Package 'rrtable'

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Type Package

Title Reproducible Research with a Table of R Codes

Version 0.1.0

Imports stringr, ggplot2 (>= 2.2.0), officer (>= 0.3.0), purrr (>= 0.2.4), flextable (>= 0.4.4), rvg, magrittr, devEMF, moonBook (>= 0.1.8), rmarkdown, shiny, editData, readr (>= 1.1.1), ztable (>= 0.1.8)

Description Makes documents containing plots and tables from a table of R codes. Can make ``HTML'', ``pdf('LaTex')'', ``docx('MS Word')'' and ``pptx('MS powerpoint')'' documents with or without R code.
In the package, modularized 'shiny' app codes are provided. These modules are intended for reuse across applications.

Depends R(>= 2.10)

License GPL-3

Encoding UTF-8

LazyData true

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VignetteBuilder knitr

Suggests knitr

NeedsCompilation no

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add_2flextables *Add two flextables into a document object*

Description

Add two flextables into a document object

Usage

```
add_2flextables(mydoc, ft1, ft2, echo = FALSE, width = 3, code = "")
```

Arguments

mydoc	A document object
ft1	The first flextable
ft2	The second flextable
echo	whether or not display R code
width	plot width in inches
code	R code string

Value

a document object

Examples

```
require(rrtable)
require(officer)
require(magrittr)
title="Two Tables"
ft1=df2flextable(head(iris[1:4]))
ft2=df2flextable(tail(iris[1:4]))
doc=read_docx()
doc %>% add_text(title=title) %>%
        add_2flextables(ft1,ft2) %>%
        print(target=paste0(tempdir(),"/","2tables.docx"))
```

add_2ggplots *Add two ggplots into a document object*

Description

Add two ggplots into a document object

Usage

```
add_2ggplots(mydoc, plot1, plot2, width = 3, height = 2.5, top = 2)
```

Arguments

mydoc	A document object
plot1	An R code encoding the first ggplot
plot2	An R code encoding the second ggplot
width	plot width in inches
height	plot height in inches
top	top plot position in inches

Value

a document object

Examples

```
require(ggplot2)
require(magrittr)
require(officer)
require(rvg)
plot1 <- "ggplot(data = iris, aes(Sepal.Length, Petal.Length)) + geom_point()"
plot2 <- "ggplot(data = iris, aes(Sepal.Length, Petal.Length, color = Species)) + geom_point()"
read_pptx() %>% add_text(title="Two ggplots") %>% add_2ggplots(plot1=plot1,plot2=plot2)
```

add_2plots *Add two plots into a document object*

Description

Add two plots into a document object

Usage

```
add_2plots(mydoc, plotstring1, plotstring2, width = 3, height = 2.5,
  echo = FALSE, top = 2)
```

Arguments

mydoc	A document object
plotstring1	An R code string encoding the first plot
plotstring2	An R code string encoding the second plot
width	plot width in inches
height	plot height in inches
echo	logical Whether or not show R code
top	top plot position in inches

Value

a document object

Examples

```
require(magrittr)
require(officer)
plotstring1="plot(1:10)"
plotstring2="hist(rnorm(100))"
read_pptx() %>% add_text(title="Two plots") %>% add_2plots(plotstring1,plotstring2) %>%
print(target=paste0(tempdir(),"/","demo.pptx"))
```

---

add_flextable *Add a flextable or mytable object into a document object*

Description

Add a flextable or mytable object into a document object

Usage

```
add_flextable(mydoc, ftable, echo = FALSE, code = "", landscape = FALSE)
```

Arguments

mydoc	A document object
ftable	A flextable or mytable object
echo	whether or not display R code
code	R code string
landscape	Logical. Whether or not make a landscape section.

Value

a document object

Examples

```
require(rrtable)
require(moonBook)
require(officer)
require(magrittr)
ftable=mytable(Dx~.,data=acs)
title="mytable Example"
ft=df2flextable(head(iris))
title2="df2flextable Example"
doc=read_docx()
doc %>% add_text(title=title) %>%
        add_flextable(ftable) %>%
        add_text(title=title2) %>%
        add_flextable(ft) %>%
        print(target=paste0(tempdir(),"/","mytable.docx"))
```

---

add_ggplot *Add ggplot into a document object*

Description

Add ggplot into a document object

Usage

```
add_ggplot(mydoc, code = "", top = 2)
```

Arguments

mydoc	A document object
code	R code for table
top	top position of plot

Value

a document object

Examples

```
require(rrtable)
require(ggplot2)
require(officer)
require(magrittr)
code <- "ggplot(mtcars, aes(x = mpg , y = wt)) + geom_point()"
read_pptx() %>% add_text(title="ggplot") %>% add_ggplot(code=code)
```

add_img *Add plot into a document object*

Description

Add plot into a document object

Usage

```
add_img(mydoc, plotstring, width = 7, height = 5, units = "in",
  res = 300, format = "emf", ...)
```

Arguments

mydoc	A document object
plotstring	An string of R code encoding plot
width	the width of the device.
height	the height of the device.
units	The units in which height and width are given. Can be px (pixels, the default), in (inches), cm or mm.
res	The nominal resolution in ppi which will be recorded in the bitmap file, if a positive integer. Also used for units other than the default, and to convert points to pixels.
format	plot format
...	additional arguments passed to png()

Value

a document object

Examples

```
require(officer)
require(rrtable)
require(magrittr)
require(flextable)
read_pptx() %>% add_text(title="Add image") %>% add_img("plot(mtcars)",format="png",res=300)
```

add_plot *Add plot into a document object*

Description

Add plot into a document object

Usage

```
add_plot(mydoc, plotstring, top = 2)
```

Arguments

mydoc	A document object
plotstring	String of an R code encoding a plot
top	top position of plot

Value

a document object

Examples

```
require(rrtable)
require(officer)
require(rvg)
require(magrittr)
read_pptx() %>% add_text(title="Plot") %>% add_plot("plot(iris)")
```

add_Rcode *Make a R code slide into a document object*

Description

Make a R code slide into a document object

Usage

```
add_Rcode(mydoc, code, preprocessing = "", format = "pptx")
```

Arguments

mydoc	A document object
code	A character string encoding R codes
preprocessing	A character string of R code as a preprocessing
format	desired format. choices are "pptx" or "docx"

Value

a document object

Examples

```
library(rrtable)
library(magrittr)
library(officer)
code="summary(lm(mpg~hp+wt,data=mtcars))"
read_pptx() %>% add_text(title="Regression Analysis") %>%
   add_Rcode(code) %>% print(target=paste0(tempdir(),"/","test.pptx"))
```

---

add_self *add self data to document*

Description

add self data to document

Usage

```
add_self(mydoc, data)
```

Arguments

mydoc	A document object
data	a data.frame

---

add_text *Add text to document*

Description

Add text to document

Usage

```
add_text(mydoc, title = "", text = "", code = "", echo = FALSE,
  eval = FALSE, style = "Normal", landscape = FALSE)
```

Arguments

mydoc	A document object
title	An character string as a plot title
text	text string to be added
code	An R code string
echo	logical Whether or not show R code
eval	logical whether or not evaluate the R code
style	text style
landscape	Logical. Whether or not make a landscape section.

---

add_text2hyperlink *Add hyperlink text*

Description

Add hyperlink text

Usage

```
add_text2hyperlink(mydoc, text)
```

Arguments

mydoc	A document object
text	text string to be added

---

add_title *Add title to docx file*

Description

Add title to docx file

Usage

```
add_title(x, title = "", size = 20, color = NULL, before = TRUE,
  after = TRUE)
```

Arguments

x	A document object
title	Title
size	font size
color	font color
before	Whether or not add blank paragraph before title
after	Whether or not add blank paragraph after title

---

add_title_slide *Add title slide*

Description

Add title slide

Usage

```
add_title_slide(mydoc, title = "", subtitle = "")
```

Arguments

mydoc	A document object
title	An character string as a title
subtitle	An character string as a subtitle

Examples

```
require(magrittr)
require(officer)
read_pptx() %>% add_title_slide(title="Web-based analysis with R")
```

---

data2docx *convert data to docx file*

Description

convert data to docx file

Usage

```
data2docx(...)
```

Arguments

...	arguments to be passed to data2office()

Examples

```
library(rrtable)
library(moonBook)
library(ggplot2)
data2docx(sampleData2)
```

---

data2HTML *Make a HTML5 file with a data.frame*

Description

Make a HTML5 file with a data.frame

Usage

```
data2HTML(data, preprocessing = "", path = NULL, filename = "report.HTML",
  rawDataName = NULL, rawDataFile = "rawData.RDS", vanilla = FALSE,
  echo = TRUE, showself = FALSE)
```

Arguments

data	A data.frame
preprocessing	A character string of R code
path	A name of destination file path
filename	A name of destination file
rawDataName	The name of the rawData
rawDataFile	The name of the rawData file which the data are to be read from.
vanilla	logical. Whether or not make vanilla table
echo	Logical. Whether or not show R code of plot and table
showself	Logical. Whether or not show R code for the paragraph

Examples

```
library(moonBook)
library(ztable)
library(rrtable)
library(ggplot2)
data2HTML(sampleData2,path="tmp")
```

`data2office` *convert data to pptx file*

Description

convert data to pptx file

Usage

```
data2office(data, preprocessing = "", path = NULL, filename = "Report",
  format = "pptx", width = 7, height = 5, units = "in", res = 300,
  rawDataName = NULL, rawDataFile = "rawData.RDS", vanilla = FALSE,
  echo = FALSE, landscape = FALSE, showself = FALSE)
```

Arguments

`data`	A document object
`preprocessing`	A string
`path`	A name of destination file path
`filename`	File name
`format`	desired format. choices are "pptx" or "docx"
`width`	the width of the device.
`height`	the height of the device.
`units`	The units in which height and width are given. Can be px (pixels, the default), in (inches), cm or mm.
`res`	The nominal resolution in ppi which will be recorded in the bitmap file, if a positive integer. Also used for units other than the default, and to convert points to pixels.
`rawDataName`	raw Data Name
`rawDataFile`	raw Data File
`vanilla`	logical. Whether or not make vanilla table
`echo`	logical Whether or not show R code
`landscape`	Logical. Whether or not make a landscape section.
`showself`	Logical. Whether or not show R code for the paragraph

data2pdf *Make a pdf file with a data.frame*

Description

Make a pdf file with a data.frame

Usage

```
data2pdf(data, preprocessing = "", path = NULL, filename = "report.pdf",
  rawDataName = NULL, rawDataFile = "rawData.RDS", kotex = FALSE,
  echo = TRUE, showself = FALSE)
```

Arguments

data	A data.frame
preprocessing	A character string of R code
path	A name of destination file path
filename	A path of destination file
rawDataName	The name of the rawData
rawDataFile	The name of the rawData file which the data are to be read from.
kotex	Logical. Whether or not use kotex package of latex
echo	Logical. Whether or not show R code of plot and table
showself	Logical. Whether or not show R code for the paragraph

Examples

```
library(moonBook)
library(ztable)
library(ggplot2)

data2pdf(sampleData2,path="tmp")
```

data2plotzip *Make zipped plot file with a data.frame*

Description

Make zipped plot file with a data.frame

Usage

```
data2plotzip(data, path = NULL, filename = "Plot.zip", format = "PNG",
  width = 8, height = 6, units = "in", res = 300, start = 0,
  preprocessing = "", rawDataName = NULL, rawDataFile = "rawData.RDS")
```

Arguments

data	A data.frame
path	A name of destination file path
filename	A path of destination file
format	Plot format. Choices are c("PNG","SVG","PDF")
width	A plot width
height	A plot height
units	The units in which height and width are given. Can be px (pixels, the default), in (inches), cm or mm.
res	The nominal resolution in ppi
start	Plot start number
preprocessing	A character string of R code
rawDataName	The name of the rawData
rawDataFile	The name of the rawData file which the data are to be read from.

Examples

```
library(moonBook)
library(ztable)
library(rrtable)
library(ggplot2)
data2plotzip(sampleData2,path="tmp")
```

---

data2pptx *convert data to pptx file*

Description

convert data to pptx file

Usage

```
data2pptx(...)
```

Arguments

...	arguments to be passed to data2office()

Examples

```
library(rrtable)
library(moonBook)
library(ggplot2)
data2pptx(sampleData2)
```

`df2flextable` *Convert data.frame to flextable*

Description

Convert data.frame to flextable

Usage

```
df2flextable(df, vanilla = FALSE, fontname = NULL, fontsize = 10,
  add.rownames = FALSE, even_header = "transparent",
  odd_header = "#5B7778", even_body = "#EFEFEF", odd_body = "transparent",
  vlines = TRUE, colorheader = FALSE, digits = 2,
  align_header = "center", align_body = "right", NA2space = FALSE,
  pcol = NULL, ...)
```

Arguments

`df`	A data.frame
`vanilla`	A Logical
`fontname`	Font name
`fontsize`	font size
`add.rownames`	logical. Whether or not include rownames
`even_header`	background color of even_header
`odd_header`	background color of even_header
`even_body`	background color of even_body
`odd_body`	background color of even_body
`vlines`	Logical. Whether or not draw vertical lines
`colorheader`	Logical. Whether or not use color in header
`digits`	integer indicating the number of decimal places
`align_header`	alignment of header. Expected value is one of 'left', 'right', 'center', 'justify'.
`align_body`	alignment of body. Expected value is one of 'left', 'right', 'center', 'justify'.
`NA2space`	A logical. If true, convert NA value to space
`pcol`	An integer indicating p value. If specified, convert value less than 0.01 to "< 0.001" in given column.
`...`	further arguments to be passed to flextable

Examples

```
require(flextable)
require(officer)
df2flextable(head(iris),vanilla=TRUE,colorheader=TRUE)
df2flextable(head(iris),vanilla=TRUE,digits=c(1,2,3,4))
df2flextable(head(iris),vanilla=FALSE)
df2flextable(head(iris),vanilla=FALSE,vlines=FALSE,fontsize=14)
df2flextable(head(mtcars))
```

---

df2flextable2 *Make flextable with limited width*

Description

Make flextable with limited width

Usage

```
df2flextable2(df, mincol = 0.7, maxcol = 4, ...)
```

Arguments

df	a data.frame
mincol	minimum column width in inch
maxcol	maximum column width in inch
...	further arguments to be passed to df2flextable()

---

df2RcodeTable *Make a flextable with a data.frame*

Description

Make a flextable with a data.frame

Usage

```
df2RcodeTable(df, bordercolor = "gray", format = "pptx", eval = TRUE)
```

Arguments

df	A data.frame
bordercolor	A border color name
format	desired format. choices are "pptx" or "docx"
eval	logical. Whether or not evaluate the code

Value

A flextable object

`exportCSV` *Export pptxList file to desired format*

Description

Export pptxList file to desired format

Usage

```
exportCSV(file, format = "HTML", rawDataName = NULL,
  rawDataFile = "rawData.RDS")
```

Arguments

`file`	The name of the file which the data are to be read from.
`format`	desired output format. Possible choices are one of the c("HTML","pdf","word","pptx","plotzip")
`rawDataName`	The name of the rawData
`rawDataFile`	The name of the rawData file which the data are to be read from.

`flextable2ztable` *Convert flextable to ztable*

Description

Convert flextable to ztable

Usage

```
flextable2ztable(ft, ...)
```

Arguments

`ft`	An object of classs flextable
`...`	Further argument to be passed to ztable

Value

an object of class ztable

html2latex *Convert html5 code to latex*

Description

Convert html5 code to latex

Usage

```
html2latex(df)
```

Arguments

df	A data.frame

HTMLcode2latex *Convert HTML table to latex table*

Description

Convert HTML table to latex table

Usage

```
HTMLcode2latex(data)
```

Arguments

data	a data.frame

insert_argument *replace argument of a function*

Description

replace argument of a function

Usage

```
insert_argument(code, argument, value)
```

Arguments

code	string of function call
argument	argument of function to be set
value	value to be set

`mycat` *Concatenate to file*

Description

Concatenate to file

Usage

```
mycat(..., file = "report2.Rmd")
```

Arguments

`...`	R object
`file`	A connection

`mygrep` *grep string in all files in subdirectory*

Description

grep string in all files in subdirectory

Usage

```
mygrep(x, file = "*")
```

Arguments

`x`	string
`file`	files to seek

myplot2 *Make zipped plots with a data.frame*

Description

Make zipped plots with a data.frame

Usage

```
myplot2(data, format = "PNG", width = 7, height = 7, units = "in",
  res = 300, start = 0, preprocessing = "", rawDataName = NULL,
  rawDataFile = "rawData.RDS")
```

Arguments

data	A data.frame
format	Plot format. Choices are c("PNG","SVG","PDF")
width	A plot width
height	A plot height
units	The units in which height and width are given. Can be px (pixels, the default), in (inches), cm or mm.
res	The nominal resolution in ppi
start	Plot start number
preprocessing	A character string of R code
rawDataName	The name of the rawData
rawDataFile	The name of the rawData file which the data are to be read from.

mytable2flextable *Convert mytable object to flextable*

Description

Convert mytable object to flextable

Usage

```
mytable2flextable(result, vanilla = TRUE, fontname = NULL, fontsize = 10)
```

Arguments

result	An object of class "mytable"
vanilla	A Logical.
fontname	Font name
fontsize	font size

Examples

```
require(moonBook)
require(flextable)
require(officer)
result=mytable(smoking+Dx~.,data=acs)
mytable2flextable(result)
mytable2flextable(result,vanilla=FALSE)
result=mytable(Dx~.,data=acs)
mytable2flextable(result)
mytable2flextable(result,vanilla=FALSE)
```

---

plotPDF2 *Make pdf file with a plot code*

Description

Make pdf file with a plot code

Usage

```
plotPDF2(fun, file, width = 7, height = 5, units = "in", res = 300,
  ggplot = FALSE)
```

Arguments

fun	A R code for plot
file	A path of destination file
width	A plot width
height	A plot height
units	The units in which height and width are given. Can be px (pixels, the default), in (inches), cm or mm.
res	The nominal resolution in ppi
ggplot	A logical. Set this argument true if the R code is for ggplot

---

plotPNG2 *Make png file with a plot code*

Description

Make png file with a plot code

Usage

```
plotPNG2(fun, file, width = 7, height = 7, units = "in", res = 300,
  ggplot = FALSE)
```

Arguments

fun	A R code for plot
file	A path of destination file
width	A plot width
height	A plot height
units	The units in which height and width are given. Can be px (pixels, the default), in (inches), cm or mm.
res	The nominal resolution in ppi
ggplot	A logical. Set this argument true if the R code is for ggplot

---

plotSVG2 *Make SVG file with a plot code*

Description

Make SVG file with a plot code

Usage

```
plotSVG2(fun, file, width = 7, height = 7, ggplot = FALSE)
```

Arguments

fun	A R code for plot
file	A path of destination file
width	A plot width
height	A plot height
ggplot	A logical. Set this argument true if the R code is for ggplot

---

pptxList *Server function of pptxList shiny module*

Description

Server function of pptxList shiny module

Usage

```
pptxList(input, output, session, data = reactive(""),
  preprocessing = reactive(""))
```

Arguments

input	input
output	output
session	session
data	A data object
preprocessing	A character string of R code

---

pptxListInput *UI of pptxList shiny module*

Description

UI of pptxList shiny module

Usage

```
pptxListInput(id)
```

Arguments

id	A string

Examples

```
library(shiny)
library(ggplot2)
library(editData)
library(moonBook)
library(readr)
if(interactive()){
ui=fluidPage(
    pptxListInput("pptxlist")
    )
server=function(input,output,session){
    mydf=callModule(pptxList,"pptxlist")
}
shinyApp(ui,server)
}
```

Rcode2df *Make a data.frame with character strings encoding R code*

Description

Make a data.frame with character strings encoding R code

Usage

```
Rcode2df(result, preprocessing, eval = TRUE)
```

Arguments

result	character strings encoding R code
preprocessing	character strings encoding R code as a preprocessing
eval	logical. Whether or not evaluate the code

Rcode2flextable *Make a flextable object with character strings encoding R code*

Description

Make a flextable object with character strings encoding R code

Usage

```
Rcode2flextable(result, preprocessing = "", format = "pptx", eval = TRUE)
```

Arguments

result	character strings encoding R code
preprocessing	character strings encoding R code as a preprocessing
format	desired format. choices are "pptx" or "docx"
eval	logical. Whether or not evaluate the code

Examples

```
Rcode2flextable("str(mtcars)\nsummary(mtcars)",eval=FALSE)
```

readComment *Read comment from a file*

Description

Read comment from a file

Usage

```
readComment(filename, comment = "#")
```

Arguments

filename	A path for destination file
comment	A string used to identify comments

replace_argument *replace argument of a function*

Description

replace argument of a function

Usage

```
replace_argument(substring, argument, value)
```

Arguments

substring	string of function call
argument	argument of function to be set
value	value to be set

roundDf *Convert numeric columns of data.frame to character*

Description

Convert numeric columns of data.frame to character

Usage

```
roundDf(df, digits = 2)
```

Arguments

df	A data.frame
digits	integer indicating the number of decimal places

Examples

```
roundDf(iris,digits=c(1,2,3,4))
roundDf(mtcars,digits=2)
```

sampleData2 *Sample data for pptxList A dataset containing five objects for reproducible research*

Description

Sample data for pptxList A dataset containing five objects for reproducible research

Usage

```
sampleData2
```

Format

A data frame with 5 rows and three columns

type type of data

title title of data

code R code of data

sampleData3 *Sample data for pptxList A dataset containing five objects for reproducible research*

Description

Sample data for pptxList A dataset containing five objects for reproducible research

Usage

```
sampleData3
```

Format

A data frame with 5 rows and three columns

type type of data

title title of data

text text

code R code of data

option option for R code

set_argument *set argument of a function*

Description

set argument of a function

Usage

```
set_argument(code, argument, value = TRUE)
```

Arguments

code	string of function call
argument	argument of function to be set
value	value to be set

Examples

```
code="df2flextable( ) "
code="df2flextable(vanilla=TRUE,head(iris[1:10,]))"
code="df2flextable(mtcars)"
code="df2flextable(sampleData3)"
code="df2flextable(head(iris[1:10,]),vanilla=TRUE)"
set_argument(code,"vanilla",FALSE)
```

tensiSplit *Split strings with desired length with exdent*

Description

Split strings with desired length with exdent

Usage

```
tensiSplit(string, size = 82, exdent = 3)
```

Arguments

string	String
size	desired length
exdent	exdent

Value

splitted character vector

writeCSVComment *Write a csv file with comment*

Description

Write a csv file with comment

Usage

```
writeCSVComment(data, file, metadata = "", comment = "#")
```

Arguments

data	A data.frame
file	A path for destination file
metadata	A character string representing R codes as a preprocessing
comment	A string used to identify comments

ztable2 *Make ztable with desired width*

Description

Make ztable with desired width

Usage

```
ztable2(df, cwidth = NULL, width = 80, ...)
```

Arguments

df	a data.frame
cwidth	desired column width
width	desired table width in column
...	further argument to be passed to ztable()

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