Package 'eoffice'

October 13, 2022

| Type | Package |
|--------|---|
| | Export or Graph and Tables to 'Microsoft' Office and Import Figures and Tables |
| Versio | on 0.2.2 |
| | iption Provides wrap functions to export and import graphics and data frames in R to 'microsoft' office. And This package also provide write out figures with lots of different formats. Since people may work on the platform without GUI support, the package also provide function to easily write out figures to lots of different type of formats. Now this package provide function to extract colors from all types of figures and pdf files. |
| Licens | se GPL-2 |
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| Repos | sitory CRAN |
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| R to | ppics documented: |
| | .getext |
| | |

2 .getfilename

| .getext | | get the si | ıffix nam | e | | | | | | | | | | | |
|---------|--------------|------------|-----------|---|-------|------|------|-------|---|---|-------|---|---|---|----|
| Index | | | | | | | | | | | | | | | 15 |
| | toxlsx | | | | • • • | | | • | • | • | • | • | • | • | 13 |
| | totable | | | | | | | | | | | | | | 12 |
| | topptx | | | | | | | | | | | | | | 11 |
| | tohtml | | | | | | | | | | | | | | 10 |
| | tofigure | | | | | | | | | | | | | | 10 |
| | | | | | | | | | | | | | | | 8 |
| | todocx | | | | | | | | | | | | | | 7 |
| | inpptx | | | | | | | | | | | | | | 7 |
| | inoffice | | | | | | | | | | | | | | 6 |
| | infigure | | | | | | | | | | | | | | 5 |
| | indocx | | | | | | | | | | | | | | 4 |
| | convertplot | | | | | | | | | | | | | | 4 |
| | col2hex | | | | | | | | | | | | | | 3 |
| | .theme_blank | | | | | | | | | | | | | | 3 |

Description

get the suffix name

Usage

.getext(x)

Arguments

x filename

.getfilename

get the prefix name

Description

get the prefix name

Usage

.getfilename(x)

Arguments

Х

filename

.setcolnames 3

.setcolnames

set first row as column name

Description

set first row as column name

Usage

```
.setcolnames(file)
```

Arguments

file

input data frame

Author(s)

Kai Guo

.theme_blank

blank theme

Description

blank theme

Usage

.theme_blank()

col2hex

col2hex gplots

Description

col2hex gplots

Usage

col2hex(cname)

Arguments

cname

color name

4 indocx

convertplot

convert basic plot to ggplot object

Description

convert basic plot to ggplot object

Usage

```
convertplot(exp)
```

Arguments

exp

expression formula of basic plot

Value

ggplot object

Author(s)

Kai Guo

Examples

```
p <- convertplot(plot(1:10))
class(p)
print(p)</pre>
```

indocx

read table from docx

Description

read table from docx

Usage

```
indocx(filename, header = FALSE)
```

Arguments

filename

input filename

header

use first row as column name

infigure 5

Author(s)

Kai Guo

Examples

```
totable(t.test(wt ~ am, mtcars), filename = file.path(tempdir(), "mtcars.docx"))
tabs <- indocx(filename = file.path(tempdir(), "mtcars.docx"), header = TRUE)
tabs</pre>
```

infigure

import figures and extract the colors used in the figures

Description

import figures and extract the colors used in the figures

Usage

```
infigure(
  filename,
  format = NULL,
  exclude_col = NULL,
  topn = 10,
  showfig = FALSE,
  showcol = FALSE,
  savegg = FALSE,
  density = 300,
  pages = NULL
)
```

Arguments

input filename filename format format of input file vector of colors to be excluded from the analysis exclude_col display the most frequent colors topn display the figure or not (default: FALSE) showfig showcol display extracted colors or not (default: FALSE) save the figure as ggplot2 object or not (default: FALSE) savegg resolution to render pdf density

pages integer vector with page numbers (pdf file). Defaults to all pages.

Author(s)

Kai Guo

6 inoffice

Examples

```
if(interactive()){
require(ggplot2)
p <- ggplot(mtcars, aes(mpg, disp, color = factor(cyl))) + geom_point()
tofigure(p,filename = file.path(tempdir(), "mtcars.pdf"))
pp <- infigure(filename = file.path(tempdir(), "mtcars.pdf"), exclude_col="white")
pp
}</pre>
```

inoffice

read tables from ppt and word

Description

read tables from ppt and word

Usage

```
inoffice(filename, format = NULL, header = TRUE)
```

Arguments

filename input filename format pptx or docx

header use first row as column name

Author(s)

Kai Guo

Examples

```
## use tempdir for the example
totable(t.test(wt ~ am, mtcars), filename = file.path(tempdir(), "mtcars.docx"))
tabs <- inoffice(filename = file.path(tempdir(), "mtcars.docx"), header = TRUE)
tabs</pre>
```

inpptx 7

inpptx

read table from pptx

Description

read table from pptx

Usage

```
inpptx(filename, header = FALSE)
```

Arguments

filename

input filename

header

use first row as column name

Author(s)

Kai Guo

Examples

```
totable(t.test(wt ~ am, mtcars), filename = file.path(tempdir(), "mtcars.pptx"))
tabs <- inpptx(filename = file.path(tempdir(), "mtcars.pptx"), header = TRUE)
tabs</pre>
```

todocx

export figure to docx

Description

```
export figure to docx
```

```
todocx(
  figure = NULL,
  filename = NULL,
  title = "",
  width = 6,
  height = 6,
  append = FALSE,
  devsize = FALSE,
  units = "in"
)
```

8 toffice

Arguments

figure plot figure function filename output filename title title for the figure width width of the output figure height height of the output figure append or not append Boolean value show use device size or not (default = FALSE) devsize units the units in which to return the value – inches, cm, or pixels (device units)

Author(s)

Kai Guo

Examples

```
if(interactive()){
plot(mtcars$mpg, mtcars$disp)
todocx(filename = file.path(tempdir(), "mtcars.docx"))
## use ggplot2
ggplot(mtcars, aes(mpg, disp, color = factor(cyl))) + geom_point()
todocx(filename = file.path(tempdir(), "mtcars.docx"), height = 6, width = 4)
}
```

toffice

export graph to MS office

Description

export graph to MS office

```
toffice(
  figure = NULL,
  format = "pptx",
  filename = "temp.pptx",
  nr = 1,
  nc = 1,
  irow = 1,
  icol = 1,
  onsame = FALSE,
  title = "",
  left = 0.15,
  top = 0.15,
```

toffice 9

```
append = FALSE,
width = 4,
height = 4,
devsize = FALSE,
units = "in"
)
```

Arguments

figure plot figure function format file format filename output filename two numbers to indicate the figures will be drawn in an nr-by-nc array on the nr, nc device by columns or rows, respectively. irow, icol two number to indicate which row or column for the figure to be drawn Boolean value show to draw on same slide or not onsame title title for the figure two numbers which gives the number of lines of margin to be specified on the left, top left and right sides of the plot append append or not width width of the output figure height height of the output figure

Boolean value show use device size or not (default = FALSE)

the units in which to return the value – inches, cm, or pixels (device units)

Author(s)

Kai Guo

devsize

units

Examples

```
if(interactive()){
plot(mtcars$mpg, mtcars$disp)
toffice(filename = file.path(tempdir(), "mtcars.pptx"), format = "pptx")
## use ggplot2
ggplot(mtcars, aes(mpg, disp, color = factor(cyl))) + geom_point()
toffice(filename = file.path(tempdir(), "mtcars.pptx"), format = "pptx")
}
```

10 tohtml

tofigure

output figures to different formats

Description

output figures to different formats

Usage

```
tofigure(figure, format = NULL, filename = "temp.pdf")
```

Arguments

figure output figure function, set NULL output the current figure

format output format (could be ingored)

filename output filename with different format as suffix

Author(s)

Kai Guo

Examples

```
require(ggplot2)
p <- ggplot(mtcars, aes(mpg, disp, color = factor(cyl))) + geom_point()
tofigure(p,filename = file.path(tempdir(), "mtcars.pdf"))
## or use ggplot directly
tofigure(ggplot(mtcars, aes(mpg, disp, color = factor(cyl))) +
geom_point(), filename = file.path(tempdir(), "mtcars.eps"))

## if you use basic plot function or other plot function you
## need first use convertplot to convert it to ggplot object
## when you are working on the platform without GUI
p <- convertplot(plot(1:10))
tofigure(p, filename = file.path(tempdir(), "mtcars.pdf"))
topptx(p, filename = file.path(tempdir(), "mtcars.pptx"))</pre>
```

tohtml

export as plotly html (only support ggplot2 object)

Description

export as plotly html (only support ggplot2 object)

topptx 11

Usage

```
tohtml(figure, filename = "temp.html", save = TRUE)
```

Arguments

figure output figure function, set NULL output the current figure filename output format (could be ingored) save save figure or not (default: TRUE)

Author(s)

Kai Guo

Examples

```
if(interactive()){
  require(ggplot2)
  p <- ggplot(mtcars, aes(mpg, disp, color = factor(cyl))) + geom_point()
  tohtml(p,filename = file.path(tempdir(), "mtcars.html"))
## or use ggplot directly
  ggplot(mtcars, aes(mpg, disp, color = factor(cyl))) +
  geom_point()
  tohtml(save = FALSE)
}</pre>
```

topptx

export figure to pptx

Description

export figure to pptx

```
topptx(
  figure = NULL,
  filename = NULL,
  nr = 1,
  nc = 1,
  irow = 1,
  icol = 1,
  onsame = FALSE,
  title = "",
  left = 0.15,
  top = 0.15,
  width = 6,
  height = 6,
```

12 totable

```
append = FALSE,
  devsize = FALSE,
  units = "in"
)
```

Arguments

figure plot figure function filename output filename two numbers to indicate the figures will be drawn in an nr-by-nc array on the nr, nc device by columns or rows, respectively. the number to indicate which row or column for the figure to be drawn irow, icol onsame Boolean value show to draw on same slide or not title title for the figure two numbers which gives the number of lines of margin to be specified on the left, top left and right sides of the plot width width of the output figure height of the output figure height append append or not devsize Boolean value show use device size or not (default = FALSE)

the units in which to return the value – inches, cm, or pixels (device units)

Author(s)

Kai Guo

units

Examples

```
if(interactive()){
plot(mtcars$mpg, mtcars$disp)
topptx(filename = file.path(tempdir(), "mtcars.pptx"))
## use ggplot2
ggplot(mtcars, aes(mpg, disp, color = factor(cyl))) + geom_point()
topptx(filename = file.path(tempdir(), "mtcars.pptx"))
}
```

totable

write table out to pptx or docx

Description

write table out to pptx or docx

```
totable(data, filename, format = NULL, append = FALSE)
```

toxlsx 13

Arguments

data datasets

filename output filename format pptx or docx append append into file

Author(s)

Kai Guo

Examples

```
tt <- t.test(wt ~ am, mtcars)
totable(tt, filename = file.path(tempdir(), "mtcars.pptx"))
totable(t.test(wt ~ am, mtcars), filename = file.path(tempdir(), "mtcars.pptx"))
totable(head(mtcars), filename = file.path(tempdir(), "mtcars.docx"))</pre>
```

toxlsx

export figure to pptx

Description

export figure to pptx

Usage

```
toxlsx(
  figure = NULL,
  filename = NULL,
  width = 6,
  height = 6,
  devsize = FALSE,
  units = "in"
)
```

Arguments

figure plot figure function filename output filename

width width of the output figure height height of the output figure

devsize Boolean value show use device size or not (default = FALSE)

units the units in which to return the value – inches, cm, or pixels (device units)

14 toxlsx

Author(s)

Kai Guo

Examples

```
if(interactive()){
plot(mtcars$mpg, mtcars$disp)
toxlsx(filename = file.path(tempdir(), "mtcars.xlsx"))
## use ggplot2
ggplot(mtcars, aes(mpg, disp, color = factor(cyl))) + geom_point()
toxlsx(filename = file.path(tempdir(), "mtcars.xlsx"))
}
```

Index

```
.getext, 2
. \, {\tt setcolnames}, \, {\tt 3}
.theme_blank, 3
col2hex, 3
convertplot, 4
indocx, 4
infigure, 5
in of fice, \\ 6
inpptx, 7
todocx, 7
toffice, 8
to figure, 10
tohtml, 10
topptx, 11
totable, 12
toxlsx, 13
```