

Package ‘WordR’

July 10, 2022

Type Package

Title Rendering Word Documents with R Inline Code

Version 0.3.5

Author Tomas Hovorka

Maintainer Tomas Hovorka <tomashovorka@seznam.cz>

Description

Serves for rendering MS Word documents with R inline code and inserting tables and plots.

License GPL-3

Encoding UTF-8

Imports dplyr, officer, flextable, xml2

RoxygenNote 7.1.2

Suggests knitr, rmarkdown, ggplot2, testthat

VignetteBuilder knitr

NeedsCompilation no

Repository CRAN

Date/Publication 2022-07-10 09:20:06 UTC

R topics documented:

addPlots	2
body_add_flextables	3
examplePath	4
renderAll	4
renderInlineCode	5

Index	7
--------------	----------

addPlots	<i>Read Word document with bookmarks and create other Word document with rendered plots in place.</i>
----------	---

Description

This function takes a list of functions creating plots and insert into Word document on places with correspondning bookmarks.

Usage

```
addPlots(
  docxIn,
  docxOut,
  Plots = list(),
  width = 6,
  height = 6,
  res = 300,
  style = NULL,
  debug = F,
  ...
)
```

Arguments

docxIn	String of length one; path to Word file with bookmarks OR officer::rdocx object
docxOut	String of length one; path for output Word file or NA
Plots	Named list of functions (or plots - for plots which are stored as objects e.g., ggplot) creating plots to be inserted into the Word file
width	width of the plots in output in inches, either of length 1 (and will be recycled), or same length as Plots
height	height of the plots in output in inches, either of length 1 (and will be recycled), or same length as Plots
res	see res parameter in png
style	see style parameter in body_add_img
debug	Boolean of length one; If True then browser() is called at the beginning of the function
...	Parameters to be sent to other methods (png)

Value

Path to the rendered Word file if the operation was successfull OR officer::rdocx object if docxOut is NA

Examples

```
library(ggplot2)
Plots<-list(plot1=function()plot(hp~wt,data=mtcars,col=cyl),
  plot2=function()print(ggplot(mtcars,aes(x=wt,y=hp,col=as.factor(cyl)))+geom_point()))
addPlots(
  paste(examplePath(),'templates/templatePlots.docx',sep = ''),
  paste(tempdir(),'resultPlots.docx',sep = ''),
  Plots,height=4)
```

body_add_flextables	<i>Read Word document with bookmarks and create other Word document with rendered tables in place.</i>
---------------------	--

Description

This function is basically a loop wrapper around [body_add_flexitable](#) function.

Usage

```
body_add_flextables(docxIn, docxOut, flextables, debug = F, ...)
```

Arguments

docxIn	String of length one; path to Word file with bookmarks OR officer::rdocx object
docxOut	String of length one; path for output Word file or NA
flextables	Named list of flextables; Tables to be inserted into the Word file
debug	Boolean of length one; If True then browser() is called at the beginning of the function
...	Parameters to be sent to other methods (mainly body_add_flexitable)

Value

Path to the rendered Word file if the operation was successfull OR officer::rdocx object if docxOut is NA

Examples

```
library(flexitable)
ft_mtcars <- flexitable(mtcars)
ft_iris <- flexitable(iris)
FT <- list(ft_mtcars=ft_mtcars,ft_iris=ft_iris)
body_add_flextables(
  paste(examplePath(),'templates/templateFT.docx',sep = ''),
  paste(tempdir(),'resultFT.docx',sep = ''),
  FT)
```

examplePath	Returns path to examples folder
-------------	---------------------------------

Description

Returns path to examples folder

Usage

```
examplePath()
```

Value

Returns path to examples folder

Examples

```
examplePath()
```

renderAll	Read Word document and apply functions body_add_flextables , renderInlineCode , addPlots .
-----------	--

Description

Read Word document and apply functions [body_add_flextables](#), [renderInlineCode](#), [addPlots](#).

Usage

```
renderAll(  
  docxIn,  
  docxOut,  
  flextables = NULL,  
  Plots = NULL,  
  height = 6,  
  width = 6,  
  debug = F  
)
```

Arguments

docxIn	String of length one; path to Word file with bookmarks OR officer::rdocx object
docxOut	String of length one; path for output Word file or NA
flextables	Named list of flextables; Tables to be inserted into the Word file
Plots	Named list of functions (or plots - for plots which are stored as objects e.g., ggplot) creating plots to be inserted into the Word file
height	height of the plots in output in inches, either of length 1 (and will be recycled), or same length as Plots
width	width of the plots in output in inches, either of length 1 (and will be recycled), or same length as Plots
debug	Boolean of length one; If True then <code>browser()</code> is called at the beginning of the function

Value

Path to the rendered Word file if the operation was successful OR officer::rdocx object if docxOut is NA

Examples

```
library(flextable)
library(ggplot2)
ft_mtcars <- flextable(mtcars)
FT <- list(mtcars=ft_mtcars)
Plots <- list(mtcars1 = ggplot(mtcars, aes(x = wt, y = hp, col = as.factor(cyl))) + geom_point())
renderAll(docxIn=paste0(examplePath(), "templates/templateAll.docx"),
          docxOut=paste0(tempdir(), "/resultsAll.docx"),
          flextables=FT,
          Plots=Plots)
```

renderInlineCode	<i>Read Word document with R code blocks, evaluate them and writes the result into another Word document.</i>
------------------	---

Description

Read Word document with R code blocks, evaluate them and writes the result into another Word document.

Usage

```
renderInlineCode(docxIn, docxOut, debug = F)
```

Arguments

docxIn	String of length one; path to Word file with bookmarks OR officer::rdocx object
docxOut	String of length one; path for output Word file or NA
debug	Boolean of length one; If True then browser() is called at the beginning of the function

Value

Path to the rendered Word file if the operation was successful OR officer::rdocx object if docxOut is NA

Examples

```
renderInlineCode(  
  paste(examplePath(), 'templates/template1.docx', sep = ''),  
  paste(tempdir(), '/result1.docx', sep = ''))
```

Index

`addPlots`, [2](#), [4](#)

`body_add_flextable`, [3](#)

`body_add_flextables`, [3](#), [4](#)

`body_add_img`, [2](#)

`browser`, [2](#), [3](#), [5](#), [6](#)

`examplePath`, [4](#)

`png`, [2](#)

`renderAll`, [4](#)

`renderInlineCode`, [4](#), [5](#)