

# Package ‘eoffice’

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**Type** Package

**Title** Export or Graph and Tables to 'Microsoft' Office and Import  
Figures and Tables

**Version** 0.2.3

**Description** 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.

**License** GPL-2

**Imports** officer, rvg, flextable, broom, dplyr, magrittr, ggplotify,  
R.devices, devEMF, magick, ggplot2, htmlwidgets, plotly, rlang

**Encoding** UTF-8

**Suggests** knitr, markdown, rmarkdown

**VignetteBuilder** knitr

**RoxygenNote** 7.3.3

**NeedsCompilation** no

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**Repository** CRAN

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<i>.gettext</i>	<i>get the suffix name</i>
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**Description**

get the suffix name

**Usage**

`.gettext(x)`

**Arguments**

x	filename
---	----------

---

<i>.getfilename</i>	<i>get the prefix name</i>
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**Description**

get the prefix name

**Usage**

`.getfilename(x)`

**Arguments**

x	filename
---	----------

---

.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

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)
```

---

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

**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
```

---

`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,  
  saveegg = FALSE,  
  density = 300,  
  pages = NULL  
)
```

**Arguments**

<code>filename</code>	input filename
<code>format</code>	format of input file
<code>exclude_col</code>	vector of colors to be excluded from the analysis
<code>topn</code>	display the most frequent colors
<code>showfig</code>	display the figure or not (default: FALSE)
<code>showcol</code>	display extracted colors or not (default: FALSE)
<code>saveegg</code>	save the figure as ggplot2 object or not (default: FALSE)
<code>density</code>	resolution to render pdf
<code>pages</code>	integer vector with page numbers (pdf file). Defaults to all pages.

**Author(s)**

Kai Guo

## 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
}
```

---

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
```

---

inpptx	<i>read table from pptx</i>
--------	-----------------------------

---

**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
```

---

todocx	<i>export figure to docx</i>
--------	------------------------------

---

**Description**

export figure to docx

**Usage**

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

**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	append or not
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)

**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

**Usage**

```
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,
```

```

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

```

### Arguments

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

### Author(s)

Kai Guo

### 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")
}

```

---

tofigure	<i>output figures to different formats</i>
----------	--

---

**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"))
```

---

tohtml	<i>export as plotly html (only support ggplot2 object)</i>
--------	--

---

**Description**

export as plotly html (only support ggplot2 object)

**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)
}
```

---

topptx

*export figure to pptx*

---

**Description**

export figure to pptx

**Usage**

```
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,
```

```

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

```

### Arguments

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

### Author(s)

Kai Guo

### 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	<i>write table out to pptx or docx</i>
---------	--

---

### Description

write table out to pptx or docx

### Usage

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

**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"))
```

---

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)

**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"))  
}
```

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