Package 'SweaveLst'

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R topics documented:
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2 graph2pdffile

graph2pdffile	Creates a pdf file by converting a graph to tikz and lualatexing the
	output

Description

Based on tikzDevice::tikz.

Usage

```
graph2pdffile(
  texte,
  output = tempfile(fileext = ".pdf"),
  widthe = 7,
  heighte = 7,
  caption = NULL,
  label = NULL,
  addfigureenv = FALSE,
  sanitize = FALSE,
  modify = NULL,
  addtopreamble = NULL,
  ...
)
```

Arguments

texte file containing tikz code output fill path (will be overwritten if existing with no warning) output widthe a numeric heighte a numeric caption a character string. label a character string. addfigureenv a boolean sanitize a booleaan modify a function that takes a character string as a parameter and returns a character string additional parameters to pass to tikzDevice::tikz usepackages a character string

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Examples

graph2texfile

Modifies the output of the tikz command and copies it to a tex file.

Description

Based on tikzDevice::tikz.

Usage

```
graph2texfile(
   texte,
   output = tempfile(fileext = ".tex"),
   modify = NULL,
   widthe = 7,
   heighte = 7,
   caption = NULL,
   label = NULL,
   addfigureenv = FALSE,
   sanitize = FALSE,
   standalone = FALSE,
   addtopreamble = NULL,
   ...
)
```

Arguments

texte file containing tikz code

modify a function that takes a character string as a parameter and returns a character string

widthe a numeric

heighte a numeric

caption a character string.

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```
label a character string.

addfigureenv a boolean

sanitize a booleaan

standalone a booleaan

... additional parameters to pass to tikzDevice::tikz

scale=c(1, 1) a two parameters scale to apply to the graph

yxratio=c(1, 1),

usepackages a character string
```

Examples

```
## First example: we generate the tikz code for a graph.
outputtexfile<-tempfile(fileext = ".tex")</pre>
graph2texfile(
"print(ggplot2::ggplot(data=cars,ggplot2::aes(x=speed,y=dist))+
     ggplot2::geom_point())",
 output=outputtexfile)
readLines(outputtexfile)
graph2texfile(
"print(ggplot2::ggplot(data=cars,ggplot2::aes(x=speed,y=dist))+
     ggplot2::geom_point())",
 standalone=TRUE,
 output=outputtexfile,
 modify=function(y){
readLines(outputtexfile)
system(paste0("cd ",dirname(outputtexfile),"; lualatex '",basename(outputtexfile),"';"))
fs::file_show(gsub(".tex",".pdf",outputtexfile))
```

graphtikzcode

Reads the output file of the tikz command into an R character string.

Description

Based on tikzDevice::tikz.

Usage

```
graphtikzcode(
  texte,
  widthe = 7,
  heighte = 7,
  scale = c(1, 1),
  yxratio = c(1, 1),
  caption = NULL,
```

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```
label = NULL,
addfigureenv = FALSE,
sanitize = FALSE,
modify = NULL,
addtopreamble = character(0),
standalone = FALSE,
...
)
```

Arguments

```
texte
                  file containing tikz code
widthe
                  a numeric
heighte
                  a numeric
caption
                  a character string.
label
                  a character string.
addfigureenv
                  a boolean
sanitize
                  a booleaan
modify
                  a function that takes a character string as a parameter and returns a character
                  string
standalone
                  a booleaan
                  additional parameters to pass to tikzDevice::tikz
scale=c(1, 1)
                  a two parameters scale to apply to the graph
yxratio=c(1, 1),
                  a character string
usepackages
```

Examples

```
## First example: we generate the tikz code for a graph.
library(ggplot2)
texte="print(ggplot(data=cars,aes(x=speed,y=dist))+geom_point())"
graphtikzcode("print(ggplot(data=cars,aes(x=speed,y=dist))+geom_point())")
## Second example, we create a rnw file
## This rnw file will be interpretated by Sweave and will print the
## tikz dode of the plot into the corresponding tex file.

figonlyrnwfile<-tempfile(fileext = ".rnw")
file.create(figonlyrnwfile);
sink(figonlyrnwfile)
cat(
'\\Sexpr{graphtikzcode("print(ggplot(data=cars,aes(x=speed,y=dist))+geom_point())")}
')
sink()
SweaveLst::Sweavelst(fullpath = figonlyrnwfile)
readLines(gsub(".rnw",".tex",figonlyrnwfile))</pre>
```

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print_demo_file

Gives the tex code to print a demo code

Description

Gives the tex code to print a demo code

Usage

```
print_demo_file(topic, package)
```

Sweavelst

Sweaves a document and replace all R code by lstlisting environment in the output

Description

Sweaves a document and replace all R code by Istlisting environment in the output

Usage

```
Sweavelst(
  file = NULL,
  path = getwd(),
  fullpath = NULL,
  out.width = 10,
  width = 50,
  height = 10,
  prompte = " "
```

Arguments

```
file a character string, the filename of the file to Sweave fullpath a full path out.width a numeric value width a numeric value height a numeric value prompte a character string
```

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