

# oaReporting

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createPlot	<i>Create and save a plot</i>
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### Description

Create and save a plot

### Usage

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

### Arguments

fun	the function call to be executed
envir	an <a href="#">environment</a> in which fun is evaluated, see the <a href="#">eval</a> function for details,
...	parameters to be passed to the graphics device

### Value

path to the created plot, or NULL

### Author(s)

Willem Ligtenberg

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

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### 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)*

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### 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

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

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

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printSessionInfoMarkdown	<i>format the <a href="#">sessionInfo</a> output for markdown</i>
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**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

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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>
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### 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 =
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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