Package 'widgetTools'

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Title Creates an interactive tcltk widget

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Description This packages contains tools to support the construction of tcltk widgets

Depends R (>= 2.4.0), methods, utils, tcltk

Suggests Biobase

biocViews Infrastructure

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`basicPW-class` *Class "basicPW", a basic class for primary widgets*

Description

This class defines the behavior shared by primary widget object used to build a GUI type interface

Objects from the Class

Objects can be created by calls of the form `new("basicPW", ...)`. Constructors have been defined to create objects of this class for specific widgets such as buttons, list boxes, ..

Slots

`wName`**:** Object of class `"character"` - a string for the name of the object

`wType`**:** Object of class `"character"` - a string defining the type of the primary widget. (e.g. button)

`wValue`**:** Object of class `"ANY"` - the initial value to be associated with the object

`wWidth`**:** Object of class `"numeric"` - an integer for the width of the object to be rendered (if applicable)

`wHeight`**:** Object of class `"numeric"` - an integer for the height of the object to be rendered (if applicable)

`wFuns`**:** Object of class `"list"` - a list of R functions to be executed before the widget is activated

`wPreFun`**:** Object of class `"function"` - a list of functions to be executed before the value of the widget to be updated

`wPostFun`**:** Object of class `"function"` - a list of functions to be executed before the value of the widget to be retrieved

`wNotify`**:** Object of class `"list"` - a list of functions to be executed each time when the value of the widget changes

`wEnv`**:** Object of class `"environment"` - an R environment object within which the value of the object is stored

`wView`**:** Object of class `"widgetView"` - a object of the class widgetView to which the widget is rendered

Methods

wEnv<- `signature(object = "basicPW")`: Set the value for wEnv slot

wEnv `signature(object = "basicPW")`: Get the value for wEnv slot

wFuns<- `signature(object = "basicPW")`: Set the value for wFuns slot

wFuns `signature(object = "basicPW")`: Get the value for wFuns slot

wHeight<- `signature(object = "basicPW")`: Set the value for wHeight slot

wHeight `signature(object = "basicPW")`: Get the value for wHeight slot

wName<- `signature(object = "basicPW")`: Set the value for wName slot

wName `signature(object = "basicPW")`: Get the value for wName slot

wNotify<- `signature(object = "basicPW")`: Set the value for wNotify slot

wNotify `signature(object = "basicPW")`: Get the value for wNotify slot

wPostFun<- `signature(object = "basicPW")`: Set the value for wPostFun slot

wPostFun `signature(object = "basicPW")`: Get the value for wPostFun slot

wPreFun<- `signature(object = "basicPW")`: Set the value for wPreFun slot

wPreFun `signature(object = "basicPW")`: Get the value for wPreFun slot

wType<- `signature(object = "basicPW")`: Set the value for wType slot

wType `signature(object = "basicPW")`: Get the value for wType slot

wValue<- `signature(object = "basicPW")`: Set the value for wValue slot

wValue `signature(object = "basicPW")`: Get the value for wValue slot

wView<- `signature(object = "basicPW")`: Set the value for wView slot

view `signature(object = "basicPW")`: Get the value for wView slot

wWidth<- `signature(object = "basicPW")`: Set the value for wWidth slot

wWidth `signature(object = "basicPW")`: Get the value for wWidth slot

Author(s)

Jianhua Zhang

References

Programming with data

See Also

widgetView-class,widget-class

Examples

```
# Create an R environment to store the values of primary widgets
PWEnv <- new.env(hash = TRUE, parent = parent.frame(1))

# Create a label
label1 <- label(wName = "label1", wValue = "File Name: ", wEnv = PWEnv)

# Create an entry box with "Feed me using brows" as the default value
entry1 <- entryBox(wName = "entry1", wValue = "Feed me using browse",
                   wEnv = PWEnv)
```

button *Functions to construct objects of primary widgets and render them*

Description

All the primary widgets such as button, text box, and so on are objects of basicPW class. The functions are constructors of primary widgets that are subjects of basicPW class with behaviors specific to primary widgets.

Usage

```
button(wName, wEnv, wValue = "", wWidth = 12, wHeight = 0, wFuns = list(),
wNotify = list(), wPreFun = function(x) x, wPostFun = function(x) x,
wView = new("widgetView") )
entryBox(wName, wEnv, wValue = "", wWidth = 50, wHeight = 0, wFuns = list(),
wNotify = list(), wPreFun = function (x) x, wPostFun = function(x) x,
wView = new("widgetView"))
textBox(wName, wEnv, wValue = "", wWidth = 25, wHeight = 12, wFuns = list(),
wNotify = list(), wPreFun = function (x) x, wPostFun = function(x) x,
wView = new("widgetView"))
listBox(wName, wEnv, wValue = "", wWidth = 25, wHeight = 10, wFuns = list(),
wNotify = list(), wPreFun = function (x) x, wPostFun = function(x) x,
wView = new("widgetView"))
checkButton(wName, wEnv, wValue, wWidth = 50, wFuns = list(), wNotify =
list(), wPreFun = function (x) x, wPostFun = function(x) x,
wView = new("widgetView"))
radioButton(wName, wEnv, wValue, wWidth = 50, wFuns = list(), wNotify =
list(), wPreFun = function (x) x, wPostFun = function(x) x,
wView = new("widgetView"))
label(wName, wEnv, wValue = "", wWidth = 0, wHeight = 0, wFuns = list(),
wNotify = list(), wPreFun = function (x) x, wPostFun = function(x) x,
wView = new("widgetView"))
widget(wTitle, pWidgets, funs = list(), preFun = function()
print("Hello"), postFun = function() print("Bye"), env, defaultNames =c(
"Finish", "Cancel"))
widgetView(WVTitle, vName, widgetids = list(), theWidget = new("widget"),
winid)
```

Arguments

wName	wName a character string for the name to be associated with a given primary widget
vName	vName same as wName but for a widget object
wEnv	wEnv an R environment object within which the original values for each primary widget will be stored and updating and retrieval of the values will take place
env	env same as wEnv but for a widget object

wValue	wValue the initial values to be associated with a given primary widget
wWidth	wWidth an integer for the width of the primary widget (if applicable)
wHeight	wHeight an integer for the height of the primary widget (if applicable)
wFuns	wFuns a list of R functions that will be associated with a primary widget and invoked when an operation (e.g. click, get focus, ...) is applied to the primary widget
funs	funs same as wFuns but for a widget object
wNotify	wNotify a list of functions defining the actions to be performed when the value of the primary widget changes
wPreFun	wPreFun an R function that should be applied when the widget is activated
preFun	preFun same as wPreFun but for a view
wPostFun	wPostFun an R function that will be applied when the widget is inactivated
postFun	postFun same as wPostFun but for a view
wTitle	wTitle a character string for the title to be displayed when the widget is rendered
pWidgets	pWidget a list of primary widgets (e.g. button, list box, ...) to be rendered
WVTitle	WVTitle same as wTitle
widgetids	widgetids a list of tkwin ids for the primary widgets to be rendered
theWidget	theWidget a widget object to render the primary widgets
wView	wView an object of class widgetView
winid	winid an object of class winid
defaultNames	defaultName a vector of character string of length two for the text to be shown on the two default buttons. The first is to end the process and the second to abort the process

Details

button constructs a button widget object.

button constructs an entry box widget object.

textBox constructs a text box widget object.

listBox constructs a list box widget object. Value for a listbox object should be a named vector with names being the content to be shown in the list box and values being TRUE (default value) or FALSE.

checkButton constructs a group of check box widget objects. Value for check button objects should be a named vector with names being the content to be shown in the list box and values being TRUE (checked) or FALSE (not checked).

radioButton constructs a group of radio button widget objects. Value for radio button objects should be a named vector with names being the content to be shown in the list box and values being TRUE (default) or FALSE.

label constructs a text label widget object with the value displayed as the text.

widget constructs a widget object to render the primary widgets.

widgetView constructs a widgetView object. This class is for internal use by class widget-class. Users trying to create GUI type widget do not need to use this class.

Value

Each constructor returns a tkwin object for the primary widget object.

Author(s)

Jianhua Zhang

References

R tcltk

See Also

widget-class, basicPW-class

Examples

```
# Create an R environment to store the values of primary widgets
PWEnv <- new.env(hash = TRUE, parent = parent.frame(1))

# Create a label
label1 <- label(wName = "label1", wValue = "File Name: ", wEnv = PWEnv)

# Create an entry box with "Feed me using brows" as the default value
entry1 <- entryBox(wName = "entry1", wValue = "Feed me using browse",
                   wEnv = PWEnv)

# Create a button that will call the function browse2Entry1 when
# pressed.
browse2Entry1 <- function(){
    tempValue <- tclvalue(tkgetOpenFile())
    temp <- get(wName(entry1), env = PWEnv)
    wValue(temp) <- paste(tempValue, sep = "", collapse = ";")
    assign(wName(entry1), temp, env = PWEnv)
}
button1 <- button(wName = "button1", wValue = "Browse",
                    wFuns = list(command = browse2Entry1), wEnv = PWEnv)

# Create a list box with "Option1", "Option2", and "Option3" as the
# content and "Option1" selected
list1 <- listBox(wName = "list1", wValue = c(Option1 = TRUE, Option2 = FALSE,
                                Option3 = FALSE), wEnv = PWEnv)

# Create a text box with "Feed me something" displayed
text1 <- textBox(wName = "text1", wValue = "Feed me something",
                 wEnv = PWEnv)

# Create a set of radio buttons with "radio1" as the default
label2 <- label(wName = "label2", wValue = "Select one:  ", wEnv = PWEnv)
radios1 <- radioButton(wName = "radios1", wValue = c(radio1 = TRUE,
                       radio2 = FALSE, radio3 = FALSE), wEnv = PWEnv)
```

```
# Create a set of check boxes with "check1" selected and "check2" and
# "check3" not selected
label3 <- label(wName = "label3", wValue = "Select one to many: ",
wEnv = PWEnv)
checks1 <- checkButton(wName = "checks1", wValue = c(check1 = TRUE,
                       check22 = FALSE, check3 = FALSE), wEnv = PWEnv)

# Please not that the name of the primary widget object (e.g. checks1)
# should be the same as the value of the name slot of the object
# (e. g. name = "checks1")

# Render the widgets
pWidgets <- list(topRow = list(label1 = label1, entry1 = entry1,
                 button1 = button1), textRow = list(list1 = list1,
                 text1 = text1), radGroup = list(label2 = label2,
                 radios1 = radios1), chkGroup = list(label3 = label3,
                                checks1 = checks1))
## Not run:
## These cannot be run by examples() but should be OK when pasted
## into an interactive R session with the widgetTools package loaded

aWidget <- widget(wTitle = "A test widget", pWidgets, funs = list(),
                 preFun = function() print("Hello"),
                 postFun = function() print("Bye"), env = PWEnv)

## End(Not run)
```

`dropdownList` *A widget to mimic a dropdown list*

Description

The current tcltk library does not support dropdown lists unless an extension is included. The function dropdownList provide an alternative.

Usage

```
dropdownList(base, options, textvariable, width = 10, default, editable
= FALSE)
getListOption(targetWidget, options, height, vScroll = FALSE)
```

Arguments

`base`	`base` a tkwin object that is the parent frame of the dropdown list to be created
`options`	`options` a vector of character strings for the content of the dropdown list
`textvariable`	`textvariable` a tclVar object to be associated with the selected item of the dropdown list
`width`	`width` an integer for the width in number of characters of the selection containing part of the dropdown list

default	default a character string for the default selection that is going to be shown in the selection containing window of the dropdown list
targetWidget	targetWidget a tkwin object for an entry box to which a button will be associated to make the look of a dropdown list
editable	editable a boolean indicating whether the dropdown list will be editable or not
height	height an integer for the height of the dropdown list box. If missing, height will be assigned the length of the options to be shown in the list box
vScroll	vScroll a boolean indicating whether a vertical scroll bar will be associated with the dropdown list box

Details

base can be a top window or a frame.

The widget returns a frame that contains a dropdown list. The frame need to be placed using any of the layout methods of tcltk. The value of the selection will be accessed through the tclVar object passed to the function.

getListOptions is called by dropdown list to get the selected item

Value

dropdownList returns a tkwin object for the frame that contains a dropdown list

getListOptions returns a character string for the selected item

Author(s)

Jianhua Zhang

References

tcltk

See Also

tooltip

Examples

```
## Not run:
    ## These cannot be run by examples() but should be OK when pasted
    ## into an interactive R session with the widgetTools package loaded

    base <- tktoplevel()
    selection <- tclVar()
    dropdownList(base, c("Option 1", "Option 2", "Option 3"),
          selection, 15, "Option 2")
    tclvalue(selection)
    # Destroy toplevel widget
    # tkdestroy(base)

## End(Not run)
```

makeViewer *Put a Scrollable List Box into a tkWidget.*

Description

This function associates a tk listbox with a scroll bar and then puts them into a given tk widget.

Usage

```
makeViewer(target, vWidth = "", vHeight = "", hScroll = FALSE,
vScroll = TRUE, what = "list", side = "left", text = "")
```

Arguments

target	tk widget that can accommodate a list box.
vWidth, vHeight	integers giving width and height of the listbox.
hScroll, vScroll	logicals indicating whether a horizontal or vertical scroll bar should be associated with the list box.
what	A character string indicating the type of the viewer to be put on a widget. Valid types include "list" for list box, "canvas", and "text" for text box
side	A character string for the geometry management of the viewer on the widget. Valid values include "left", "right", "top", and "bottom"
text	A character string to be displayed

Details

Tk list boxes (or canvas, text box) and scroll bars are separate widgets. This function provides a common interface to put them together and functionally associated.

Value

This function does not return any value.

Author(s)

Jianhua (John) Zhang

See Also

tklistbox (from the 'tcltk' package).

Examples

```
## Not run:
    ## These cannot be run by examples() but should be OK when pasted
    ## into an interactive R session with the widgetTools package loaded

    # Create a top level window and put a list box in it
    base <- tktoplevel()
    listBox <- makeViewer(base)

    # Destroy toplevel widget
    # tkdestroy(base)

## End(Not run)
```

`oneVScrList` *A function that creates a groups of list boxes sharing a single vertical scroll bar*

Description

This function creates a group of list boxes what share a common vertical scroll bar. Values in all the list boxes scroll up or down when the scroll bar is dragged

Usage

```
oneVScrList(base, data)
```

Arguments

`base`	`base` a tkwin object that will be the container of the list boxes to be created
`data`	`data` a matrix with data to be put in the list boxes

Details

The matrix should have names for its columns. The names of the list boxes to be created will be the same as the corresponding columns of the matrix.

Data in the list boxes can be sorted based on values in any of the list boxes.

Value

This function returns a list containing the tkwin objects of the list boxes created.

Author(s)

Jianhua Zhang

References

tcltk

See Also

dropdownList, tooltip

Examples

```
## Not run:
    ## These cannot be run by examples() but should be OK when pasted
    ## into an interactive R session with the widgetTools package loaded

    testData <- matrix(c(1:50, 100:51), ncol = 2)
    colnames(testData) <- c("Column 1", "Column 2")
    base <- tktoplevel()
    tt <- oneVScrList(base, testData)

    # Destroy toplevel widget
    # tkdestroy(base)

## End(Not run)
```

`safeFileOpen` *A function that checks to see if a connection can be made to a given file*

Description

This function checks to see if a given file name exists. If so, the function returns a connection to the file. Otherwise, it returns "fileName doest exist".

Usage

```
safeFileOpen(fileName)
```

Arguments

`fileName`	`fileName` a character string for the name of a file to which a connection is to be oppened

Details

When this function is used, users have to make sure to check to see if the returnd object inherits object "connection". Otherwise, the file doest not exist or a connection has not be made.

Value

The function returns a connection object that inherits class "connection" if the file exists and is opend. Otherwise, the string "fileName doest not exist"

Note

This function is no placed here to be used by various widgets. May be mored to a more suitable place later

Author(s)

Jianhua Zhang

See Also

file

Examples

```
write("A test file", "testFile4safeFileOpen")
tt <- safeFileOpen("testFile4safeFileOpen")
inherits(tt, "connection")
unlink("testFile4safeFileOpen")
tt <- safeFileOpen("testFile4safeFileOpen")
inherits(tt, "connection")
```

---

tooltip *A tcltk widget to mimic a tooltip*

Description

Current tcltk library does not support tooltip unless an extension is included. The function tooltip is implemented as an alternative.

Usage

```
tooltip(text, targetWidget, width = 350)
```

Arguments

text	text a character string for the content of the tooltip
targetWidget	targetWidget a tkwin object for the target tcltk widget to which a tool tip will be associated
width	width an integer for the width (in pixels) of the tooltip

Details

Given a target tcltk widget, a tooltip will be associated with the widget. The content of the tooltip will be shown when mouse moves over the widget and disappear when mouse moves out of the widget.

Value

This function returns invisible()

Author(s)

Jianhua Zhang

References

tcltk

See Also

dropdownList

Examples

```
## Not run:
    ## These cannot be run by examples() but should be OK when pasted
    ## into an interactive R session with the widgetTools package loaded

    base <- tktoplevel()
    but <- tkbutton(base, text = "Move Mouse Over Me")
    tkpack(but)
    tkbind(but, "<Enter>", expression(tooltip("Move mouse off me", but)))

    # Destroy toplevel widget
    # tkdestroy(base)

## End(Not run)
```

---

widget-class *Class "widget" creates a widget with primary widgets contained in the list pWidgets rendered*

Description

This class takes a list of primary widgets and then creates a "widgetView" object that renders the primary widgets

Objects from the Class

Objects can be created by calls of the form `new("widget", ...)`.

Slots

`wTitle`: Object of class `"character"` - a character string for the title of the widget to be created

`pWidgets`: Object of class `"list"` - a list of "basicPW" objects representing widget elements to be rendered

`env`: Object of class `"environment"` - an R environment for the object to work within

`funs`: Object of class `"list"` - a list of functions that will be associated with buttons on the widget to be rendered. The name of the function in the list will be the text appears on the button and the function will be executed when the button is pressed

`preFun`: Object of class `"function"` - a function that will be executed before the widget is constructed

`postFun`: Object of class `"function"` - a function that will be executed before the widget is destroyed

Methods

env<- `signature(object = "widget")`: set the value for env

wEnv `signature(object = "widget")`: get the value for env

funs<- `signature(object = "widget")`: set the value for funs

funs `signature(object = "widget")`: get the value for funs

postFuns<- `signature(object = "widget")`: set the value for postFuns

postFun `signature(object = "widget")`: get the value for postFuns

preFuns<- `signature(object = "widget")`: set the value for preFun

preFun `signature(object = "widget")`: get the value for preFun

pWidgets<- `signature(object = "widget")`: set the value for pWidgets

pWidgets `signature(object = "widget")`: get the value for pWidgets

updateCheck `signature(object = "widget")`: update the value of check buttons of the widget to be rendered

updateList `signature(object = "widget")`: update the value of list box/entry of the widget to be rendered

updateRadio `signature(object = "widget")`: update the value of radio buttons of the widget to be rendered

updateText `signature(object = "widget")`: update the value of text box of the widget to be rendered

wTitle<- `signature(object = "widget")`: set the value of wTitle

wTitle `signature(object = "widget")`: get the value of wTitle

Author(s)

Jianhua Zhang

References

Programming with data

See Also

basicPW-class, widgetView-class

Examples

```
PWEnv <- new.env(hash = TRUE, parent = parent.frame(1))

label1 <- label(wName = "label1", wValue = "File Name: ", wEnv = PWEnv)
entry1 <- entryBox(wName = "entry1", wValue = "Feed me using browse",
                   wEnv = PWEnv)
browse2Entry1 <- function(){
    tempValue <- fileBrowser()
    temp <- get(wName(entry1), wEnv = PWEnv)
    wValue(temp) <- paste(tempValue, sep = "", collapse = ";")
    assign(wName(entry1), temp, env = PWEnv)
}
button1 <- button(wName = "button1", wValue = "Browse",
                  wFuns = list(command = browse2Entry1), wEnv = PWEnv)
list1 <- listBox(wName = "list1", wValue = c(Option1 = TRUE, Option2 = FALSE,
                                Option3 = FALSE), wEnv = PWEnv)
text1 <- textBox(wName = "text1", wValue = "Feed me something",
                 wEnv = PWEnv)
label2 <- label(wName = "label2", wValue = "Select one:  ", wEnv = PWEnv)
radios1 <- radioButton(wName = "radios1", wValue = c(radio1 = TRUE,
                       radio2 = FALSE, radio3 = FALSE), wEnv = PWEnv)
label3 <- label(wName = "label3", wValue = "Select one to many: ",
wEnv = PWEnv)
checks1 <- checkButton(wName = "checks1", wValue = c(check1 = TRUE,
                       check22 = FALSE, check3 = FALSE), wEnv = PWEnv)
pWidgets <- list(topRow = list(label1 = label1, entry1 = entry1,
                 button1 = button1), textRow = list(list1 = list1,
                 text1 = text1), radGroup = list(label2 = label2,
                 radios1 = radios1), chkGroup = list(label3 = label3,
                                checks1 = checks1))

## Not run:
## These cannot be run by examples() but should be OK when pasted
## into an interactive R session with the widgetTools package loaded

aWidget <- widget(wTitle = "A test widget", pWidgets, funs = list(),
                 preFun = function() print("Hello"),
                 postFun = function() print("Bye"), env = PWEnv)

## End(Not run)
```

---

widgetView-class *Class "widgetView", a class for a GUI type widget holding widget elements*

Description

"widgetView" renders element widgets

Objects from the Class

Objects can be created by calls of the form `new("widgetView", ...)`. This class is for internal use by class `widget-class`. Users trying to create GUI type widget do not need to use this class.

Slots

`WVTitle`: Object of class `"character"` - a character string that will be displayed as the title of the widget to be created

`vName`: Object of class `"character"` - a character string for the vName of the widget

`winid`: Object of class `"tkwin"` - a tkwin object for the id of the top window for the widget

`widgetids`: Object of class `"list"` - a list of tkwin ids for element widgets

`theWidget`: Object of class `"widget"` - a widget object that creates the widgetView

Methods

killWin `signature(tkWidget = "widgetView")`: destroys the window representing the widgetView

vName<- `signature(object = "widgetView")`: set the value for vName

vName `signature(object = "widgetView")`: get the value for vName

renderWidgets `signature(widgetView = "widgetView",pWidgets = "list")`: takes a list of "basicPW" objects (pWidgets) and renders them accordingly

renewView `signature(widgetView = "widgetView", pWidgets = "list")`: using values contained by the "basicPW" objects of pWidgets to update the values of widget elements displayed

theWidget<- `signature(object = "widgetView")`: set the value for theWidget

theWidget `signature(object = "widgetView")`: get the value for theWidget

updateDisplay `signature(widgetView = "widgetView")`: update the value of list box or text box element widgets

widgetids<- `signature(object = "widgetView")`: set the value of widgetids

widgetids `signature(object = "widgetView")`: get the value of widgetids

winid<- `signature(object = "widgetView")`: set the value of winid

winid `signature(object = "widgetView")`: set the value of winid

winWait `signature(tkWidget = "widgetView")`: make widgetView modal

WVTitle `signature(object = "widgetView")`: get the value for WVTitle

Author(s)

Jianhua Zhang

References

Programming with data

See Also

widget-class,basicPW-class

Examples

```
## Not run:
        ## These cannot be run by examples() but should be OK when pasted
        ## into an interactive R session with the widgetTools package loaded

 widgetView <- widgetView(WVTitle = "demo", vName = "widget1")

## End(Not run)
```

---

writeText *Functions that read from and write to tcltk widgets*

Description

These functions provide some of the common read and write operations for tcltk widgets

Usage

```
writeText(widget, value, clear = TRUE)
writeList(widget, value, clear = TRUE)
getListValue(which)
getTextValue(which)
getEntryValue(which)
```

Arguments

widget	widget a tkwin object for the tcltk widget to be read or written to
value	value the text of numerical value to be written to a tcltk widget
clear	clear a boolean to indicate whether a value will append to the existing one (FALSE)
which	which a tkwin object for the tcltk widget whose value will be retrieved

Details

writeText writes to a given tcltk text box widget.

writeList writes to a given tcltk list or entry box widget.

getListValue retrieves the selected value in a tcltk list widget.

getTextValue retrieves the value of a text box.

getEntryValue retrieves the value of an entry box.

Value

getListValue returns the selected value in a tcltk list widget.

getTextValue returns the value of a text box.

getEntryValue returns the value of an entry box.

Author(s)

Jianhua Zhang

References

R tcltk

See Also

basicPW-class, widget-class

Examples

```
## Not run:
    ## These cannot be run by examples() but should be OK when pasted
    ## into an interactive R session with the widgetTools package loaded

    # Create the widgets
    base <- tktoplevel()
    list <- tklistbox(base, width = 20, height = 5)

    entry <- tkentry(base)
    text <- tktext(base, width = 20, height = 5)
    tkpack(list, entry, text)
    # Write and read from the widgets
    writeList(list, c("Option1", "Option2", "Option3"))
    writeList(entry, "An Entry box")
    writeText(text, "A text box")
    # Will be NULL if not selected
    getListValue(list)
    getTextValue(text)
    getEntryValue(entry)
# Destroy toplevel widget
#    tkdestroy(base)

## End(Not run)
```

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