Package 'SweaveLst'

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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.

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```
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}}<\\\0\\)}(\\mathrm{x}<\\\0\\\)}(\\mathrm{x}<\\\0\\\)}(\\mathrm{x}<\\\\0\\\)}(\\mathrm{x}<\\\0\\\\)</pre>
```

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,
  ...
)
```

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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.</pre>
```

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,
```

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```
heighte = 7,
caption = NULL,
label = NULL,
addfigureenv = FALSE,
sanitize = FALSE,
standalone = FALSE,
addtopreamble = NULL,
...
)
```

Arguments

```
texte
                  file containing tikz code
                  a function that takes a character string as a parameter and returns a character
modify
                  string
widthe
                  a numeric
heighte
                  a numeric
caption
                  a character string.
label
                  a character string.
addfigureenv
                  a boolean
sanitize
                  a booleaan
                  a booleaan
standalone
                  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){
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))
```

6 graphtikzcode

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)
                  a two parameters scale to apply to the graph
yxratio=c(1, 1),
                  a character string
usepackages
```

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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")</pre>
file.create(figonlyrnwfile);
sink(figonlyrnwfile)
'\\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(){</pre>
figureXX<-ggplot(data=cars,aes(x=speed,y=dist))+geom_point()</pre>
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.

8 stargazer2

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

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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 Istlisting 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
```

10 texify_mdfile

texify_mdfile

sanitise latex

Description

sanitise latex

Usage

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

Arguments

fullpath a path to a file

Examples

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```