

# Package ‘ProgGUinR’

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**Version** 0.0-4

**Title** support package for “Programming Graphical User Interfaces in R”

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**Depends** methods, utils, ggplot2, svMisc, MASS

**Suggests** qtbase, RGtk2, cairoDevice, gWidgetsRGtk2, gWidgets, tcltk

**Description** sample code, appendices and functions for the text  
Programming GUIs in R

**License** GPL (>= 2)

**URL** NA

**LazyLoad** yes

**Collate** 'misc.R' 'browseWidgetsFiles.R' 'browseQtFiles.R'  
'browseRGtk2Files.R' 'browseTclTkFiles.R' 'showGtkWidgetInfo.R'

**NeedsCompilation** no

**Repository** CRAN

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avail_dfs	<i>List available data frames</i>
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### Description

List available data frames

### Usage

```
avail_dfs(envir = parent.frame())
```

### Arguments

envir            the environment to search in

### Value

a character vector with data frame names

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browsegWidgetsFiles	<i>Simple GUI to browse gWidgets examples</i>
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### Description

Simple GUI to browse gWidgets examples

### Usage

```
browsegWidgetsFiles(toolkit = "RGtk2")
```

### Arguments

toolkit            Which toolkit to use (RGtk2, tcltk or Qt)

### Value

NULL

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browseQtFiles	<i>Creates GUI to browse QT examples</i>
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**Description**

Creates GUI to browse QT examples

**Usage**

```
browseQtFiles()
```

**Value**

makes the GUI to browse the example files for Qt.

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browseRGtk2Files	<i>Makes a GUI to browse the RGtk2 examples</i>
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**Description**

Makes a GUI to browse the RGtk2 examples

**Usage**

```
browseRGtk2Files()
```

**Value**

produces the GUI

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browseTclTkFiles	<i>GUI to display tcltk examples</i>
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**Description**

GUI to display tcltk examples

**Usage**

```
browseTclTkFiles()
```

**Value**

NULL

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<code>day.of.week</code>	<i>Day of week for a given year, month day</i>
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**Description**

from `chron` with slight change to arguments

**Usage**

`day.of.week(year, month, day)`

**Arguments**

<code>year</code>	year
<code>month</code>	month as integer 1 to 12
<code>day</code>	day of month

**Value**

day of week in 0:6

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<code>days.in.month</code>	<i>how many days in a month</i>
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**Description**

how many days in a month

**Usage**

`days.in.month(year, month)`

**Arguments**

<code>year</code>	year as integer
<code>month</code>	month in 1 to 12

**Value**

number of days in the given month

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find_vars	<i>return variable names in a data frame or environment matching some condition</i>
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### Description

return variable names in a data frame or environment matching some condition

default method

character method

data frame method

find variables

### Usage

```
find_vars(x, cond = function(x) TRUE)

## Default S3 method:
find_vars(x, cond = function(x) TRUE)

## S3 method for class 'character'
find_vars(x, cond = function(x) TRUE)

## S3 method for class 'data.frame'
find_vars(x,
  cond = function(x) TRUE)

## S3 method for class 'environment'
find_vars(x,
  cond = function(x) TRUE)
```

### Arguments

x	a data frame,data frame name in the global workspace or an environment
cond	a function to apply to each column of the data frame Only those matching a returned

### Value

a character vector of variable names.

### Examples

```
library(MASS) # for Cars93 data frame
find_vars(Cars93, cond=is.factor)
```

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 LoremIpsum

*Lorem Ipsum text*


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### Description

The Lorem ipsum text is used in typesetting to fill space when showing a mockup.

### Usage

LoremIpsum

### Format

chr Lorem ipsum dolor sit amet, consectetur adipiscing elit, ...

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 make\_graph\_icon

*make an icon for type of graph*


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### Description

Stolen from ggplot – but this is now deprecated!

### Usage

make\_graph\_icon(x, ...)

### Arguments

x	type of graph. E.g., "boxplot", "abline", ...
...	dots

### Value

a recipe to draw an icon

### Examples

```
##' ## Doesn't work as of ggplot2 version 0.9.2
##library(grid); grid.newpage(); grid.draw(make_graph_icon("hist"))
```

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make_icon	<i>icon functions</i>
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## Description

Idea is taken from ggplot2  
method for numeric class  
method for numeric class  
method for numeric class  
method for numeric class  
method for numeric class

## Usage

```
make_icon(x, ...)  
  
## S3 method for class 'numeric'  
make_icon(x, ...)  
  
## S3 method for class 'factor'  
make_icon(x, ...)  
  
## S3 method for class 'character'  
make_icon(x, ...)  
  
## S3 method for class 'logical'  
make_icon(x, ...)  
  
## S3 method for class 'data.frame'  
make_icon(x, ...)
```

## Arguments

x	object
...	dots

## Value

a recipe to draw an icon

## Examples

```
x <- rnorm(10)  
library(grid); grid.newpage(); grid.draw(make_icon(x))
```

nsprintf                      *sprintf with template depending on integer valued n*

---

**Description**

sprintf with template depending on integer valued n

**Usage**

```
nsprintf(n, msg1, msg2, ...)
```

**Arguments**

n	number passed to sprintf call
msg1	<a href="#">sprintf</a> template when n == 1.
msg2	<a href="#">sprintf</a> template when n > 1.
...	passed to ngettext

**Value**

a character string

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showGtkWidgetInfo            *Show info on Gtk widgets*

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**Description**

Show info on Gtk widgets

**Usage**

```
showGtkWidgetInfo()
```

**Value**

NULL



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validDate	<i>is this a valid date?</i>
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**Description**

is this a valid date?

**Usage**

```
validDate(year, month, day)
```

**Arguments**

year	year as number
month	Month in 1 to 12
day	in 1:12

**Value**

logical

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week.of.month	<i>0-based week of month</i>
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**Description**

0-based week of month

**Usage**

```
week.of.month(year, month, day)
```

**Arguments**

year	year
month	month in 1 .. 12
day	day of year

**Value**

week (0-based) of the given day

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