

oaReporting

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| | |
|------------|-------------------------------|
| createPlot | <i>Create and save a plot</i> |
|------------|-------------------------------|

Description

Create and save a plot

Usage

```
createPlot(fun, envir = parent.frame(), ...)
```

Arguments

| | |
|-------|--|
| fun | the function call to be executed |
| envir | an environment in which fun is evaluated, see the eval function for details, |
| ... | parameters to be passed to the graphics device |

Value

path to the created plot, or NULL

Author(s)

Willem Ligtenberg

insertFigures *produce latex code to include several figures in R*

Description

produce latex code to include several figures in R

Usage

```
insertFigures(paths = "", captions = NULL, labels = NULL,
              generalCaption = NULL, generalLabel = NULL, nCol = NULL, nRow = NULL,
              width = NULL, fullWidth = c("textwidth", "linewidth"), locator = "H",
              posMultipleFig = "c")
```

Arguments

| | |
|----------------|---|
| paths | character, paths to the figure(s) |
| captions | character, caption for each figure |
| labels | character, label for each figure |
| generalCaption | character, general caption for all figures (used only if several figures are given in input) |
| generalLabel | character, general label for all figures (used only if several figures are given in input) |
| nCol, | number of figure per row, if NULL (by default) and if several figure are specified, an automatic layout is used (with the n2mfrow function) |
| nRow | number of figures per column, if NULL (by default), put all figures in one page |
| width | width (in proportion of 'fullWidth') of all figure(s), NULL by default if several figure are given, so use nCol |
| fullWidth | character used to specify maximum width (used when width = 1), either 'textwidth', or 'linewidth' |
| locator | locator for the figure, 'H' by default |
| posMultipleFig | position for each figure within the all layout 'c' by default, used only if several figures are given |

Value

latex code to include the figures

Author(s)

Laure Cougnaud

insertFloats *produce latex code to include several floats in R*

Description

produce latex code to include several floats in R

Usage

```
insertFloats(floats = "", captions = NULL, labels = NULL,
             generalCaption = NULL, generalLabel = NULL, typeFloat = c("figure",
             "table"), nCol = NULL, nRow = NULL, width = NULL,
             fullWidth = c("textwidth", "linewidth"), locator = "H",
             posMultipleFloat = "c")
```

Arguments

| | |
|------------------|---|
| floats | character, float object(s) |
| captions | character, caption for each float |
| labels | character, label for each float |
| generalCaption | character, general caption for all floats (used only if several floats are given in input) |
| generalLabel | character, general label for all floats (used only if several floats are given in input) |
| typeFloat, | character specifying the type of the float, either 'figure' or 'table' |
| nCol, | number of floats per row, if NULL (by default) and if several floats are specified, an automatic layout is used (with the n2mfrow function) |
| nRow | number of figures per column, if NULL (by default), put all figures in one page |
| width | width (in proportion of 'fullWidth') of all floats, NULL by default |
| fullWidth | character used to specify maximum width (used when width = 1), either 'textwidth', or 'linewidth' |
| locator | locator for the float, 'H' by default |
| posMultipleFloat | position for each float within the all layout 'c' by default, used only if several floats are given |

Value

latex code to include the floats

Author(s)

Laure Cougnaud, with some code from Willem Ligtenberg

insertFloats1 *produce latex code to include figures (only one 'Figure' environment)*

Description

produce latex code to include figures (only one 'Figure' environment)

Usage

```
insertFloats1(floats = "", captions = NULL, labels = NULL,
  generalCaption = NULL, generalLabel = NULL, typeFloat = c("figure",
  "table"), continuedFloat = FALSE, width, fullWidth = c("textwidth",
  "linewidth"), locator = "H", posMultipleFloat = "c",
  forceSubfigure = FALSE)
```

Arguments

| | |
|------------------|---|
| floats | character, float object(s) |
| captions | character, caption for each float |
| labels | character, label for each float |
| generalCaption | character, general caption for all floats (used only if several floats are given in input) |
| generalLabel | character, general label for all floats (used only if several floats are given in input) |
| typeFloat, | character specifying the type of the float, either 'figure' or 'table' |
| continuedFloat | logical, if TRUE (FALSE by default), a 'ContinuedFloat' command is added after the 'beginFigure' to be able to use the correct labels in a figure expanded in several pages |
| width | width (in proportion of 'fullWidth') of all floats, NULL by default, so use nCol |
| fullWidth | character used to specify maximum width (used when width = 1), either 'textwidth', or 'linewidth' |
| locator | locator for the float, 'H' by default |
| posMultipleFloat | position for each float within the all layout 'c' by default, used only if several floats are given |
| forceSubfigure | logical, if TRUE (FALSE by default) uses a subfigure environment |

Value

latex code to include the floats

Author(s)

Laure Cougnaud

| | |
|--------------|--|
| insertTables | <i>produce latex code to include several tables in R</i> |
|--------------|--|

Description

produce latex code to include several tables in R

Usage

```
insertTables(tables = "", captions = NULL, labels = NULL,  
             generalCaption = NULL, generalLabel = NULL, nCol = NULL, nRow = NULL,  
             width = NULL, fullWidth = c("textwidth", "linewidth"), locator = "H",  
             posMultipleTable = "c")
```

Arguments

| | |
|------------------|--|
| tables | character, tables, most commonly tabular objects |
| captions | character, caption for each table |
| labels | character, label for each table |
| generalCaption | character, general caption for all tables (used only if several tables are given in input) |
| generalLabel | character, general label for all tables (used only if several tables are given in input) |
| nCol, | number of table per row, if NULL (by default) and if several table are specified, an automatic layout is used (with the n2mfrow function) |
| nRow | number of figures per column, if NULL (by default), put all figures in one page |
| width | width (in proportion of 'fullWidth') of all table, 0.65 by default if only one table is given, NULL by default if several table are given, so use nCol |
| fullWidth | character used to specify maximum width (used when width = 1), either 'textwidth', or 'linewidth' |
| locator | locator for the table, 'H' by default |
| posMultipleTable | position for each table within the all layout 'c' by default, used only if several tables are given |

Value

latex code to include the tables

Author(s)

Laure Cougnaud

| | |
|------------|--|
| openDevice | <i>Open a graphics device based upon the file name</i> |
|------------|--|

Description

Open a graphics device based upon the file name

Usage

```
openDevice(...)
```

Arguments

... parameters to be passed to the graphics device

Value

path to the created plot, or NULL

Author(s)

Willem Ligtenberg

| | |
|--------------------------|---|
| printSessionInfoMarkdown | <i>format the sessionInfo output for markdown</i> |
|--------------------------|---|

Description

The equivalent output for LaTeX can be obtained via: `toLatex(sessionInfo())`.

Usage

```
printSessionInfoMarkdown(order = c("alphabetically", "original"),
  addVersionBioconductor = TRUE)
```

Arguments

`order`, string, either 'alphabetically' or 'original', depending if the strings in each slot (e.g. the packages in 'attached base packages') should be sorted alphabetically or if no sorting should be done

`addVersionBioconductor` logical, if TRUE (FALSE by default) print also Bioconductor version (BiocInstaller) if available

Value

no returned value, the reformatted output of `sessionInfo` is printed in the current console

Author(s)

Laure Cougnaud

| | |
|--------------|--|
| printTabular | <i>return latex code of a table in a 'tabular' environment, this function has be made to be easily used with the 'insertTables' function</i> |
|--------------|--|

Description

return latex code of a table in a 'tabular' environment, this function has be made to be easily used with the 'insertTables' function

Usage

```
printTabular(x, ...)
```

Arguments

| | |
|-----|---|
| x | matrix, dataframe, in theory any object that could be handled with xtable |
| ... | any arguments that could be given to the 'xtable' or the 'print.xtable' |

Value

latex code to include a tabular environment

Author(s)

Laure Cougnaud

Examples

```
tableI <- matrix(sample(1:100, 8), ncol = 4, nrow = 2, dimnames = list(paste0("row", 1:2), paste0("col", 1:4)))
# simple tabular object
tabularI <- printTabular(tableI)
cat(tabularI)
#same as, but manually coded
tabularIMan <- print(xtable(tableI), floating = FALSE, print.results = FALSE)
cat(tabularIMan)
# tabular object with specified 'xtable' arguments
tabularWithXtableArgs <- printTabular(tableI, caption = "test", label = "label", align = "c|cccc|", digits = 1,
cat(tabularWithXtableArgs)
# tabular object with specified 'print.xtable' arguments
#Notice that you get a warning, because the 'floating' and the 'print.results' are set to FALSE
tabularWithPrintXtableArgs <- printTabular(tableI, size = "small", print.results = FALSE)
cat(tabularWithPrintXtableArgs)
```

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