*),
 [7](#)
 .size<-, gVarbrowsertcltk, guiWidgetsToolkittcltk-method
 (*gWidgetstcltk-undocumented*),
 [7](#)
 .size<-, gWidgettcltk, guiWidgetsToolkittcltk-method
 (*gWidgetstcltk-undocumented*),
 [7](#)
 .size<-, gWindowtcltk, guiWidgetsToolkittcltk-method
 (*gWidgetstcltk-undocumented*),
 [7](#)
 .size<-methods
 (*gWidgetstcltk-undocumented*),
 [7](#)
 .size<-methods
 (*gWidgetstcltk-undocumented*),
 [7](#)
 .size<-methods
 (*gWidgetstcltk-undocumented*),
 [7](#)
 .size<-methods
 (*gWidgetstcltk-undocumented*),
 [7](#)

- 7
- .svalue, gHelpertcltk, ANY, ANY, guiWidgetsToolkittcltk-method, gSlidertcltk, ANY, ANY, guiWidgetsToolkittcltk-method
(gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented),
7 7
- .svalue, gImagetcltk, ANY, ANY, guiWidgetsToolkittcltk-method, gSpinbuttoncltk, ANY, ANY, guiWidgetsToolkittcltk-method
(gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented),
7 7
- .svalue, gImagetcltk, guiWidgetsToolkittcltk-method, gSpinbuttoncltk, guiWidgetsToolkittcltk-method
(gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented),
7 7
- .svalue, gLabeltcltk, ANY, ANY, guiWidgetsToolkittcltk-method, gStackedwidgecltk, ANY, ANY, guiWidgetsToolkittcltk-method
(gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented),
7 7
- .svalue, gLabeltcltk, guiWidgetsToolkittcltk-method, gStatusbartcltk, guiWidgetsToolkittcltk-method
(gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented),
7 7
- .svalue, gLmertcltk, ANY, ANY, guiWidgetsToolkittcltk-method, gTabWidgetFilttertcltk, ANY, ANY, guiWidgetsToolkittcltk-method
(gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented),
7 7
- .svalue, gMenutcltk, ANY, ANY, guiWidgetsToolkittcltk-method, gTabWidgetFilttertcltk, guiWidgetsToolkittcltk-method
(gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented),
7 7
- .svalue, gMenutcltk, guiWidgetsToolkittcltk-method, gTabletcltk, ANY, ANY, guiWidgetsToolkittcltk-method
(gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented),
7 7
- .svalue, gModeltcltk, ANY, ANY, guiWidgetsToolkittcltk-method, gTabletcltk, guiWidgetsToolkittcltk-method
(gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented),
7 7
- .svalue, gNotebooktcltk, ANY, ANY, guiWidgetsToolkittcltk-method, gTextcltk, ANY, ANY, guiWidgetsToolkittcltk-method
(gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented),
7 7
- .svalue, gNotebooktcltk, guiWidgetsToolkittcltk-method, gTextcltk, guiWidgetsToolkittcltk-method
(gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented),
7 7
- .svalue, gPanedgrouptcltk, ANY, ANY, guiWidgetsToolkittcltk-method, gToolbaltcltk, ANY, ANY, guiWidgetsToolkittcltk-method
(gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented),
7 7
- .svalue, gPanedgrouptcltk, guiWidgetsToolkittcltk-method, gToolbaltcltk, guiWidgetsToolkittcltk-method
(gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented),
7 7
- .svalue, gRadiotcltk, ANY, ANY, guiWidgetsToolkittcltk-method, gTitlebarcltk, ANY, ANY, guiWidgetsToolkittcltk-method
(gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented),
7 7
- .svalue, gRadiotcltk, guiWidgetsToolkittcltk-method, gTitlebarcltk, guiWidgetsToolkittcltk-method
(gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented),
7 7
- .svalue, gSlidertcltk, ANY, ANY, guiWidgetsToolkittcltk-method, gTitlebarcltk, ANY, ANY, guiWidgetsToolkittcltk-method
(gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented),
7 7

- 7
- .svalue, gUnivariatecltk, ANY, ANY, guiWidgetsToolkittcltk, ANY, ANY, method, guiWidgetsToolkittcltk, ANY, ANY, method, (gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented), 7
- .svalue, gVarbrowsertcltk, ANY, ANY, guiWidgetsToolkittcltk, ANY, ANY, method, guiWidgetsToolkittcltk, ANY, ANY, method, (gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented), 7
- .svalue, gVarbrowsertcltk, guiWidgetsToolkittcltk, gExpandedgroupcltk, guiWidgetsToolkittcltk, ANY, ANY, method, (gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented), 7
- .svalue, gWindowtcltk, ANY, ANY, guiWidgetsToolkittcltk, ANY, ANY, method, guiWidgetsToolkittcltk, ANY, ANY, method, (gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented), 7
- .svalue, gWindowtcltk, guiWidgetsToolkittcltk, gFilebrowsetcltk, guiWidgetsToolkittcltk, ANY, ANY, method, (gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented), 7
- .svalue-methods .svalue<-, gFramecltk, guiWidgetsToolkittcltk, ANY, ANY, method, (gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented), 7
- .svalue<-, GtkEntry, guiWidgetsToolkittcltk, ANY, ANY, method, guiWidgetsToolkittcltk, ANY, ANY, method, (gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented), 7
- .svalue<-, gActiontcltk, guiWidgetsToolkittcltk, ANY, ANY, method, guiWidgetsToolkittcltk, ANY, ANY, method, (gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented), 7
- .svalue<-, gAddargtcltk, guiWidgetsToolkittcltk, ANY, ANY, method, guiWidgetsToolkittcltk, ANY, ANY, method, (gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented), 7
- .svalue<-, gAddargtcltk, guiWidgetsToolkittcltk, gMethodcltk, guiWidgetsToolkittcltk, ANY, ANY, method, (gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented), 7
- .svalue<-, gBivariatecltk, guiWidgetsToolkittcltk, ANY, ANY, method, guiWidgetsToolkittcltk, ANY, ANY, method, (gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented), 7
- .svalue<-, gBivariatecltk, guiWidgetsToolkittcltk, gMethodcltk, guiWidgetsToolkittcltk, ANY, ANY, method, (gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented), 7
- .svalue<-, gButtontcltk, guiWidgetsToolkittcltk, ANY, ANY, method, guiWidgetsToolkittcltk, ANY, ANY, method, (gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented), 7
- .svalue<-, gCheckboxgroupcltk, guiWidgetsToolkittcltk, ANY, ANY, method, guiWidgetsToolkittcltk, ANY, ANY, method, (gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented), 7
- .svalue<-, gCheckboxtcltk, guiWidgetsToolkittcltk, ANY, ANY, method, guiWidgetsToolkittcltk, ANY, ANY, method, (gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented), 7
- .svalue<-, gCommandlinetcltk, guiWidgetsToolkittcltk, ANY, ANY, method, guiWidgetsToolkittcltk, ANY, ANY, method, (gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented), 7

7

.svalue<- , gNotebookctk, guiWidgetsToolkit, gNotebookctk, guiWidgetsToolkitctk-method
 (gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented),
 7 7

.svalue<- , gNotebookctk, guiWidgetsToolkit, gWindowctk, guiWidgetsToolkitctk, AN
 (gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented),
 7 7

.svalue<- , gPanedgroupctk, guiWidgetsToolkit, gWindowctk, guiWidgetsToolkitctk-me
 (gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented),
 7 7

.svalue<- , gRadiotctk, guiWidgetsToolkit, gAny, ANY-method
 (gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented),
 7 7

.svalue<- , gRadiotctk, guiWidgetsToolkit, gWindowctk, guiWidgetsToolkitctk-method
 (gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented),
 7 7

.svalue<- , gSlidertctk, guiWidgetsToolkit, gAny, ANY-method
 (gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented),
 7 7

.svalue<- , gSlidertctk, guiWidgetsToolkit, gObject, guiWidgetsToolkitctk-method
 (gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented),
 7 7

.svalue<- , gSpinbuttonctk, guiWidgetsToolkit, gAny, ANY-method
 (gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented),
 7 7

.svalue<- , gSpinbuttonctk, guiWidgetsToolkit, gWindowctk, guiWidgetsToolkitctk-metho
 (gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented),
 7 7

.svalue<- , gStatusbartctk, guiWidgetsToolkit, gAny, ANY-method
 (gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented),
 7 7

.svalue<- , gStatusbartctk, guiWidgetsToolkit, gObject, guiWidgetsToolkitctk-method
 (gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented),
 7 7

.svalue<- , gTableWithFilterctk, guiWidgetsToolkit, gAny, ANY-method
 (gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented),
 7 7

.svalue<- , gTabletctk, guiWidgetsToolkit, gAny, ANY-method
 (gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented),
 7 7

.svalue<- , gTexttctk, guiWidgetsToolkit, gAny, ANY-method
 (gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented),
 7 7

.svalue<- , gTexttctk, guiWidgetsToolkit, gObject, guiWidgetsToolkitctk-m
 (gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented),
 7 7

.svalue<- , gToolbartctk, guiWidgetsToolkit, gAny, ANY-method
 (gWidgetstcltk-undocumented), (gWidgetstcltk-undocumented),
 7 7

- 7
- [, gTableWithFiltertcltk-method
(gWidgetstcltk-undocumented),
7
- [, gTabletcltk-method
(gWidgetstcltk-undocumented),
7
- [, gToolbartcltk-method
(gWidgetstcltk-undocumented),
7
- [, gTreetcltk-method
(gWidgetstcltk-undocumented),
7
- [, gVarbrowsertcltk-method
(gWidgetstcltk-undocumented),
7
- [, gWidgettcltk-method
(gWidgetstcltk-undocumented),
7
- [, tcltkDataFrame-method
(gWidgetstcltk-undocumented),
7
- [-methods
(gWidgetstcltk-undocumented),
7
- [<-, GtkTreeView-method
(gWidgetstcltk-undocumented),
7
- [<-, gCheckboxgrouptcltk-method
(gWidgetstcltk-undocumented),
7
- [<-, gCheckboxtcltk-method
(gWidgetstcltk-undocumented),
7
- [<-, gDroplittcltk-method
(gWidgetstcltk-undocumented),
7
- [<-, gEdittcltk-method
(gWidgetstcltk-undocumented),
7
- [<-, gGridtcltk-method
(gWidgetstcltk-undocumented),
7
- [<-, gLayouttcltk-method
(gWidgetstcltk-undocumented),
7
- [<-, gMenutcltk-method
(gWidgetstcltk-undocumented),
7
- [<-, gNotebooktcltk-method
(gWidgetstcltk-undocumented),
7
- [<-, gRadiotcltk-method
(gWidgetstcltk-undocumented),
7
- [<-, gSlidertcltk-method
(gWidgetstcltk-undocumented),
7
- [<-, gSpinbuttonontcltk-method
(gWidgetstcltk-undocumented),
7
- [<-, gTableWithFiltertcltk-method
(gWidgetstcltk-undocumented),
7
- [<-, gTabletcltk-method
(gWidgetstcltk-undocumented),
7
- [<-, gToolbartcltk-method
(gWidgetstcltk-undocumented),
7
- [<-, gWidgettcltk-method
(gWidgetstcltk-undocumented),
7
- add, guiWidget-method
(gWidgetstcltk-undocumented),
7
- add, gWidgettcltk-method
(gWidgetstcltk-undocumented),
7
- add-methods
(gWidgetstcltk-undocumented),
7
- add3rdmousepopupmenu, guiWidget-method
(gWidgetstcltk-undocumented),
7
- add3rdmousepopupmenu, gWidgettcltk-method
(gWidgetstcltk-undocumented),
7
- add3rdmousepopupmenu, tcltkObject-method
(gWidgetstcltk-undocumented),
7
- add3rdmousepopupmenu-methods
(gWidgetstcltk-undocumented),
7
- adddropmotion, guiWidget-method
(gWidgetstcltk-undocumented),
7

- 7
- adddropmotion, gWidgettcltk-method
(gWidgetstcltk-undocumented),
7
- adddropmotion, tcltkObject-method
(gWidgetstcltk-undocumented),
7
- adddropmotion-methods
(gWidgetstcltk-undocumented),
7
- adddropsource, guiWidget-method
(gWidgetstcltk-undocumented),
7
- adddropsource, gWidgettcltk-method
(gWidgetstcltk-undocumented),
7
- adddropsource, tcltkObject-method
(gWidgetstcltk-undocumented),
7
- adddropsource-methods
(gWidgetstcltk-undocumented),
7
- addroptarget, gImagecltk, guiWidgetstcltk-method
(gWidgetstcltk-undocumented),
7
- addroptarget, guiWidget-method
(gWidgetstcltk-undocumented),
7
- addroptarget, gWidgettcltk-method
(gWidgetstcltk-undocumented),
7
- addroptarget, tcltkObject-method
(gWidgetstcltk-undocumented),
7
- addroptarget-methods
(gWidgetstcltk-undocumented),
7
- addhandler, guiWidget-method
(gWidgetstcltk-undocumented),
7
- addhandler, gWidgettcltk-method
(gWidgetstcltk-undocumented),
7
- addhandler, tcltkObject-method
(gWidgetstcltk-undocumented),
7
- addhandler-methods
(gWidgetstcltk-undocumented),
7
- addhandlerblur, guiWidget-method
(gWidgetstcltk-undocumented),
7
- addhandlerblur, gWidgettcltk-method
(gWidgetstcltk-undocumented),
7
- addhandlerblur, tcltkObject-method
(gWidgetstcltk-undocumented),
7
- addhandlerblur-methods
(gWidgetstcltk-undocumented),
7
- addhandlerchanged, ANY-method
(gWidgetstcltk-undocumented),
7
- addhandlerchanged, gSubsetbytcltk-method
(gWidgetstcltk-undocumented),
7
- addhandlerchanged, guiWidget-method
(gWidgetstcltk-undocumented),
7
- addhandlerchanged, tcltkObject-method
(gWidgetstcltk-undocumented),
7
- addhandlerchanged, gWidgettcltk-method
(gWidgetstcltk-undocumented),
7
- addhandlerchanged-methods
(gWidgetstcltk-undocumented),
7
- addhandlerclicked, guiWidget-method
(gWidgetstcltk-undocumented),
7
- addhandlerclicked, gWidgettcltk-method
(gWidgetstcltk-undocumented),
7
- addhandlerclicked, tcltkObject-method
(gWidgetstcltk-undocumented),
7
- addhandlerclicked-methods
(gWidgetstcltk-undocumented),
7
- addhandlerdestroy, guiWidget-method
(gWidgetstcltk-undocumented),
7
- addhandlerdestroy, gWidgettcltk-method
(gWidgetstcltk-undocumented),
7

- [7](#)
 addhandlerdestroy, tcltkObject-method
 (*gWidgetstcltk-undocumented*),
[7](#)
- addhandlerdestroy-methods
 (*gWidgetstcltk-undocumented*),
[7](#)
- addhandlerdoubleclick, guiWidget-method
 (*gWidgetstcltk-undocumented*),
[7](#)
- addhandlerdoubleclick, gWidgettcltk-method
 (*gWidgetstcltk-undocumented*),
[7](#)
- addhandlerdoubleclick, tcltkObject-method
 (*gWidgetstcltk-undocumented*),
[7](#)
- addhandlerdoubleclick-methods
 (*gWidgetstcltk-undocumented*),
[7](#)
- addhandlerexpose, guiWidget-method
 (*gWidgetstcltk-undocumented*),
[7](#)
- addhandlerexpose, gWidgettcltk-method
 (*gWidgetstcltk-undocumented*),
[7](#)
- addhandlerexpose, tcltkObject-method
 (*gWidgetstcltk-undocumented*),
[7](#)
- addhandlerexpose-methods
 (*gWidgetstcltk-undocumented*),
[7](#)
- addhandlerfocus, guiWidget-method
 (*gWidgetstcltk-undocumented*),
[7](#)
- addhandlerfocus, gWidgettcltk-method
 (*gWidgetstcltk-undocumented*),
[7](#)
- addhandlerfocus, tcltkObject-method
 (*gWidgetstcltk-undocumented*),
[7](#)
- addhandlerfocus-methods
 (*gWidgetstcltk-undocumented*),
[7](#)
- addhandleridle, guiWidget-method
 (*gWidgetstcltk-undocumented*),
[7](#)
- addhandleridle, gWidgettcltk-method
 (*gWidgetstcltk-undocumented*),
[7](#)
- [7](#)
 addhandleridle, tcltkObject-method
 (*gWidgetstcltk-undocumented*),
[7](#)
- addhandleridle-methods
 (*gWidgetstcltk-undocumented*),
[7](#)
- addhandlerkeystroke, guiWidget-method
 (*gWidgetstcltk-undocumented*),
[7](#)
- addhandlerkeystroke, gWidgettcltk-method
 (*gWidgetstcltk-undocumented*),
[7](#)
- addhandlerkeystroke, tcltkObject-method
 (*gWidgetstcltk-undocumented*),
[7](#)
- addhandlerkeystroke-methods
 (*gWidgetstcltk-undocumented*),
[7](#)
- addhandlermousemotion, gWidgettcltk-method
 (*gWidgetstcltk-undocumented*),
[7](#)
- addhandlermousemotion, tcltkObject-method
 (*gWidgetstcltk-undocumented*),
[7](#)
- addhandlermousemotion-methods
 (*gWidgetstcltk-undocumented*),
[7](#)
- addhandlerrightclick, guiWidget-method
 (*gWidgetstcltk-undocumented*),
[7](#)
- addhandlerrightclick, gWidgettcltk-method
 (*gWidgetstcltk-undocumented*),
[7](#)
- addhandlerrightclick, tcltkObject-method
 (*gWidgetstcltk-undocumented*),
[7](#)
- addhandlerrightclick-methods
 (*gWidgetstcltk-undocumented*),
[7](#)
- addhandlerunrealize, guiWidget-method
 (*gWidgetstcltk-undocumented*),
[7](#)
- addhandlerunrealize, gWidgettcltk-method
 (*gWidgetstcltk-undocumented*),
[7](#)
- addhandlerunrealize, tcltkObject-method
 (*gWidgetstcltk-undocumented*),
[7](#)

- 7
- addhandlerunrealize-methods
(*gWidgetstcltk-undocumented*),
7
- addpopupmenu, guiWidget-method
(*gWidgetstcltk-undocumented*),
7
- addpopupmenu, gWidgettcltk-method
(*gWidgetstcltk-undocumented*),
7
- addpopupmenu, tcltkObject-method
(*gWidgetstcltk-undocumented*),
7
- addpopupmenu-methods
(*gWidgetstcltk-undocumented*),
7
- addSpace, guiWidget-method
(*gWidgetstcltk-undocumented*),
7
- addSpace, gWidgettcltk-method
(*gWidgetstcltk-undocumented*),
7
- addSpace-methods
(*gWidgetstcltk-undocumented*),
7
- addSpring, guiWidget-method
(*gWidgetstcltk-undocumented*),
7
- addSpring, gWidgettcltk-method
(*gWidgetstcltk-undocumented*),
7
- addSpring-methods
(*gWidgetstcltk-undocumented*),
7
- blockhandler, GtkTreeViewColumn-method
(*gWidgetstcltk-undocumented*),
7
- blockhandler, guiWidget-method
(*gWidgetstcltk-undocumented*),
7
- blockhandler, gWidgettcltk-method
(*gWidgetstcltk-undocumented*),
7
- blockhandler, tcltkObject-method
(*gWidgetstcltk-undocumented*),
7
- blockhandler-methods
(*gWidgetstcltk-undocumented*),
7
- 7
- defaultWidget, guiWidget-method
(*gWidgetstcltk-undocumented*),
7
- defaultWidget, gWidgettcltk-method
(*gWidgetstcltk-undocumented*),
7
- defaultWidget-methods
(*gWidgetstcltk-undocumented*),
7
- defaultWidget<-, guiWidget-method
(*gWidgetstcltk-undocumented*),
7
- defaultWidget<-, gWidgettcltk-method
(*gWidgetstcltk-undocumented*),
7
- defaultWidget<-, tcltkObject-method
(*gWidgetstcltk-undocumented*),
7
- defaultWidget<-methods
(*gWidgetstcltk-undocumented*),
7
- delete, guiWidget-method
(*gWidgetstcltk-undocumented*),
7
- delete, gWidgettcltk-method
(*gWidgetstcltk-undocumented*),
7
- delete-methods
(*gWidgetstcltk-undocumented*),
7
- dim, ANY-method
(*gWidgetstcltk-undocumented*),
7
- dim, guiWidget-method
(*gWidgetstcltk-undocumented*),
7
- dim, gWidgettcltk-method
(*gWidgetstcltk-undocumented*),
7
- dim-methods
(*gWidgetstcltk-undocumented*),
7
- dimnames, gWidgettcltk-method
(*gWidgetstcltk-undocumented*),
7
- dimnames<-, gWidgettcltk-method
(*gWidgetstcltk-undocumented*),
7

- 7
- dispose, gTexttcltk-method
(gWidgetstcltk-undocumented),
7
- dispose, guiWidget-method
(gWidgetstcltk-undocumented),
7
- dispose, gWidgettcltk-method
(gWidgetstcltk-undocumented),
7
- dispose-methods
(gWidgetstcltk-undocumented),
7
- enabled, guiWidget-method
(gWidgetstcltk-undocumented),
7
- enabled, gWidgettcltk-method
(gWidgetstcltk-undocumented),
7
- enabled-methods
(gWidgetstcltk-undocumented),
7
- enabled<-, guiWidget-method
(gWidgetstcltk-undocumented),
7
- enabled<-, gWidgettcltk-method
(gWidgetstcltk-undocumented),
7
- enabled<-methods
(gWidgetstcltk-undocumented),
7
- focus, guiWidget-method
(gWidgetstcltk-undocumented),
7
- focus, gWidgettcltk-method
(gWidgetstcltk-undocumented),
7
- focus-methods
(gWidgetstcltk-undocumented),
7
- focus<-, guiWidget-method
(gWidgetstcltk-undocumented),
7
- focus<-, gWidgettcltk-method
(gWidgetstcltk-undocumented),
7
- focus<-methods
(gWidgetstcltk-undocumented),
7
- font, guiWidget-method
(gWidgetstcltk-undocumented),
7
- font, gWidgettcltk-method
(gWidgetstcltk-undocumented),
7
- font-methods
(gWidgetstcltk-undocumented),
7
- font<-, guiWidget-method
(gWidgetstcltk-undocumented),
7
- font<-, gWidgettcltk-method
(gWidgetstcltk-undocumented),
7
- font<-methods
(gWidgetstcltk-undocumented),
7
- gWidgetstcltk
(gWidgetstcltk-package), 2
- gWidgetstcltk-package, 2
- gWidgetstcltk-undocumented, 7
- id, ANY-method
(gWidgetstcltk-undocumented),
7
- id, GtkTreeViewColumn-method
(gWidgetstcltk-undocumented),
7
- id, guiWidget-method
(gWidgetstcltk-undocumented),
7
- id, gWidgettcltk-method
(gWidgetstcltk-undocumented),
7
- id, tcltkObject-method
(gWidgetstcltk-undocumented),
7
- id-methods
(gWidgetstcltk-undocumented),
7
- id<-, ANY-method
(gWidgetstcltk-undocumented),
7

id<- ,GtkTreeViewColumn-method
 (*gWidgetstcltk-undocumented*),
 7

id<- ,guiWidget-method
 (*gWidgetstcltk-undocumented*),
 7

id<- ,gWidgettcltk-method
 (*gWidgetstcltk-undocumented*),
 7

id<- ,tcltkObject-method
 (*gWidgetstcltk-undocumented*),
 7

id<-methods
 (*gWidgetstcltk-undocumented*),
 7

length,gDroplisttcltk-method
 (*gWidgetstcltk-undocumented*),
 7

length,gSubsetbytcltk-method
 (*gWidgetstcltk-undocumented*),
 7

length,gWidgettcltk-method
 (*gWidgetstcltk-undocumented*),
 7

names,ANY-method
 (*gWidgetstcltk-undocumented*),
 7

names,guiWidget-method
 (*gWidgetstcltk-undocumented*),
 7

names,gWidgettcltk-method
 (*gWidgetstcltk-undocumented*),
 7

names-methods
 (*gWidgetstcltk-undocumented*),
 7

names<- ,ANY-method
 (*gWidgetstcltk-undocumented*),
 7

names<- ,guiWidget-method
 (*gWidgetstcltk-undocumented*),
 7

names<- ,gWidgettcltk-method
 (*gWidgetstcltk-undocumented*),
 7

names<-methods
 (*gWidgetstcltk-undocumented*),
 7

removehandler,GtkTreeViewColumn-method
 (*gWidgetstcltk-undocumented*),
 7

removehandler,guiWidget-method
 (*gWidgetstcltk-undocumented*),
 7

removehandler,gWidgettcltk-method
 (*gWidgetstcltk-undocumented*),
 7

removehandler,tcltkObject-method
 (*gWidgetstcltk-undocumented*),
 7

removehandler-methods
 (*gWidgetstcltk-undocumented*),
 7

runHandlerFor
 (*gWidgetstcltk-undocumented*),
 7

size,guiWidget-method
 (*gWidgetstcltk-undocumented*),
 7

size,gWidgettcltk-method
 (*gWidgetstcltk-undocumented*),
 7

size-methods
 (*gWidgetstcltk-undocumented*),
 7

size<- ,guiWidget-method
 (*gWidgetstcltk-undocumented*),
 7

size<- ,gWidgettcltk-method
 (*gWidgetstcltk-undocumented*),
 7

size<-methods
 (*gWidgetstcltk-undocumented*),
 7

str2
 (*gWidgetstcltk-undocumented*),
 7

svalue,ANY-method
 (*gWidgetstcltk-undocumented*),
 7

svalue,character-method
 (*gWidgetstcltk-undocumented*),
 7

- svalue, gSubsetbytcltk-method
(gWidgetstcltk-undocumented),
7
- svalue, GtkEntry-method
(gWidgetstcltk-undocumented),
7
- svalue, GtkTreeViewColumn-method
(gWidgetstcltk-undocumented),
7
- svalue, guiWidget-method
(gWidgetstcltk-undocumented),
7
- svalue, gWidgettcltk-method
(gWidgetstcltk-undocumented),
7
- svalue-methods
(gWidgetstcltk-undocumented),
7
- svalue<-, guiWidget-method
(gWidgetstcltk-undocumented),
7
- svalue<-, gWidgettcltk-method
(gWidgetstcltk-undocumented),
7
- svalue<-methods
(gWidgetstcltk-undocumented),
7
- tag, guiWidget-method
(gWidgetstcltk-undocumented),
7
- tag, gWidgettcltk-method
(gWidgetstcltk-undocumented),
7
- tag, tcltkObject-method
(gWidgetstcltk-undocumented),
7
- tag-methods
(gWidgetstcltk-undocumented),
7
- tag<-, guiWidget-method
(gWidgetstcltk-undocumented),
7
- tag<-, gWidgettcltk-method
(gWidgetstcltk-undocumented),
7
- tag<-, tcltkObject-method
(gWidgetstcltk-undocumented),
7
- tag<-methods
(gWidgetstcltk-undocumented),
7
- unblockhandler, GtkTreeViewColumn-method
(gWidgetstcltk-undocumented),
7
- unblockhandler, guiWidget-method
(gWidgetstcltk-undocumented),
7
- unblockhandler, gWidgettcltk-method
(gWidgetstcltk-undocumented),
7
- unblockhandler, tcltkObject-method
(gWidgetstcltk-undocumented),
7
- unblockhandler-methods
(gWidgetstcltk-undocumented),
7
- update, ANY-method
(gWidgetstcltk-undocumented),
7
- update, gSubsetbytcltk-method
(gWidgetstcltk-undocumented),
7
- update, gTreetcltk-method
(gWidgetstcltk-undocumented),
7
- update, guiWidget-method
(gWidgetstcltk-undocumented),
7
- update, gWidgettcltk-method
(gWidgetstcltk-undocumented),
7
- update-methods
(gWidgetstcltk-undocumented),
7
- visible, guiWidget-method
(gWidgetstcltk-undocumented),
7
- visible, gWidgettcltk-method
(gWidgetstcltk-undocumented),
7
- visible-methods
(gWidgetstcltk-undocumented),
7
- visible<-, guiWidget-method
(gWidgetstcltk-undocumented),

[7](#)
visible<- , gWidgettcltk-method
 (*gWidgetstcltk-undocumented*),
[7](#)
visible<-methods
 (*gWidgetstcltk-undocumented*),
[7](#)