Package 'SweaveLst'

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Type Package

Title X

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Imports stargazer

Suggests

Description Data

Remotes yihui/tikzDevice

License GPL (>= 2)

LazyLoad yes

LazyData true

RoxygenNote 7.1.1

R topics documented:

compile — *Run pdflatex, bibtex, pdflatex pdflates on file*

Description

Run pdflatex, bibtex, pdflatex pdflates on file

Usage

```
compile(filepath)
```

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	output fill path (will be overwritten if existing with no warning)
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

Examples

```
## First example: we generate the tikz code for a graph.

outputpdffile<-tempfile(fileext = ".pdf")
command="print(ggplot2::ggplot(data=cars,ggplot2::aes(x=speed,y=dist))+ggplot2::geom_point())"
graph2pdffile(command,output=outputpdffile)
readLines(outputpdffile)
fs::file_show(outputpdffile)
graph2pdffile(command,output=outputpdffile,widthe=7,heighte=3)
fs::file_show(outputpdffile)
command="print(ggplot2::ggplot(data=cars,ggplot2::aes(x=speed,y=dist,color=dist))+
ggplot2::geom_point())"
fs::file_show(graph2pdffile(command,widthe=7,heighte=3,modify=function(y){
gsub("dist","$\\frac{1-\\exp\\left(-\\mathrm(x)^2\\right)}{\\sin(\\mathrm{x})+\\mathds{1}_{\\{0\\}}(\\mathrm{x
```

`graph2pngfile` *Creates a png file by converting a graph to tikz and lualatexing the output*

Description

Based on tikzDevice::tikz.

Usage

```
graph2pngfile(
  texte,
  output = tempfile(fileext = ".png"),
  widthe = 7,
  heighte = 7,
  caption = NULL,
  label = NULL,
  addfigureenv = FALSE,
  sanitize = FALSE,
  modify = NULL,
  addtopreamble = NULL,
  ...
)
```

Arguments

texte	file containing tikz code
output	output fill path (will be overwritten if existing with no warning)
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

Examples

```
## First example: we generate the tikz code for a graph.

outputpngfile<-tempfile(fileext = ".png")
command="print(ggplot2::ggplot(data=cars,ggplot2::aes(x=speed,y=dist))+ggplot2::geom_point())"
graph2pngfile(command,output=outputpngfile)
readLines(outputpngfile)
fs::file_show(outputpngfile)
graph2pngfile(command,output=outputpngfile,widthe=7,heighte=3)
fs::file_show(outputpngfile)
command="print(ggplot2::ggplot(data=cars,ggplot2::aes(x=speed,y=dist,color=dist))+
ggplot2::geom_point())"
fs::file_show(graph2pngfile(command,widthe=7,heighte=3,modify=function(y){
gsub("dist","$\\frac{1-\\exp\\left(-\\mathrm(x)^2\\right)}{\\sin(\\mathrm{x})+\\mathds{1}_{\\{0\\}}(\\mathrm{x
convert a print (graph) expression to a png file.
```

---

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.
label	a character string.
addfigureenv	a boolean
sanitize	a booleaan
standalone	a booleaan
...	additional parameters to pass to tikzDevice::tikz
scale=c(1, 1) yxratio=c(1, 1),	a two parameters scale to apply to the graph
usepackages	a character string

Examples

```
## First example: we generate the tikz code for a graph.

outputtexfile<-tempfile(fileext = ".tex")
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){
gsub("dist","$\\\\\\\\\left(1-\\\\\\\\exp\\\\\\\\left(-\\\\\\\\mathrm(x)^2\\\\\\\\right)\left(\\\\\\\\sin(\\\\\
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,
  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) yxratio=c(1, 1),	a two parameters scale to apply to the graph
usepackages	a character string

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))

library(ggplot2)
figureX<-function(){
figureXX<-ggplot(data=cars,aes(x=speed,y=dist))+geom_point()
x=graphtikzcode("print(figureXX)")
graph2texfile("print(figureXX)",file.path(tempdir(),"figureX.tex"))
graph2pdffile("print(figureXX)",file.path(tempdir(),"figureX.pdf"))
}
figureX()
fs::file_show(file.path(tempdir(),"figureX.pdf"))
```

`nettoie` *get rid of all latex compilation files*

Description

get rid of all latex compilation files

Usage

```
nettoie(directory = getwd())
```

Arguments

`directory`	a character string indicating a file path.

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)
```

sanitizeLatexS *sanitise latex*

Description

sanitise latex

Usage

```
sanitizeLatexS(str)
```

Arguments

str	a character string

stargazer2 *Prints a multidimensional array*

Description

Prints a multidimensional array

Usage

```
stargazer2(...)
```

Arguments

...	additional arguments to pass to SweaveLst::stargazer2

stargazerarray *Prints a multidimensional array*

Description

Prints a multidimensional array

Usage

```
stargazerarray(XX, ...)
```

Arguments

...	additional arguments to pass to SweaveLst::stargazer2

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 lstlisting 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

`texify_mdfile` *sanitise latex*

Description

sanitise latex

Usage

```
texify_mdfile(input, output)
```

Arguments

`fullpath`	a path to a file

Examples

```
temp.file=tempfile()
sink(temp.file)
cat("$x=1$
```{r}
x=list(x=1)
x$x
```
`r x$x`
")
sink()
readLines(temp.file)
fullpath=temp.file
```

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