Package ‘ProgGUIinR’

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Title support package for "Programming Graphical User Interfaces in R"
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Depends methods, utils, ggplot2, svMisc, MASS
Suggests qbase, RGtk2, cairoDevice, gWidgetsRGtk2, gWidgets, tcltk
Description sample code, appendices and functions for the text
Programming GUIs in R
License GPL (>= 2)
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LazyLoad yes
Collate 'misc.R' 'browseWidgetsFiles.R' 'browseQtFiles.R'
'browseRGtk2Files.R' 'browseTclTkFiles.R' 'showGtkWidgetInfo.R'
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browseWidgetsFiles

**Description**
Simple GUI to browse gWidgets examples

**Usage**
browseWidgetsFiles(toolkit = "RGtk2")

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

**Value**
NULL

---

avail_dfs

**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

---

showGtkWidgetInfo

validDate

week.of.month
**browseQtFiles**  
*Creates GUI to browse QT examples*

**Description**  
Creates GUI to browse QT examples

**Usage**  
browseQtFiles()

**Value**  
makes the GUI to browse the example files for Qt.

---

**browseRGtk2Files**  
*Makes a GUI to browse the RGtk2 examples*

**Description**  
Makes a GUI to browse the RGtk2 examples

**Usage**  
browseRGtk2Files()

**Value**  
produces the GUI

---

**browseTclTkFiles**  
*GUI to display tcltk examples*

**Description**  
GUI to display tcltk examples

**Usage**  
browseTclTkFiles()

**Value**  
NULL
### day.of.week

**Description**

Day of week for a given year, month day

from chron with slight change to arguments

**Usage**

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

**Arguments**

- **year**: year
- **month**: month as integer 1 to 12
- **day**: day of month

**Value**

day of week in 0:6

---

### days.in.month

**Description**

how many days in a month

**Usage**

days.in.month(year, month)

**Arguments**

- **year**: year as integer
- **month**: month in 1 to 12

**Value**

number of days in the given month
find_vars


describe

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 are returned

Value

a character vector of variable names.

Examples

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

Description

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

Usage

Lorem Ipsum

Format

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

make_graph_icon

make an icon for type of graph

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"))
make_icon

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
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**

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

**Arguments**

- `n`: number passed to `sprintf` call
- `msg1`: `sprintf` template when `n == 1`
- `msg2`: `sprintf` template when `n > 1`
- `...`: passed to `ngettext`

**Value**

a character string

---

**showGtkWidgetInfo**

`Show info on Gtk widgets`

**Description**

`Show info on Gtk widgets`

**Usage**

```c
showGtkWidgetInfo()
```

**Value**

`NULL`
validDate

is this a valid date?

Description

is this a valid date?

Usage

validDate(year, month, day)

Arguments

<table>
<thead>
<tr>
<th>year</th>
<th>year as number</th>
</tr>
</thead>
<tbody>
<tr>
<td>month</td>
<td>Month in 1 to 12</td>
</tr>
<tr>
<td>day</td>
<td>in 1:12</td>
</tr>
</tbody>
</table>

Value

logical

week.of.month

0-based week of month

Description

0-based week of month

Usage

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

Arguments

<table>
<thead>
<tr>
<th>year</th>
<th>year</th>
</tr>
</thead>
<tbody>
<tr>
<td>month</td>
<td>month in 1 .. 12</td>
</tr>
<tr>
<td>day</td>
<td>day of year</td>
</tr>
</tbody>
</table>

Value

week (0-based) of the given day
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