

# Package ‘svDialogstcltk’

May 10, 2022

**Type** Package

**Version** 1.0.0

**Date** 2022-05-10

**Title** 'SciViews' - Standard Dialog Boxes using Tcl/Tk

**Description** Reimplementation of the 'svDialogs' dialog boxes in Tcl/Tk.

**Maintainer** Philippe Grosjean <phgrosjean@sciviews.org>

**Depends** R (>= 2.6.0), svDialogs (>= 1.0.0), tcltk

**Imports** svGUI (>= 1.0.0), utils, grDevices

**Suggests** spelling, covr, knitr, rmarkdown

**License** GPL-2

**URL** <https://github.com/SciViews/svDialogstcltk>,  
<https://www.sciviews.org/svDialogstcltk/>

**BugReports** <https://github.com/SciViews/svDialogstcltk/issues>

**RoxygenNote** 7.1.1

**VignetteBuilder** knitr

**Encoding** UTF-8

**Language** en-US

**NeedsCompilation** no

**Author** Philippe Grosjean [aut, cre] (<<https://orcid.org/0000-0002-2694-9471>>)

**Repository** CRAN

**Date/Publication** 2022-05-10 16:50:02 UTC

## R topics documented:

|                                |   |
|--------------------------------|---|
| dlg_dir.tcltkGUI . . . . .     | 2 |
| dlg_input.tcltkGUI . . . . .   | 3 |
| dlg_list.tcltkGUI . . . . .    | 4 |
| dlg_message.tcltkGUI . . . . . | 5 |
| dlg_open.tcltkGUI . . . . .    | 6 |
| dlg_save.tcltkGUI . . . . .    | 7 |

---

|                  |                                                                         |
|------------------|-------------------------------------------------------------------------|
| dlg_dir.tcltkGUI | <i>A Tcl/Tk version of the svDialogs directory selection dialog box</i> |
|------------------|-------------------------------------------------------------------------|

---

### Description

Select an existing directory, or create a new one.

### Usage

```
## S3 method for class 'tcltkGUI'  
dlg_dir(default = getwd(), title = "Choose a directory", ..., gui = .GUI)
```

### Arguments

|         |                                                                                       |
|---------|---------------------------------------------------------------------------------------|
| default | The path to the default directory that is proposed (e.g., current working directory). |
| title   | A title to display on top of the dialog box.                                          |
| ...     | Not used yet.                                                                         |
| gui     | The 'gui' object concerned by this dialog box.                                        |

### Value

The path to the selected folder.

### See Also

[svDialogs::dlg\\_dir\(\)](#)

### Examples

```
library(svDialogstcltk) # Tcl/Tk dialog boxes are now used by default  
## Not run:  
# A quick default directory changer  
setwd(dlg_dir(default = getwd())$res)  
  
## End(Not run)
```

---

dlg\_input.tcltkGUI      *A Tcl/Tk version of the svDialogs input a string or value dialog box*

---

### Description

Prompt for some data in a modal dialog box.

### Usage

```
## S3 method for class 'tcltkGUI'  
dlg_input(message = "Enter a value", default = "", ..., gui = .GUI)
```

### Arguments

|         |                                                                                                                                             |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------|
| message | The message to display in the dialog box. Use <code>\\n</code> for line break, or provide a vector of character strings, one for each line. |
| default | The default value in the text box. Single string or NULL.                                                                                   |
| ...     | Not used yet.                                                                                                                               |
| gui     | The 'gui' object concerned by this dialog box.                                                                                              |

### Value

The string the user wrote in the dialog box.

### See Also

[svDialogs::dlg\\_input\(\)](#)

### Examples

```
library(svDialogstcltk) # Tcl/Tk dialog boxes are now used by default  
## Not run:  
# Ask something...  
user <- dlg_input("Who are you?", Sys.info()["user"])$res  
if (!length(user)) {# The user clicked the 'cancel' button  
  cat("OK, you prefer to stay anonymous!\n")  
} else {  
  cat("Hello", user, "\n")  
}  
  
## End(Not run)
```

---

dlg\_list.tcltkGUI      *A Tcl/Tk version of the svDialogs list selection dialog box*

---

## Description

A Tcl/Tk version of the svDialogs list selection dialog box

## Usage

```
## S3 method for class 'tcltkGUI'
dlg_list(
  choices,
  preselect = NULL,
  multiple = FALSE,
  title = NULL,
  ...,
  gui = .GUI
)
```

## Arguments

|           |                                                                                                                                                                                 |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| choices   | The list of items. It is coerced to character strings.                                                                                                                          |
| preselect | A list of preselections, or NULL (then, the first element is selected in the list). Preselections not in choices are tolerated (but they are ignored without warning or error). |
| multiple  | Is it a multiple selection dialog box?                                                                                                                                          |
| title     | The title of the dialog box, or NULL to use a default title instead.                                                                                                            |
| ...       | Not used yet.                                                                                                                                                                   |
| gui       | The 'gui' object concerned by this dialog box.                                                                                                                                  |

## Value

A character vector with the items that were selected by the user.

## See Also

[svDialogs::dlg\\_list\(\)](#)

## Examples

```
library(svDialogstcltk) # Tcl/Tk dialog boxes are now used by default
## Not run:
# Select one or several months
res <- dlg_list(month.name, multiple = TRUE)$res
if (!length(res)) {
  cat("You cancelled the choice\n")
} else {
```

```
        cat("You selected:\n")
        print(res)
    }

    ## End(Not run)
```

---

dlg\_message.tcltkGUI *A Tcl/Tk version of the svDialogs message box*

---

## Description

A Tcl/Tk version of the svDialogs message box

## Usage

```
## S3 method for class 'tcltkGUI'
dlg_message(
    message,
    type = c("ok", "okcancel", "yesno", "yesnocancel"),
    ...,
    gui = .GUI
)
```

## Arguments

|         |                                                                     |
|---------|---------------------------------------------------------------------|
| message | The message to display in the dialog box.                           |
| type    | The type of dialog box: 'ok', 'okcancel', 'yesno' or 'yesnocancel'. |
| ...     | Not used yet.                                                       |
| gui     | The 'gui' object concerned by this dialog box.                      |

## Value

The button pressed by the user.

## See Also

[svDialogs::dlg\\_message\(\)](#)

## Examples

```
library(svDialogstcltk) # Tcl/Tk dialog boxes are now used by default
## Not run:
# A simple information box
dlg_message("Hello world!")$res

# Ask to continue
dlg_message(c("This is a long task!", "Continue?"), "okcancel")$res
```

```

# Ask a question
dlg_message("Do you like apples?", "yesno")$res

# Idem, but one can interrupt too
res <- dlg_message("Do you like oranges?", "yesnocancel")$res
if (res == "cancel")
  cat("Ah, ah! You refuse to answer!\n")

## End(Not run)

```

---

dlg\_open.tcltkGUI      *A Tcl/Tk version of the svDialogs file open dialog box*

---

## Description

A Tcl/Tk version of the svDialogs file open dialog box

## Usage

```

## S3 method for class 'tcltkGUI'
dlg_open(
  default = "",
  title = if (multiple) "Select files" else "Select file",
  multiple = FALSE,
  filters = dlg_filters["All", ],
  ...,
  gui = .GUI
)

```

## Arguments

|          |                                                                                                                                                                                                                                                                                                          |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| default  | The default file to start with (use /dir/* or /dir/*. * to start in a given directory).                                                                                                                                                                                                                  |
| title    | A title to display on top of the dialog box.                                                                                                                                                                                                                                                             |
| multiple | Is a multiple selection of files allowed?                                                                                                                                                                                                                                                                |
| filters  | A specification of file filters as a nx2 matrix, or a character string with even number of items. First items is the label, second one is the filter. See <code>dlg_filters</code> for examples. This is currently ignored on MacOS and RStudio, since such kind of filter is defined differently there. |
| ...      | Not used yet.                                                                                                                                                                                                                                                                                            |
| gui      | The 'gui' object concerned by this dialog box.                                                                                                                                                                                                                                                           |

## Value

The path to the file to open.

**See Also**

[svDialogs::dlg\\_open\(\)](#)

**Examples**

```
library(svDialogstcltk) # Tcl/Tk dialog boxes are now used by default
## Not run:
# Choose one R file
dlg_open(title = "Select one R file", filters = dlg_filters[c("R", "All"), ])$res
# Choose several files
dlg_open(multiple = TRUE)$res

## End(Not run)
```

---

dlg\_save.tcltkGUI      *A Tcl/Tk version of the svDialogs file save dialog box*

---

**Description**

A Tcl/Tk version of the svDialogs file save dialog box

**Usage**

```
## S3 method for class 'tcltkGUI'
dlg_save(
  default = "untitled",
  title = "Save file as",
  filters = dlg_filters["All", ],
  ...,
  gui = .GUI
)
```

**Arguments**

|         |                                                                                                                                                                                                                                                                                              |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| default | The default file to start with (use /dir/* or /dir/*. * to start in a given directory, but without predefined name).                                                                                                                                                                         |
| title   | A title to display on top of the dialog box.                                                                                                                                                                                                                                                 |
| filters | A specification of file filters as a nx2 matrix, or a character string with even number of items. First items is the label, second one is the filter. See <code>dlg_filters</code> for examples. This is currently ignored on MacOS, since such kind of filter is defined differently there. |
| ...     | Not used yet.                                                                                                                                                                                                                                                                                |
| gui     | The 'gui' object concerned by this dialog box.                                                                                                                                                                                                                                               |

**Value**

The path to the file to save to.

**See Also**

[svDialogs::dlg\\_save\(\)](#)

**Examples**

```
library(svDialogstcltk) # Tcl/Tk dialog boxes are now used by default
## Not run:
# Choose one R filename to save some R script into it
dlg_save(title = "Save R script to", filters = dlg_filters[c("R", "All"), ])$res
## End(Not run)
```



# Index

## \* Modal dialog box

- dlg\_dir.tcltkGUI, 2
- dlg\_input.tcltkGUI, 3
- dlg\_list.tcltkGUI, 4
- dlg\_message.tcltkGUI, 5
- dlg\_open.tcltkGUI, 6
- dlg\_save.tcltkGUI, 7

## \* misc

- dlg\_dir.tcltkGUI, 2
- dlg\_input.tcltkGUI, 3
- dlg\_list.tcltkGUI, 4
- dlg\_message.tcltkGUI, 5
- dlg\_open.tcltkGUI, 6
- dlg\_save.tcltkGUI, 7

- dlg\_dir.tcltkGUI, 2
- dlg\_input.tcltkGUI, 3
- dlg\_list.tcltkGUI, 4
- dlg\_message.tcltkGUI, 5
- dlg\_open.tcltkGUI, 6
- dlg\_save.tcltkGUI, 7

- svDialogs::dlg\_dir(), 2
- svDialogs::dlg\_input(), 3
- svDialogs::dlg\_list(), 4
- svDialogs::dlg\_message(), 5
- svDialogs::dlg\_open(), 7
- svDialogs::dlg\_save(), 8