Package 'rrtable'

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Type Package

Title Reproducible Research with a Table of R Codes

Version 0.3.4

Imports stringr, ggplot2 (>= 2.2.0), officer (>= 0.4.1), purrr (>= 0.2.4), flextable (>= 0.4.4), rvg, magrittr, devEMF, moonBook (>= 0.1.8), rmarkdown, shiny, editData, shinyWidgets, ggpubr, rlang, 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

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VignetteBuilder knitr

Suggests knitr

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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

```
## Not run:
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)
doc=read_pptx()
doc %>% add_text(title=title) %>%
        add_2flextables(ft1,ft2)

## End(Not run)
```

---

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

```
## Not run:
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)
read_docx() %>% add_text(title="Two ggplots") %>% add_2ggplots(plot1=plot1,plot2=plot2)

## End(Not run)
```

---

add_2plots *Add two plots into a document object*

Description

Add two plots into a document object

Usage

```
add_2plots(
  mydoc,
  plotstring1,
  plotstring2,
  plottype = "auto",
  width = NULL,
  height = NULL,
  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
plottype	character One of c("auto","plot","ggplot")
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)
require(ggplot2)
plotstring1="plot(iris)"
plotstring2="ggplot(iris,aes(x=Sepal.Length,y=Sepal.Width))+geom_point()"
read_pptx() %>% add_text(title="Two plots") %>% add_2plots(plotstring1,plotstring2)
read_docx() %>% add_text(title="Two plots") %>% add_2plots(plotstring1,plotstring2)
```

---

add_anyplot *Add a ggplot or a plot to the Microsoft Office Document*

Description

Add a ggplot or a plot to the Microsoft Office Document

Usage

```
add_anyplot(
  doc,
  x = NULL,
  plottype = "auto",
  left = 1,
  top = 2,
  width = 8,
  height = 5.5
)
```

Arguments

doc	A document object
x	An object of class ggplot2 or a string encoding plot or ggplot
plottype	character One of c("auto","plot","ggplot","emf")
left	left margin
top	top margin
width	desired width of the plot
height	desired height of the plot

---

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

```
## Not run:
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)

## End(Not run)
```

---

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)
read_docx() %>% add_text(title="ggplot") %>% add_ggplot(code=code)
```

add_image *Add plot into a document object*

Description

Add plot into a document object

Usage

```
add_image(
  mydoc,
  x = NULL,
  preprocessing = "",
  left = 1,
  top = 2,
  width = 8,
  height = 5.5,
  units = "in",
  res = 300,
  format = "emf",
  ...
)
```

Arguments

mydoc	A document object
x	An string of R code encoding plot
preprocessing	A string of R code or ""
left	left margin
top	top margin
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(ggplot2)
read_pptx() %>% add_text(title="Add image") %>% add_image("plot(iris)")
read_docx() %>% add_text(title="Add image") %>% add_image("plot(1:10)",format="png")
```

---

add_plot *Add plot into a document object*

Description

Add plot into a document object

Usage

```
add_plot(mydoc, plotstring, width = 6, height = 6, top = 2)
```

Arguments

mydoc	A document object
plotstring	String of an R code encoding a plot
width	width of plot
height	height of 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)")
read_docx() %>% 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, format = "pptx")
```

Arguments

mydoc	A document object
code	A character string encoding R codes
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)
```

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")
```

as.mynumeric *coerce an object of type "numeric"*

Description

coerce an object of type "numeric"

Usage

```
as.mynumeric(x)
```

Arguments

x	A vector

Examples

```
x=c("1,200","2","3.5")
x=factor(3:1)
x=c(1:3,"tt")
as.mynumeric(x)
```

chooser *Server function of chooser Module*

Description

Server function of chooser Module

Usage

```
chooser(
  input,
  output,
  session,
  leftChoices,
  rightChoices = reactive(c()),
  size = reactive(0),
  width = reactive(130)
)
```

Arguments

input	input
output	output
session	session
leftChoices	choices for left column
rightChoices	choices for right column
size	number of column lines to be displayed
width	width of left and right columns in pixel

---

chooser2 *Server function of chooser2 Module*

Description

Server function of chooser2 Module

Usage

```
chooser2(
  input,
  output,
  session,
  leftChoices,
  rightChoices = reactive(c()),
  size = reactive(0),
  width = reactive(130)
)
```

Arguments

input	input
output	output
session	session
leftChoices	choices for left column
rightChoices	choices for right column
size	number of column lines to be displayed
width	width of left and right columns in pixel

chooser2UI *UI of chooser2 Module Add 'all select' and 'reset' button to chooser module*

Description

UI of chooser2 Module Add 'all select' and 'reset' button to chooser module

Usage

```
chooser2UI(id)
```

Arguments

id	id

chooserInput *Chooser Input*

Description

Chooser Input

Usage

```
chooserInput(
  inputId,
  leftLabel,
  rightLabel,
  leftChoices,
  rightChoices,
  size = 5,
  multiple = FALSE,
  width = 100
)
```

Arguments

inputId	input Id
leftLabel	Label for left column
rightLabel	Label for right column
leftChoices	choices for left column
rightChoices	choices for right column
size	number of column lines to be displayed
multiple	logical enable multiple selection
width	width of left and right columns in pixel

chooserUI *UI of chooser Module*

Description

UI of chooser Module

Usage

```
chooserUI(id)
```

Arguments

id	id

code2docx *Save plot/ggplot code to Microsoft Powerpoint format*

Description

Save plot/ggplot code to Microsoft Powerpoint format

Usage

```
code2docx(...)
```

Arguments

...	further arguments to be passed to code2office

Examples

```
## Not run:
code2docx(plot(iris))
require(ggplot2)
gg=ggplot(data=mtcars,aes(x=wt,y=mpg))+geom_point()
code2docx(ggobj=gg)

## End(Not run)
```

code2office *Save plot/ggplot code to Microsoft Powerpoint format*

Description

Save plot/ggplot code to Microsoft Powerpoint format

Usage

```
code2office(
  ...,
  ggobj = NULL,
  target = "Report",
  append = FALSE,
  title = "",
  type = "pptx",
  preprocessing = "",
  plottype = "auto",
  echo = FALSE,
  parallel = FALSE,
  left = 1,
  top = 1,
  width = NULL,
  height = NULL,
  aspectr = NULL
)
```

Arguments

...	Further argument to be passed to function dml()
ggobj	a ggplot object
target	name of output file
append	logical value
title	Optional character vector of plot title
type	"pptx" or "docx"
preprocessing	A string of R code or ""
plottype	character One of c("auto","plot","ggplot","emf")
echo	logical. If true, show code.
parallel	logical. If true, add two plots side by side
left	left margin
top	top margin
width	desired width of the plot
height	desired height of the plot
aspectr	desired aspect ratio of the plot

Examples

```
## Not run:
code2office(plot(iris))
require(ggplot2)
gg=ggplot(data=mtcars,aes(x=wt,y=mpg))+geom_point()
code2office(ggobj=gg)

## End(Not run)
```

---

code2pptx *Save plot/ggplot code to Microsoft Powerpoint format*

Description

Save plot/ggplot code to Microsoft Powerpoint format

Usage

```
code2pptx(...)
```

Arguments

...	further arguments to be passed to code2office

Examples

```
## Not run:
code2pptx(plot(iris))
require(ggplot2)
gg=ggplot(data=mtcars,aes(x=wt,y=mpg))+geom_point()
code2pptx(ggobj=gg)

## End(Not run)
```

---

data2docx *convert data to docx file*

Description

convert data to docx file

Usage

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

Arguments

...	arguments to be passed to data2office()

Examples

```
## Not run:
library(rrtable)
library(moonBook)
library(ggplot2)
data2docx(sampleData2,echo=TRUE)

## End(Not run)
```

---

data2docx2 *Make a word file with a data.frame*

Description

Make a word file with a data.frame

Usage

```
data2docx2(...)
```

Arguments

...	further arguments to be passed to data2HTML

---

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

Description

Make a HTML5 file with a data.frame

Usage

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

```
  echo = TRUE,
  showself = FALSE,
  out = NULL
)
```

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.
type	character "HTML" or "pdf"
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
out	An object or NULL

Examples

```
## Not run:
library(moonBook)
library(rrtable)
library(ggplot2)
data2HTML(sampleData2)

## End(Not run)
```

---

data2office *convert data to pptx file*

Description

convert data to pptx file

Usage

```
data2office(
  data,
  preprocessing = "",
  path = ".",
  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,
  out = NULL
)
```

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
out	An object or NULL

---

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

Description

Make a pdf file with a data.frame

Usage

```
data2pdf(...)
```

Arguments

...	further arguments to be passed to data2HTML

Examples

```
library(moonBook)
library(ztable)
library(ggplot2)
## Not run:
data2pdf(sampleData2)

## End(Not run)
```

---

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

Description

Make zipped plot file with a data.frame

Usage

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

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.
out	An object or NULL

Examples

```
## Not run:
library(moonBook)
library(ztable)
library(rrtable)
library(ggplot2)
data2plotzip(sampleData2,path="tmp")

## End(Not run)
```

---

data2pptx *convert data to pptx file*

Description

convert data to pptx file

Usage

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

Arguments

...	arguments to be passed to data2office()

Examples

```
## Not run:
library(rrtable)
library(moonBook)
library(ggplot2)
data2pptx(sampleData2,echo=TRUE)

## End(Not run)
```

data2pptx2 *Make a Powerpoint file with a data.frame*

Description

Make a Powerpoint file with a data.frame

Usage

```
data2pptx2(...)
```

Arguments

...	further arguments to be passed to data2HTML

df2flextable *Convert data.frame to flextable*

Description

Convert data.frame to flextable

Usage

```
df2flextable(
  df,
  vanilla = FALSE,
  fontname = NULL,
  fontsize = 12,
  add.rownames = FALSE,
  even_header = "transparent",
  odd_header = "#5B7778",
  even_body = "#EFEFEF",
  odd_body = "transparent",
  vlines = TRUE,
  colorheader = FALSE,
  digits = 2,
  digitp = 3,
  align_header = "center",
  align_body = "right",
  align_rownames = "left",
  NA2space = TRUE,
  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
digitp	integer indicating the number of decimal places of p values
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'.
align_rownames	alignment of rownames. 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)
## Not run:
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/2000),digits=3,pcol=8,digitp=4,add.rownames=TRUE)

## End(Not run)
```

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.

file2docx *read data file and make a docx file*

Description

read data file and make a docx file

Usage

```
file2docx(file, selected = NULL, ...)
```

Arguments

file	The name of the file which the data are to be read from.
selected	A numeric vector or NULL(default). If specified, only selected data are printed.
...	Further argument to be passed to data2docx()

file2docx2 *read data file and make a docx file with Rmd file*

Description

read data file and make a docx file with Rmd file

Usage

```
file2docx2(file, selected = NULL, ...)
```

Arguments

file	The name of the file which the data are to be read from.
selected	A numeric vector or NULL(default). If specified, only selected data are printed.
...	Further argument to be passed to data2docx()

file2HTML *read data file and make a HTML file*

Description

read data file and make a HTML file

Usage

```
file2HTML(file, selected = NULL, ...)
```

Arguments

file	The name of the file which the data are to be read from.
selected	A numeric vector or NULL(default). If specified, only selected data are printed.
...	Further argument to be passed to data2HTML()

file2pdf *read data file and make a pdf file*

Description

read data file and make a pdf file

Usage

```
file2pdf(file, selected = NULL, ...)
```

Arguments

file	The name of the file which the data are to be read from.
selected	A numeric vector or NULL(default). If specified, only selected data are printed.
...	Further argument to be passed to data2pdf()

file2plotzip *read data file and make a zip file with plots*

Description

read data file and make a zip file with plots

Usage

```
file2plotzip(file, selected = NULL, ...)
```

Arguments

file	The name of the file which the data are to be read from.
selected	A numeric vector or NULL(default). If specified, only selected data are printed.
...	Further argument to be passed to data2plotzip()

file2pptx *read data file and make a pptx file*

Description

read data file and make a pptx file

Usage

```
file2pptx(file, selected = NULL, ...)
```

Arguments

file	The name of the file which the data are to be read from.
selected	A numeric vector or NULL(default). If specified, only selected data are printed.
...	Further argument to be passed to data2pptx()

file2pptx2 *read data file and make a pptx file with Rmd file*

Description

read data file and make a pptx file with Rmd file

Usage

```
file2pptx2(file, selected = NULL, ...)
```

Arguments

file	The name of the file which the data are to be read from.
selected	A numeric vector or NULL(default). If specified, only selected data are printed.
...	Further argument to be passed to data2pptx()

flextable2ztable *Convert flextable to ztable*

Description

Convert flextable to ztable

Usage

```
flextable2ztable(ft, type = "html", ...)
```

Arguments

ft	An object of class flextable
type	"html" or "latex"
...	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

image2docx *Save plot/ggplot to Microsoft Word format*

Description

Save plot/ggplot to Microsoft Word format

Usage

```
image2docx(...)
```

Arguments

...	further arguments to be passed to image2office

Examples

```
## Not run:
require(ggplot2)
x<-ggplot(iris,aes(x=Sepal.Length))+geom_histogram()
image2docx(x)
image2docx(x="plot(iris)",title="A ggplot",append=TRUE)
p2="ggplot(iris,aes(x=Sepal.Length,y=Sepal.Width))+geom_point()"
image2docx(p2,append=TRUE)

## End(Not run)
```

image2office *Save plot/ggplot as image to Microsoft Powerpoint format*

Description

Save plot/ggplot as image to Microsoft Powerpoint format

Usage

```
image2office(
  x,
  target = "Report",
  append = FALSE,
  title = "",
  type = "pptx",
  preprocessing = "",
  left = 1,
  top = 1,
  width = 8,
  height = 5.5
)
```

Arguments

x	A string vector encoding plot or ggplot
target	name of output file
append	logical value
title	Optional character vector of plot title
type	"pptx" or "docx"
preprocessing	A string of R code or ""
left	left margin
top	top margin
width	desired width of the plot
height	desired height of the plot

Examples

```
## Not run:
require(ggplot2)
image2pptx("ggplot(data=iris,aes(x=Sepal.Length))+geom_density()")

## End(Not run)
```

image2pptx *Save plot/ggplot to Microsoft Powerpoint format*

Description

Save plot/ggplot to Microsoft Powerpoint format

Usage

```
image2pptx(...)
```

Arguments

...	further arguments to be passed to image2office

Examples

```
## Not run:
require(ggplot2)
x<-ggplot(iris,aes(x=Sepal.Length))+geom_histogram()
image2pptx(x)
x="plot(iris)"
image2pptx(x,title="A plot",append=TRUE)
p2="ggplot(iris,aes(x=Sepal.Length,y=Sepal.Width))+geom_point()"
image2pptx(p2,append=TRUE)

## End(Not run)
```

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

is_ggplot *Reports whether plotstring encode a ggplot object*

Description

Reports whether plotstring encode a ggplot object

Usage

```
is_ggplot(plotstring)
```

Arguments

plotstring	A character

Examples

```
require(ggplot2)
is_ggplot("plot(iris)")
is_ggplot("ggplot(iris,aes(x=Sepal.Length))+geom_histogram()")
```

is_ggsurvplot *Reports whether plotstring encode a ggsurvplot object*

Description

Reports whether plotstring encode a ggsurvplot object

Usage

```
is_ggsurvplot(x)
```

Arguments

x	A character encoding a plot

mycat *Concatenate to file*

Description

Concatenate to file

Usage

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

Arguments

...	R object
file	A connection

myFlextable *Make flextable with a data.frame*

Description

Make flextable with a data.frame

Usage

```
myFlextable(df, numericCol = NULL)
```

Arguments

df	A data.frame
numericCol	Numeric. Columns to be treated as numeric

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,
  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
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

```
## Not run:
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)

## End(Not run)
```

---

open_doc *Make/open office document with file name*

Description

Make/open office document with file name

Usage

```
open_doc(target = "Report", type = "pptx", append = FALSE)
```

Arguments

target	name of output file
type	"pptx" or "docx"
append	logical

p2character *Change p value to string*

Description

Change p value to string

Usage

```
p2character(x, digits = 3)
```

Arguments

x	A numeric vector
digits	integer indicating the number of decimal places

Examples

```
x=c(0.000001,NA,0.1234567,0.00123,0.000123)
p2character(x)
p2character(x,digits=4)
```

pickerInput3 *Side by side pickerInput*

Description

Side by side pickerInput

Usage

```
pickerInput3(...)
```

Arguments

...	Further arguments to be passed to pickerInput

plot2docx *Save plot/ggplot to Microsoft Word format*

Description

Save plot/ggplot to Microsoft Word format

Usage

```
plot2docx(...)
```

Arguments

...	further arguments to be passed to plot2office

Examples

```
## Not run:
require(ggplot2)
x<-ggplot(iris,aes(x=Sepal.Length))+geom_histogram()
plot2docx(x)
plot2docx(x,title="A ggplot",append=TRUE)
p2=ggplot(iris,aes(x=Sepal.Length,y=Sepal.Width))+geom_point()
plot2docx(p2,append=TRUE)
plot2docx(x="plot(iris)",append=TRUE,title="plot(iris)")
plot2docx(x="ggplot(iris,aes(x=Sepal.Length))+geom_histogram()",append=TRUE)

## End(Not run)
```

plot2office *Save plot/ggplot to Microsoft Powerpoint format*

Description

Save plot/ggplot to Microsoft Powerpoint format

Usage

```
plot2office(
  x = NULL,
  target = "Report",
  append = FALSE,
  title = "",
  type = "pptx",
  preprocessing = "",
  plottype = "auto",
```

```
  echo = FALSE,
  parallel = FALSE,
  left = 1,
  top = 1,
  width = NULL,
  height = NULL,
  aspectr = NULL,
  out = NULL
)
```

Arguments

x	An object of class ggplot2 or a string vector encoding plot or ggplot
target	name of output file
append	logical value
title	Optional character vector of plot title
type	"pptx" or "docx"
preprocessing	A string of R code or ""
plottype	character One of c("auto","plot","ggplot","emf")
echo	logical. If true, show code.
parallel	logical. If true, add two plots side by side
left	left margin
top	top margin
width	desired width of the plot
height	desired height of the plot
aspectr	desired aspect ratio of the plot
out	An object or NULL

Examples

```
## Not run:
require(ggplot2)
x=c("plot(iris)","ggplot(mtcars,aes(x=hp,y=mpg))+geom_point()")
plot2office(x,title="2 plots",parallel=TRUE)
plot2office(x,title="2 plots",parallel=TRUE,echo=TRUE,append=TRUE)
plot2office(x,parallel=TRUE,echo=TRUE,append=TRUE)

## End(Not run)
```

plot2pptx *Save plot/ggplot to Microsoft Powerpoint format*

Description

Save plot/ggplot to Microsoft Powerpoint format

Usage

```
plot2pptx(...)
```

Arguments

...	further arguments to be passed to plot2office

Examples

```
## Not run:
require(ggplot2)
x<-ggplot(iris,aes(x=Sepal.Length))+geom_histogram()
plot2pptx(x)
plot2pptx(x,title="A ggplot",append=TRUE)
p2=ggplot(iris,aes(x=Sepal.Length,y=Sepal.Width))+geom_point()
plot2pptx(p2,append=TRUE)
plot2pptx(x=c("plot(iris)","ggplot(iris,aes(x=Sepal.Length))+geom_histogram()"),
    append=TRUE,title=c("plot","ggplot"),echo=TRUE)

## End(Not run)
```

plotPNG2 *Make png file with a plot code*

Description

Make png file with a plot code

Usage

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

Arguments

x	A R code string for plot
file	A path of destination file
type	A character
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

---

`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, eval = TRUE)
```

Arguments

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

Rcode2df2 *Make a data.frame with character strings encoding R code*

Description

Make a data.frame with character strings encoding R code

Usage

```
Rcode2df2(result, eval = TRUE)
```

Arguments

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

Rcode2docx *Save R code to Microsoft Word format*

Description

Save R code to Microsoft Word format

Usage

```
Rcode2docx(...)
```

Arguments

...	further arguments to be passed to plot2office

Examples

```
## Not run:
code="summary(lm(mpg~hp+wt,data=mtcars))"
Rcode2docx(code=code,title="R code to Word")

## End(Not run)
```

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, format = "pptx", eval = TRUE)
```

Arguments

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

Examples

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

Rcode2office *Make R code slide*

Description

Make R code slide

Usage

```
Rcode2office(
  code,
  preprocessing = "",
  title = "",
  type = "pptx",
  target = "Report",
  append = FALSE
)
```

Arguments

code	A character string encoding R codes
preprocessing	A character string of R code as a preprocessing
title	A character
type	desired format. choices are "pptx" or "docx"
target	name of output file
append	logical

Examples

```
## Not run:
code="summary(lm(mpg~hp+wt,data=mtcars))"
Rcode2office(code=code)

## End(Not run)
```

`Rcode2pptx` *Save R code to Microsoft Powerpoint format*

Description

Save R code to Microsoft Powerpoint format

Usage

```
Rcode2pptx(...)
```

Arguments

`...`	further arguments to be passed to plot2office

Examples

```
## Not run:
code="summary(lm(mpg~hp+wt,data=mtcars))"
Rcode2pptx(code=code,title="R code to pptx")

## End(Not run)
```

`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

readCSVComment *Read a csv file with comment*

Description

Read a csv file with comment

Usage

```
readCSVComment(file)
```

Arguments

file	A path for destination file

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)
```

table2docx *Export data.frame or statistical output to Microsoft Word format*

Description

Export data.frame or statistical output to Microsoft Word format

Usage

```
table2docx(...)
```

Arguments

...	further arguments to be passed to table2office

Examples

```
## Not run:
require(moonBook)
x=mytable(Dx~.,data=acs)
table2docx(x)
table2docx(head(iris),title="head(iris)",append=TRUE,vanilla=FALSE)
fit=lm(mpg~wt*hp,data=mtcars)
table2docx(fit,title="Linear regression",append=TRUE,vanilla=TRUE)
fit2=aov(yield ~ block + N * P + K, data = npk)
table2docx(fit2,title="Linear regression",append=TRUE,vanilla=TRUE)

## End(Not run)
```

table2office *Export data.frame or statistical output to a table in Microsoft Office*

Description

Export data.frame or statistical output to a table in Microsoft Office

Usage

```
table2office(
  x = NULL,
  target = "Report",
  append = FALSE,
  title = "",
  vanilla = FALSE,
  echo = FALSE,
  add.rownames = TRUE,
```

```
  preprocessing = "",
  type = "pptx",
  landscape = FALSE,
  left = 1,
  top = 1
)
```

Arguments

x	An object or string
target	name of output file
append	logical value
title	Optional character of plot title
vanilla	A logical
echo	logical
add.rownames	logical
preprocessing	A character string
type	"pptx" or "docx"
landscape	logical
left	left margin
top	top margin

---

table2pptx *Export data.frame or statistical output to Microsoft Powerpoint format*

Description

Export data.frame or statistical output to Microsoft Powerpoint format

Usage

```
table2pptx(...)
```

Arguments

...	further arguments to be passed to table2office

Examples

```
## Not run:
require(moonBook)
x="mytable(Dx~.,data=acs)"
table2pptx(x,title="mytable object",echo=TRUE)
table2pptx("head(iris)",title="data.Frame",append=TRUE,vanilla=FALSE,echo=TRUE)
x="fit<-lm(mpg~wt*hp,data=mtcars);fit"
table2pptx(x,title="Linear regression",append=TRUE,vanilla=TRUE,echo=TRUE)
fit2="aov(yield ~ block + N * P + K, data = npk)"
table2pptx(fit2,title="ANOVA",append=TRUE,vanilla=TRUE,echo=TRUE)

## End(Not run)
```

`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

`unsink` *Remove File and sink()*

Description

Remove File and sink()

Usage

```
unsink(temp)
```

Arguments

`temp`	character file name

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()

`ztable2flextable` *Convert ztable to flextable*

Description

Convert ztable to flextable

Usage

```
ztable2flextable(z, ...)
```

Arguments

z	An object of class ztable
...	Further argument to be passed to df2flextable

Value

an object of class flextable

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