

Package ‘officer’

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Type Package

Title Manipulation of Microsoft Word and PowerPoint Documents

Version 0.1.8

Description Access and manipulate 'Microsoft Word' and 'Microsoft PowerPoint' documents from R. The package focus on tabular and graphical reporting from R; it also provides two functions that let users get document content into data objects. A set of functions lets add and remove images, tables and paragraphs of text in new or existing documents. When working with 'PowerPoint' presentations, slides can be added or removed; shapes inside slides can also be added or removed. When working with 'Word' documents, a cursor can be used to help insert or delete content at a specific location in the document. The package does not require any installation of Microsoft product to be able to write Microsoft files.

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LazyData TRUE

LinkingTo Rcpp

Imports Rcpp (>= 0.12.12), purrr,dplyr,R6,tibble,ggplot2,
R.utils,utils,grDevices, base64enc,zip, digest,uuid,
magrittr,htmltools, xml2 (>= 1.1.0)

URL <https://davidgohel.github.io/officer>

BugReports <https://github.com/davidgohel/officer/issues>

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| | |
|-----------|--------------------|
| add_slide | <i>add a slide</i> |
|-----------|--------------------|

Description

add a slide into a pptx presentation

Usage

add_slide(x, layout, master)

Arguments

- | | |
|--------|--|
| x | rpptx object |
| layout | slide layout name to use |
| master | master layout name where layout is located |

Examples

```
my_pres <- read_pptx()
my_pres <- add_slide(my_pres,
  layout = "Two Content", master = "Office Theme")
```

| | |
|----------------|-----------------------|
| body_add_break | <i>add page break</i> |
|----------------|-----------------------|

Description

add a page break into an rdocx object

Usage

```
body_add_break(x, pos = "after")
```

Arguments

| | |
|-----|--|
| x | an rdocx object |
| pos | where to add the new element relative to the cursor, one of "after", "before", "on". |

Examples

```
library(magrittr)
doc <- read_docx() %>% body_add_break()
print(doc, target = "body_add_break.docx" )
```

| | |
|---------------|-----------------|
| body_add_fpar | <i>add fpar</i> |
|---------------|-----------------|

Description

add an fpar (a formatted paragraph) into an rdocx object

Usage

```
body_add_fpar(x, value, style = NULL, pos = "after")
```

Arguments

| | |
|-------|--|
| x | a docx device |
| value | a character |
| style | paragraph style |
| pos | where to add the new element relative to the cursor, one of "after", "before", "on". |

See Also

[fpar](#)

Examples

```
library(magrittr)
bold_face <- shortcuts$fp_bold(font.size = 30)
bold_redface <- update(bold_face, color = "red")
fpar_ <- fpar(ftext("Hello ", prop = bold_face),
             ftext("World", prop = bold_redface ),
             ftext(", how are you?", prop = bold_face ) )
doc <- read_docx() %>% body_add_fpar(fpar_)

print(doc, target = "body_add_fpar.docx" )
```

body_add_gg

*add ggplot***Description**

add a ggplot as a png image into an rdocx object

Usage

```
body_add_gg(x, value, width = 6, height = 5, style = NULL, ...)
```

Arguments

| | |
|--------|---|
| x | an rdocx object |
| value | ggplot object |
| width | height in inches |
| height | height in inches |
| style | paragraph style |
| ... | Arguments to be passed to png function. |

Examples

```
library(ggplot2)

doc <- read_docx()

gg_plot <- ggplot(data = iris ) +
  geom_point(mapping = aes(Sepal.Length, Petal.Length))

if( capabilities(what = "png") )
  doc <- body_add_gg(doc, value = gg_plot, style = "centered" )

print(doc, target = "body_add_gg.docx" )
```

| | |
|--------------|------------------|
| body_add_img | <i>add image</i> |
|--------------|------------------|

Description

add an image into an rdocx object

Usage

```
body_add_img(x, src, style = NULL, width, height, pos = "after")
```

Arguments

| | |
|--------|--|
| x | an rdocx object |
| src | image filename |
| style | paragraph style |
| width | height in inches |
| height | height in inches |
| pos | where to add the new element relative to the cursor, one of "after", "before", "on". |

Examples

```
doc <- read_docx()

img.file <- file.path( Sys.getenv("R_HOME"), "doc", "html", "logo.jpg" )
if( file.exists(img.file) ){
  doc <- body_add_img(x = doc, src = img.file, height = 1.06, width = 1.39 )
}

print(doc, target = "body_add_img.docx" )
```

| | |
|--------------|------------------------------|
| body_add_par | <i>add paragraph of text</i> |
|--------------|------------------------------|

Description

add a paragraph of text into an rdocx object

Usage

```
body_add_par(x, value, style = NULL, pos = "after")
```

Arguments

| | |
|-------|--|
| x | a docx device |
| value | a character |
| style | paragraph style |
| pos | where to add the new element relative to the cursor, one of "after", "before", "on". |

Examples

```
library(magrittr)

doc <- read_docx() %>%
  body_add_par("A title", style = "heading 1") %>%
  body_add_par("Hello world!", style = "Normal") %>%
  body_add_par("centered text", style = "centered")

print(doc, target = "body_add_par.docx" )
```

| | |
|----------------|------------------|
| body_add_table | <i>add table</i> |
|----------------|------------------|

Description

add a table into an rdocx object

Usage

```
body_add_table(x, value, style = NULL, pos = "after", header = TRUE,
  first_row = TRUE, first_column = FALSE, last_row = FALSE,
  last_column = FALSE, no_hband = FALSE, no_vband = TRUE)
```

Arguments

| | |
|--|--|
| x | a docx device |
| value | a data.frame |
| style | table style |
| pos | where to add the new element relative to the cursor, one of "after", "before", "on". |
| header | display header if TRUE |
| first_row, last_row, first_column, last_column, no_hband, no_vband | logical for Word table options |

Examples

```
library(magrittr)

doc <- read_docx() %>%
  body_add_table(iris, style = "table_template")

print(doc, target = "body_add_table.docx" )
```

| | |
|--------------|-----------------------------|
| body_add_toc | <i>add table of content</i> |
|--------------|-----------------------------|

Description

add a table of content into an rdocx object

Usage

```
body_add_toc(x, level = 3, pos = "after", style = NULL, separator = ";")
```

Arguments

- x an rdocx object
- level max title level of the table
- pos where to add the new element relative to the cursor, one of "after", "before", "on".
- style optional. style in the document that will be used to build entries of the TOC.
- separator optional. Some configurations need "," (i.e. from Canada) separator instead of ";"

Examples

```
library(magrittr)
doc <- read_docx() %>% body_add_toc()

print(doc, target = "body_add_toc.docx" )
```

| | |
|--------------|--|
| body_add_xml | <i>add an xml string as document element</i> |
|--------------|--|

Description

Add an xml string as document element in the document. This function is to be used to add custom openxml code.

Usage

```
body_add_xml(x, str, pos)
```

Arguments

| | |
|-----|--|
| x | an rdocx object |
| str | a wml string |
| pos | where to add the new element relative to the cursor, one of "after", "before", "on". |

| | |
|---------------|---------------------|
| body_bookmark | <i>add bookmark</i> |
|---------------|---------------------|

Description

Add a bookmark at the cursor location.

Usage

```
body_bookmark(x, id)
```

Arguments

| | |
|----|-----------------|
| x | an rdocx object |
| id | bookmark name |

Examples

```
# cursor_bookmark ----
library(magrittr)

doc <- read_docx() %>%
  body_add_par("centered text", style = "centered") %>%
  body_bookmark("text_to_replace")
```

| | |
|------------------|--------------------|
| body_end_section | <i>add section</i> |
|------------------|--------------------|

Description

add a section in a Word document. A section has effect on preceding paragraphs or tables.

Usage

```
body_end_section(x, landscape = FALSE, colwidths = c(1), space = 0.05,
  sep = FALSE, continuous = FALSE)
```

```
body_default_section(x, landscape = FALSE)
```

```
break_column_before(x)
```

Arguments

| | |
|------------|---|
| x | an rdocx object |
| landscape | landscape orientation |
| colwidths | columns widths in percent, if 3 values, 3 columns will be produced. Sum of this argument should be 1. |
| space | space in percent between columns. |
| sep | if TRUE a line is sperating columns. |
| continuous | TRUE for a continuous section break. |

Details

A section start at the end of the previous section (or the beginning of the document if no preceding section exists), it stops where the section is declared. The function `body_end_section()` is reflecting that Word concept. The function `body_default_section()` is only modifying the default section of the document.

Examples

```
library(magrittr)

str1 <- "Lorem ipsum dolor sit amet, consectetur adipiscing elit. " %>%
  rep(10) %>% paste(collapse = "")

my_doc <- read_docx() %>%
  # add a paragraph
  body_add_par(value = str1, style = "Normal") %>%
  # add a continuous section
  body_end_section(continuous = TRUE) %>%
  body_add_par(value = str1, style = "Normal") %>%
  body_add_par(value = str1, style = "Normal") %>%
```

```

# preceding paragraph is on a new column
break_column_before() %>%
# add a two columns continous section
body_end_section(colwidths = c(.6, .4),
                  space = .05, sep = FALSE, continuous = TRUE) %>%
body_add_par(value = str1, style = "Normal") %>%
# add a continuous section ... so far there is no break page
body_end_section(continuous = TRUE) %>%
body_add_par(value = str1, style = "Normal") %>%
body_default_section(landscape = TRUE)

print(my_doc, target = "section.docx")

```

body_remove

remove an element

Description

remove element pointed by cursor from a Word document

Usage

```
body_remove(x)
```

Arguments

x an rdocx object

Examples

```

library(officer)
library(magrittr)

str1 <- "Lorem ipsum dolor sit amet, consectetur adipiscing elit. " %>%
  rep(20) %>% paste(collapse = "")
str2 <- "Drop that text"
str3 <- "Aenean venenatis varius elit et fermentum vivamus vehicula. " %>%
  rep(20) %>% paste(collapse = "")

my_doc <- read_docx() %>%
  body_add_par(value = str1, style = "Normal") %>%
  body_add_par(value = str2, style = "centered") %>%
  body_add_par(value = str3, style = "Normal")

print(my_doc, target = "init_doc.docx")

my_doc <- read_docx(path = "init_doc.docx") %>%
  cursor_reach(keyword = "that text") %>%
  body_remove()

print(my_doc, target = "result_doc.docx")

```

| | |
|-----------------|--|
| body_replace_at | <i>replace text at a bookmark location</i> |
|-----------------|--|

Description

replace text content enclosed in a bookmark by another text. A bookmark will be considered as valid if enclosing words within a paragraph, i.e. a bookmark along two or more paragraphs is invalid, a bookmark set on a whole paragraph is also invalid, bookmarking few words inside a paragraph is valid.

Usage

```
body_replace_at(x, bookmark, value)
```

Arguments

| | |
|----------|---------------|
| x | a docx device |
| bookmark | bookmark id |
| value | a character |

Examples

```
library(magrittr)
doc <- read_docx() %>%
  body_add_par("centered text", style = "centered") %>%
  slip_in_text(". How are you", style = "strong") %>%
  body_bookmark("text_to_replace") %>%
  body_replace_at("text_to_replace", "not left aligned")
```

| | |
|--------------|---------------------|
| color_scheme | <i>color scheme</i> |
|--------------|---------------------|

Description

get master layout color scheme into a data.frame.

Usage

```
color_scheme(x)
```

Arguments

| | |
|---|--------------|
| x | rpptx object |
|---|--------------|

Examples

```
x <- read_pptx()
color_scheme ( x = x )
```

| | |
|--------------|--------------------------------------|
| cursor_begin | <i>set cursor in an rdocx object</i> |
|--------------|--------------------------------------|

Description

a set of functions is available to manipulate the position of a virtual cursor. This cursor will be used when inserting, deleting or updating elements in the document.

Usage

cursor_begin(x)

cursor_bookmark(x, id)

cursor_end(x)

cursor_reach(x, keyword)

cursor_forward(x)

cursor_backward(x)

Arguments

| | |
|---------|---|
| x | a docx device |
| id | bookmark id |
| keyword | keyword to look for as a regular expression |

cursor_begin

Set the cursor at the beginning of the document, on the first element of the document (usually a paragraph or a table).

cursor_end

Set the cursor at the end of the document, on the last element of the document.

cursor_reach

Set the cursor on the first element of the document that contains text specified in argument keyword.

cursor_forward

Move the cursor forward, it increments the cursor in the document.

cursor_backward

Move the cursor backward, it decrements the cursor in the document.

Examples

```
library(officer)
library(magrittr)

doc <- read_docx() %>%
  body_add_par("paragraph 1", style = "Normal") %>%
  body_add_par("paragraph 2", style = "Normal") %>%
  body_add_par("paragraph 3", style = "Normal") %>%
  body_add_par("paragraph 4", style = "Normal") %>%
  body_add_par("paragraph 5", style = "Normal") %>%
  body_add_par("paragraph 6", style = "Normal") %>%
  body_add_par("paragraph 7", style = "Normal") %>%

# default template contains only an empty paragraph
# Using cursor_begin and body_remove, we can delete it
cursor_begin() %>% body_remove() %>%

# Let add text at the beginning of the
# paragraph containing text "paragraph 4"
cursor_reach(keyword = "paragraph 4") %>%
slip_in_text("This is ", pos = "before", style = "Default Paragraph Font") %>%

# move the cursor forward and end a section
cursor_forward() %>%
body_add_par("The section stop here", style = "Normal") %>%
body_end_section(landscape = TRUE) %>%

# move the cursor at the end of the document
cursor_end() %>%
body_add_par("The document ends now", style = "Normal")

print(doc, target = "cursor.docx")

# cursor_bookmark ----
library(magrittr)

doc <- read_docx() %>%
  body_add_par("centered text", style = "centered") %>%
  body_bookmark("text_to_replace") %>%
  body_add_par("A title", style = "heading 1") %>%
  body_add_par("Hello world!", style = "Normal") %>%
  cursor_bookmark("text_to_replace") %>%
  body_add_table(value = iris, style = "table_template")

print(doc, target = "bookmark.docx")
```

Description

List bookmarks id that can be found in an rdocx object.

Usage

```
docx_bookmarks(x)
```

Arguments

x a rdocx object

Examples

```
library(magrittr)

doc <- read_docx() %>%
  body_add_par("centered text", style = "centered") %>%
  body_bookmark("text_to_replace") %>% body_add_par("centered text", style = "centered") %>%
  body_bookmark("text_to_replace2")

docx_bookmarks(doc)

docx_bookmarks(read_docx())
```

docx_dim

Word page layout

Description

get page width, page height and margins (in inches). The return values are those corresponding to the section where the cursor is.

Usage

```
docx_dim(x)
```

Arguments

x a rdocx object

Examples

```
docx_dim(read_docx())
```

| | |
|--------------------|--|
| docx_reference_img | <i>add images into an rdocx object</i> |
|--------------------|--|

Description

reference images into a Word document. This function is to be used with [wml_link_images](#).

Images need to be referenced into the Word document, this will generate unique identifiers that need to be known to link these images with their corresponding xml code (wml).

Usage

```
docx_reference_img(x, src)
```

Arguments

| | |
|-----|---|
| x | an rdocx object |
| src | a vector of character containing image filenames. |

| | |
|--------------|--|
| docx_summary | <i>get Word content in a tidy format</i> |
|--------------|--|

Description

read content of a Word document and return a tidy dataset representing the document.

Usage

```
docx_summary(x)
```

Arguments

| | |
|---|-----------------|
| x | an rdocx object |
|---|-----------------|

Examples

```
example_pptx <- system.file(package = "officer",
  "doc_examples/example.docx")
doc <- read_docx(example_pptx)
docx_summary(doc)
```

| | |
|----------------|---------------------------------|
| doc_properties | <i>read document properties</i> |
|----------------|---------------------------------|

Description

read Word or PowerPoint document properties and get results in a tidy data.frame.

Usage

```
doc_properties(x)
```

Arguments

x an rdocx or rpptx object

Examples

```
library(magrittr)
read_docx() %>% doc_properties()
```

| | |
|--------------|-----------------------|
| external_img | <i>external image</i> |
|--------------|-----------------------|

Description

This function is used to insert images into flextable with function display

Usage

```
external_img(src, width = 0.5, height = 0.2)
```

```
## S3 method for class 'external_img'
dim(x)
```

```
## S3 method for class 'external_img'
as.data.frame(x, ...)
```

```
## S3 method for class 'external_img'
format(x, type = "console", ...)
```

Arguments

| | |
|--------|---------------------|
| src | image file path |
| width | height in inches |
| height | height in inches |
| x | external_img object |
| ... | unused |
| type | output format |

Examples

```
# external_img("example.png")
```

| | |
|------|-----------------------------------|
| fpar | <i>concatenate formatted text</i> |
|------|-----------------------------------|

Description

Create a paragraph representation by concatenating formatted text or images. Modify default text and paragraph formatting properties with update.

Usage

```
fpar(...)

## S3 method for class 'fpar'
update(object, fp_p = NULL, fp_t = NULL, ...)

fortify_fpar(x)

## S3 method for class 'fpar'
as.data.frame(x, ...)

## S3 method for class 'fpar'
format(x, type = "pml", ...)

## S3 method for class 'fpar'
print(x, ...)
```

Arguments

| | |
|-----------|--|
| ... | unused |
| fp_p | paragraph formatting properties |
| fp_t | default text formatting properties |
| x, object | fpar object |
| type | a string value ("pml", "wml" or "html"). |

Details

fortify_fpar, as.data.frame are used internally and are not supposed to be used by end user.

Examples

```
fpar(ftext("hello", shortcuts$fp_bold()))
```

| | |
|-----------|---------------------------------|
| fp_border | <i>border properties object</i> |
|-----------|---------------------------------|

Description

create a border properties object.

Usage

```
fp_border(color = "black", style = "solid", width = 1)
```

```
## S3 method for class 'fp_border'
update(object, color, style, width, ...)
```

```
## S3 method for class 'fp_border'
format(x, type = "pml", ...)
```

Arguments

| | |
|-----------|---|
| color | border color - single character value (e.g. "#000000" or "black") |
| style | border style - single character value : "none" or "solid" or "dotted" or "dashed" |
| width | border width - an integer value : 0 >= value |
| ... | further arguments - not used |
| x, object | object fp_border |
| type | output type - one of 'pml'. |

Examples

```
fp_border()
fp_border(color="orange", style="solid", width=1)
fp_border(color="gray", style="dotted", width=1)

# modify object -----
border <- fp_border()
update(border, style="dotted", width=3)
```

fp_cell

*Cell formatting properties***Description**

Create a fp_cell object that describes cell formatting properties.

Usage

```
fp_cell(border = fp_border(width = 0), border.bottom, border.left, border.top,
        border.right, vertical.align = "center", margin = 0, margin.bottom,
        margin.top, margin.left, margin.right, background.color = "transparent",
        text.direction = "lrbt")
```

```
## S3 method for class 'fp_cell'
format(x, type = "wml", ...)
```

```
## S3 method for class 'fp_cell'
print(x, ...)
```

```
## S3 method for class 'fp_cell'
update(object, border, border.bottom, border.left, border.top,
        border.right, vertical.align, margin = 0, margin.bottom, margin.top,
        margin.left, margin.right, background.color, text.direction, ...)
```

Arguments

| | |
|--|---|
| border | shortcut for all borders. |
| border.bottom, border.left, border.top, border.right | fp_border for borders. |
| vertical.align | cell content vertical alignment - a single character value , expected value is one of "center" or "top" or "bottom" |
| margin | shortcut for all margins. |
| margin.bottom, margin.top, margin.left, margin.right | cell margins - 0 or positive integer value. |
| background.color | cell background color - a single character value specifying a valid color (e.g. "#000000" or "black"). |
| text.direction | cell text rotation - a single character value, expected value is one of "lrbt", "tblr", "btlr". |
| x, object | object fp_cell |
| type | output type - one of 'wml', 'pml', 'html'. |
| ... | further arguments - not used |

Examples

```
obj <- fp_cell(margin = 1)
update( obj, margin.bottom = 5 )
```

| | |
|--------|--|
| fp_par | <i>Paragraph formatting properties</i> |
|--------|--|

Description

Create a fp_par object that describes paragraph formatting properties.

Usage

```
fp_par(text.align = "left", padding = 0, border = fp_border(width = 0),
padding.bottom, padding.top, padding.left, padding.right, border.bottom,
border.left, border.top, border.right, shading.color = "transparent")
```

```
## S3 method for class 'fp_par'
dim(x)
```

```
## S3 method for class 'fp_par'
print(x, ...)
```

```
## S3 method for class 'fp_par'
update(object, text.align, padding, border, padding.bottom,
padding.top, padding.left, padding.right, border.bottom, border.left,
border.top, border.right, shading.color, ...)
```

Arguments

| | |
|--|---|
| text.align | text alignment - a single character value, expected value is one of 'left', 'right', 'center', 'justify'. |
| padding | paragraph paddings - 0 or positive integer value. Argument padding overwrites arguments padding.bottom, padding.top, padding.left, padding.right. |
| border | shortcut for all borders. |
| padding.bottom, padding.top, padding.left, padding.right | paragraph paddings - 0 or positive integer value. |
| border.bottom, border.left, border.top, border.right | fp_border for borders. overwrite other border properties. |
| shading.color | shading color - a single character value specifying a valid color (e.g. "#000000" or "black"). |
| x, object | fp_par object |
| ... | further arguments - not used |

Value

a fp_par object

Examples

```
fp_par(text.align = "center", padding = 5)
obj <- fp_par(text.align = "center", padding = 1)
update( obj, padding.bottom = 5 )
```

| | |
|---------|--------------------------------|
| fp_sign | <i>object unique signature</i> |
|---------|--------------------------------|

Description

Get unique signature for a formatting properties object.

Usage

```
fp_sign(x)
```

Arguments

x a formatting set of properties

Examples

```
fp_sign( fp_text(color="orange") )
```

| | |
|---------|-----------------------------------|
| fp_text | <i>Text formatting properties</i> |
|---------|-----------------------------------|

Description

Create a fp_text object that describes text formatting properties.

Usage

```
fp_text(color = "black", font.size = 10, bold = FALSE, italic = FALSE,
  underlined = FALSE, font.family = "Arial", vertical.align = "baseline",
  shading.color = "transparent")
```

```
## S3 method for class 'fp_text'
format(x, type = "wml", ...)
```

```
## S3 method for class 'fp_text'
print(x, ...)
```

```
## S3 method for class 'fp_text'
as.data.frame(x, ...)

## S3 method for class 'fp_text'
update(object, color, font.size, bold = FALSE,
       italic = FALSE, underlined = FALSE, font.family, vertical.align,
       shading.color, ...)
```

Arguments

| | |
|----------------|---|
| color | font color - a single character value specifying a valid color (e.g. "#000000" or "black"). |
| font.size | font size (in point) - 0 or positive integer value. |
| bold | is bold |
| italic | is italic |
| underlined | is underlined |
| font.family | single character value specifying font name. |
| vertical.align | single character value specifying font vertical alignments. Expected value is one of the following : default 'baseline' or 'subscript' or 'superscript' |
| shading.color | shading color - a single character value specifying a valid color (e.g. "#000000" or "black"). |
| x | fp_text object |
| type | output type - one of 'wml', 'pml', 'html'. |
| ... | further arguments - not used |
| object | fp_text object to modify |
| format | format type, wml for MS word, pml for MS PowerPoint and html. |

Value

a fp_text object

Examples

```
print( fp_text (color="red", font.size = 12) )
```

| | |
|--------------------|-----------------------|
| <code>ftext</code> | <i>formatted text</i> |
|--------------------|-----------------------|

Description

Format a chunk of text with text formatting properties.

Usage

```
ftext(text, prop)

## S3 method for class 'ftext'
format(x, type = "console", ...)

## S3 method for class 'ftext'
print(x, ...)
```

Arguments

| | |
|-------------------|--|
| <code>text</code> | text value |
| <code>prop</code> | formatting text properties |
| <code>x</code> | <code>ftext</code> object |
| <code>type</code> | output format, one of wml, pml, html, console, text. |
| <code>...</code> | unused |

Examples

```
ftext("hello", fp_text())
```

| | |
|--------------------------------|--------------------------------|
| <code>layout_properties</code> | <i>slide layout properties</i> |
|--------------------------------|--------------------------------|

Description

get informations about a particular slide layout into a data.frame.

Usage

```
layout_properties(x, layout = NULL, master = NULL)
```

Arguments

| | |
|---------------------|--|
| <code>x</code> | rpptx object |
| <code>layout</code> | slide layout name to use |
| <code>master</code> | master layout name where layout is located |

Examples

```
x <- read_pptx()
layout_properties ( x = x, layout = "Title Slide", master = "Office Theme" )
layout_properties ( x = x, master = "Office Theme" )
layout_properties ( x = x, layout = "Two Content" )
layout_properties ( x = x )
```

| | |
|----------------|-------------------------------------|
| layout_summary | <i>presentation layouts summary</i> |
|----------------|-------------------------------------|

Description

get informations about slide layouts and master layouts into a data.frame.

Usage

```
layout_summary(x)
```

Arguments

| | |
|---|--------------|
| x | rpptx object |
|---|--------------|

Examples

```
my_pres <- read_pptx()
layout_summary ( x = my_pres )
```

| | |
|---------------|---|
| media_extract | <i>Extract media from a document object</i> |
|---------------|---|

Description

Extract files from an rdocx or rpptx object.

Usage

```
media_extract(x, path, target)
```

Arguments

| | |
|--------|---------------------------------------|
| x | an rpptx object or an rdocx object |
| path | media path, should be a relative path |
| target | target file |

Examples

```
example_pptx <- system.file(package = "officer",  
  "doc_examples/example.pptx")  
doc <- read_pptx(example_pptx)  
content <- pptx_summary(doc)  
image_row <- content[content$content_type %in% "image", ]  
media_file <- image_row$media_file  
media_extract(doc, path = media_file, target = "extract.png")
```

officer

officer: Manipulate Microsoft Word and PowerPoint Documents

Description

The officer package facilitates access to and manipulation of 'Microsoft Word' and 'Microsoft PowerPoint' documents from R.

Details

- read Word and PowerPoint files into data objects
- add/edit/remove image, table and text content from documents and slides
- write updated content back to Word and PowerPoint files

To learn more about officer, start with the vignettes: `'browseVignettes(package = "officer")'`

Author(s)

Maintainer: David Gohel <david.gohel@ardata.fr>

See Also

Useful links:

- <https://davidgohel.github.io/officer>
- Report bugs at <https://github.com/davidgohel/officer/issues>

| | |
|----------|-----------------------------|
| on_slide | <i>change current slide</i> |
|----------|-----------------------------|

Description

change current slide index of an rpptx object.

Usage

```
on_slide(x, index)
```

Arguments

| | |
|-------|--------------|
| x | rpptx object |
| index | slide index |

Examples

```
doc <- read_pptx()
doc <- add_slide(doc, layout = "Title and Content", master = "Office Theme")
doc <- add_slide(doc, layout = "Title and Content", master = "Office Theme")
doc <- add_slide(doc, layout = "Title and Content", master = "Office Theme")
doc <- on_slide( doc, index = 1)
doc <- ph_with_text(x = doc, type = "title", str = "First title")
doc <- on_slide( doc, index = 3)
doc <- ph_with_text(x = doc, type = "title", str = "Third title")

print(doc, target = "on_slide.pptx" )
```

| | |
|-------------|--------------------------|
| pack_folder | <i>compress a folder</i> |
|-------------|--------------------------|

Description

compress a folder to a target file. The function returns the complete path to target file.

Usage

```
pack_folder(folder, target)
```

Arguments

| | |
|--------|-------------------------------|
| folder | folder to compress |
| target | path of the archive to create |

Details

The function is using [zip](#), it needs a zip program.

| | |
|-------------|--------------------|
| ph_add_fpar | <i>append fpar</i> |
|-------------|--------------------|

Description

append fpar (a formatted paragraph) in a placeholder

Usage

```
ph_add_fpar(x, value, type = "body", id_chr = NULL, level = 1)
```

Arguments

| | |
|--------|---|
| x | a pptx device |
| value | fpar object |
| type | placeholder type |
| id_chr | placeholder id (a string). This is to be used when a placeholder type is not unique in the current slide, e.g. two placeholders with type 'body'. Values can be read from slide_summary . |
| level | paragraph level |

See Also

[fpar](#)

Examples

```
library(magrittr)

bold_face <- shortcuts$fp_bold(font.size = 30)
bold_redface <- update(bold_face, color = "red")

fpar_ <- fpar(ftext("Hello ", prop = bold_face),
  ftext("World", prop = bold_redface ),
  ftext(", how are you?", prop = bold_face ) )

doc <- read_pptx() %>%
  add_slide(layout = "Title and Content", master = "Office Theme") %>%
  ph_empty(type = "body") %>%
  ph_add_fpar(value = fpar_, type = "body", level = 2)

print(doc, target = "ph_add_fpar.pptx")
```

| | |
|------------|-------------------------|
| ph_add_par | <i>append paragraph</i> |
|------------|-------------------------|

Description

append a new empty paragraph in a placeholder

Usage

```
ph_add_par(x, type = NULL, id_chr = NULL, level = 1)
```

Arguments

| | |
|--------|---|
| x | a pptx device |
| type | placeholder type |
| id_chr | placeholder id (a string). This is to be used when a placeholder type is not unique in the current slide, e.g. two placeholders with type 'body'. Values can be read from slide_summary . |
| level | paragraph level |

Examples

```
library(magrittr)

fileout <- tempfile(fileext = ".pptx")
default_text <- fp_text(font.size = 0, bold = TRUE, color = "red")

doc <- read_pptx() %>%
  add_slide(layout = "Title and Content", master = "Office Theme") %>%
  ph_with_text(type = "body", str = "A text") %>%
  ph_add_par(level = 2) %>%
  ph_add_text(str = "and another, ", style = default_text ) %>%
  ph_add_par(level = 3) %>%
  ph_add_text(str = "and another!",
    style = update(default_text, color = "blue"))

print(doc, target = fileout)
```

| | |
|-------------|--------------------|
| ph_add_text | <i>append text</i> |
|-------------|--------------------|

Description

append text in a placeholder

Usage

```
ph_add_text(x, str, type = NULL, id_chr = NULL, style = fp_text(font.size
= 0), pos = "after", href = NULL)
```

Arguments

| | |
|--------|---|
| x | a pptx device |
| str | text to add |
| type | placeholder type |
| id_chr | placeholder id (a string). This is to be used when a placeholder type is not unique in the current slide, e.g. two placeholders with type 'body'. Values can be read from slide_summary . |
| style | text style, a fp_text object |
| pos | where to add the new element relative to the cursor, "after" or "before". |
| href | hyperlink |

Examples

```
library(magrittr)
fileout <- tempfile(fileext = ".pptx")
my_pres <- read_pptx() %>%
  add_slide(layout = "Title and Content", master = "Office Theme") %>%
  ph_empty(type = "body")

small_red <- fp_text(color = "red", font.size = 14)

my_pres <- my_pres %>%
  ph_add_par(level = 3) %>%
  ph_add_text(str = "A small red text.", style = small_red) %>%
  ph_add_par(level = 2) %>%
  ph_add_text(str = "Level 2")

print(my_pres, target = fileout)
```

| | |
|----------|------------------------------|
| ph_empty | <i>add a new empty shape</i> |
|----------|------------------------------|

Description

add a new empty shape in the current slide.

Usage

```
ph_empty(x, type = "title", index = 1)

ph_empty_at(x, left, top, width, height, bg = "transparent", rot = 0,
  template_type = NULL, template_index = 1)
```

Arguments

| | |
|----------------|---|
| x | a pptx device |
| type | placeholder type |
| index | placeholder index (integer). This is to be used when a placeholder type is not unique in the current slide, e.g. two placeholders with type 'body'. |
| left, top | location of the new shape on the slide |
| width, height | shape size in inches |
| bg | background color |
| rot | rotation angle |
| template_type | placeholder template type. If used, the new shape will inherit the style from the placeholder template. If not used, no text property is defined and for example text lists will not be indented. |
| template_index | placeholder template index (integer). To be used when a placeholder template type is not unique in the current slide, e.g. two placeholders with type 'body'. |

Examples

```

fileout <- tempfile(fileext = ".pptx")
doc <- read_pptx()
doc <- add_slide(doc, layout = "Title and Content", master = "Office Theme")
doc <- ph_empty(x = doc, type = "title")

print(doc, target = fileout )

# demo ph_empty_at -----
fileout <- tempfile(fileext = ".pptx")
doc <- read_pptx()
doc <- add_slide(doc, layout = "Title and Content", master = "Office Theme")
doc <- ph_empty_at(x = doc, left = 1, top = 2, width = 5, height = 4)

print(doc, target = fileout )

```

| | |
|-------------|---------------------------------------|
| ph_from_xml | <i>add an xml string as new shape</i> |
|-------------|---------------------------------------|

Description

Add an xml string as new shape in the current slide. This function is to be used to add custom openxml code.

Usage

```

ph_from_xml(x, value, type = "body", index = 1)

ph_from_xml_at(x, value, left, top, width, height)

```

Arguments

| | |
|---------------|---|
| x | a pptx device |
| value | a character |
| type | placeholder type |
| index | placeholder index (integer). This is to be used when a placeholder type is not unique in the current slide, e.g. two placeholders with type 'body'. |
| left, top | location of the new shape on the slide |
| width, height | shape size in inches |

| | |
|--------------|--------------------------------|
| ph_hyperlink | <i>hyperlink a placeholder</i> |
|--------------|--------------------------------|

Description

add hyperlink to a placeholder in the current slide.

Usage

```
ph_hyperlink(x, type = NULL, id_chr = NULL, href)
```

Arguments

| | |
|--------|---|
| x | a pptx device |
| type | placeholder type |
| id_chr | placeholder id (a string). This is to be used when a placeholder type is not unique in the current slide, e.g. two placeholders with type 'body'. Values can be read from slide_summary . |
| href | hyperlink (do not forget prefix http or https) |

Examples

```
fileout <- tempfile(fileext = ".pptx")
doc <- read_pptx()
doc <- add_slide(doc, layout = "Title and Content", master = "Office Theme")
doc <- ph_with_text(x = doc, type = "title", str = "Un titre 1")
doc <- add_slide(doc, layout = "Title and Content", master = "Office Theme")
doc <- ph_with_text(x = doc, type = "title", str = "Un titre 2")
doc <- on_slide(doc, 1)
slide_summary(doc) # read column id here
doc <- ph_hyperlink(x = doc, id_chr = "2",
  href = "https://cran.r-project.org")

print(doc, target = fileout )
```

| | |
|-----------|---------------------|
| ph_remove | <i>remove shape</i> |
|-----------|---------------------|

Description

remove a shape in a slide

Usage

```
ph_remove(x, type = NULL, id_chr = NULL)
```

Arguments

| | |
|--------|---|
| x | a pptx device |
| type | placeholder type |
| id_chr | placeholder id (a string). This is to be used when a placeholder type is not unique in the current slide, e.g. two placeholders with type 'body'. Values can be read from slide_summary . |

Examples

```
fileout <- tempfile(fileext = ".pptx")
doc <- read_pptx()
doc <- add_slide(doc, layout = "Title and Content", master = "Office Theme")
doc <- ph_with_text(x = doc, type = "title", str = "Un titre")
slide_summary(doc) # read column id here
doc <- ph_remove(x = doc, type = "title", id_chr = "2")

print(doc, target = fileout )
```

| | |
|--------------|------------------------------------|
| ph_slidelink | <i>slide link to a placeholder</i> |
|--------------|------------------------------------|

Description

add slide link to a placeholder in the current slide.

Usage

```
ph_slidelink(x, type = NULL, id_chr = NULL, slide_index)
```

Arguments

| | |
|-------------|---|
| x | a pptx device |
| type | placeholder type |
| id_chr | placeholder id (a string). This is to be used when a placeholder type is not unique in the current slide, e.g. two placeholders with type 'body'. Values can be read from slide_summary . |
| slide_index | slide index to reach |

Examples

```

fileout <- tempfile(fileext = ".pptx")
doc <- read_pptx()
doc <- add_slide(doc, layout = "Title and Content", master = "Office Theme")
doc <- ph_with_text(x = doc, type = "title", str = "Un titre 1")
doc <- add_slide(doc, layout = "Title and Content", master = "Office Theme")
doc <- ph_with_text(x = doc, type = "title", str = "Un titre 2")
doc <- on_slide(doc, 1)
slide_summary(doc) # read column id here
doc <- ph_slidelink(x = doc, id_chr = "2", slide_index = 2)

print(doc, target = fileout )

```

| | |
|-------------|------------------|
| ph_with_img | <i>add image</i> |
|-------------|------------------|

Description

add an image as a new shape in the current slide.

Usage

```
ph_with_img(x, src, type = "body", index = 1, width = NULL,
            height = NULL)
```

```
ph_with_img_at(x, src, left, top, width, height, rot = 0)
```

Arguments

| | |
|---------------|---|
| x | a pptx device |
| src | image path |
| type | placeholder type |
| index | placeholder index (integer). This is to be used when a placeholder type is not unique in the current slide, e.g. two placeholders with type 'body'. |
| width, height | image size in inches |
| left, top | location of the new shape on the slide |
| rot | rotation angle |

Examples

```

fileout <- tempfile(fileext = ".pptx")
doc <- read_pptx()
doc <- add_slide(doc, layout = "Title and Content", master = "Office Theme")

img.file <- file.path( Sys.getenv("R_HOME"), "doc", "html", "logo.jpg" )
if( file.exists(img.file) ){
  doc <- ph_with_img(x = doc, type = "body", src = img.file, height = 1.06, width = 1.39 )
}

print(doc, target = fileout )

fileout <- tempfile(fileext = ".pptx")
doc <- read_pptx()
doc <- add_slide(doc, layout = "Title and Content", master = "Office Theme")

img.file <- file.path( Sys.getenv("R_HOME"), "doc", "html", "logo.jpg" )
if( file.exists(img.file) ){
  doc <- ph_with_img_at(x = doc, src = img.file, height = 1.06, width = 1.39,
    left = 4, top = 4, rot = 45 )
}

print(doc, target = fileout )

```

| | |
|---------------|------------------|
| ph_with_table | <i>add table</i> |
|---------------|------------------|

Description

add a table as a new shape in the current slide.

Usage

```

ph_with_table(x, value, type = "title", index = 1, header = TRUE,
  first_row = TRUE, first_column = FALSE, last_row = FALSE,
  last_column = FALSE)

ph_with_table_at(x, value, left, top, width, height, header = TRUE,
  first_row = TRUE, first_column = FALSE, last_row = FALSE,
  last_column = FALSE)

```

Arguments

| | |
|-------|---|
| x | a pptx device |
| value | data.frame |
| type | placeholder type |
| index | placeholder index (integer). This is to be used when a placeholder type is not unique in the current slide, e.g. two placeholders with type 'body'. |

header display header if TRUE
 first_row, last_row, first_column, last_column
 logical for PowerPoint table options
 left, top location of the new shape on the slide
 width, height shape size in inches

Examples

```
library(magrittr)

doc <- read_pptx() %>%
  add_slide(layout = "Title and Content", master = "Office Theme") %>%
  ph_with_table(value = mtcars[1:6,], type = "body",
    last_row = FALSE, last_column = FALSE, first_row = TRUE)

print(doc, target = "ph_with_table.pptx")

library(magrittr)

doc <- read_pptx() %>%
  add_slide(layout = "Title and Content", master = "Office Theme") %>%
  ph_with_table_at(value = mtcars[1:6,],
    height = 4, width = 8, left = 4, top = 4,
    last_row = FALSE, last_column = FALSE, first_row = TRUE)

print(doc, target = "ph_with_table2.pptx")
```

| | |
|--------------|----------------------------------|
| ph_with_text | <i>add text into a new shape</i> |
|--------------|----------------------------------|

Description

add text into a new shape in a slide.

Usage

```
ph_with_text(x, str, type = "title", index = 1)
```

Arguments

| | |
|-------|---|
| x | a pptx device |
| str | text to add |
| type | placeholder type |
| index | placeholder index (integer). This is to be used when a placeholder type is not unique in the current slide, e.g. two placeholders with type 'body'. |

Examples

```

fileout <- tempfile(fileext = ".pptx")
doc <- read_pptx()
doc <- add_slide(doc, layout = "Title and Content", master = "Office Theme")
doc <- ph_with_text(x = doc, type = "title", str = "Un titre")
doc <- ph_with_text(x = doc, type = "ftr", str = "pied de page")
doc <- ph_with_text(x = doc, type = "dt", str = format(Sys.Date()))
doc <- ph_with_text(x = doc, type = "sldNum", str = "slide 1")

doc <- add_slide(doc, layout = "Title Slide", master = "Office Theme")
doc <- ph_with_text(x = doc, type = "subTitle", str = "Un sous titre")
doc <- ph_with_text(x = doc, type = "ctrTitle", str = "Un titre")

print(doc, target = fileout )

```

pptx_summary

*get PowerPoint content in a tidy format***Description**

read content of a PowerPoint document and return a tidy dataset representing the document.

Usage

```
pptx_summary(x)
```

Arguments

x an rpptx object

Examples

```

example_pptx <- system.file(package = "officer",
  "doc_examples/example.pptx")
doc <- read_pptx(example_pptx)
pptx_summary(doc)

```

read_docx

*open a connexion to a 'Word' file***Description**

read and import a docx file as an R object representing the document.

Usage

```
read_docx(path = NULL)

## S3 method for class 'rdocx'
print(x, target = NULL, ...)

## S3 method for class 'rdocx'
length(x)
```

Arguments

| | |
|--------|---|
| path | path to the docx file to use a base document. |
| x | a rdocx object |
| target | path to the docx file to write |
| ... | unused |

Examples

```
# create a rdocx object with default template ---
read_docx()

print(read_docx())
# write a rdocx object in a docx file ----
if( require(magrittr) ){
  read_docx() %>% print(target = "out.docx")
  # full path of produced file is returned
  print(.Last.value)
}

# how many element are there in the document ----
length( read_docx() )
```

read_pptx

open a connexion to a 'PowerPoint' file

Description

read and import a pptx file as an R object representing the document.

Usage

```
read_pptx(path = NULL)

## S3 method for class 'rpptx'
print(x, target = NULL, ...)

## S3 method for class 'rpptx'
length(x)
```

Arguments

| | |
|--------|---|
| path | path to the pptx file to use a base document. |
| x | an rpptx object |
| target | path to the pptx file to write |
| ... | unused |

number of slides

Function length will return the number of slides.

Examples

```
read_pptx()
# write a rdocx object in a docx file ----
if( require(magrittr) ){
  read_pptx() %>% print(target = "out.pptx")
  # full path of produced file is returned
  print(.Last.value)
}
```

| | |
|--------------|-----------------------|
| remove_slide | <i>remove a slide</i> |
|--------------|-----------------------|

Description

remove a slide from a pptx presentation

Usage

```
remove_slide(x, index = NULL)
```

Arguments

| | |
|-------|---|
| x | rpptx object |
| index | slide index, default to current slide position. |

Note

cursor is set on the last slide.

Examples

```
my_pres <- read_pptx()
my_pres <- add_slide(my_pres,
  layout = "Two Content", master = "Office Theme")

my_pres <- remove_slide(my_pres)
```

| | |
|--------------------|--------------------------------|
| set_doc_properties | <i>set document properties</i> |
|--------------------|--------------------------------|

Description

set Word or PowerPoint document properties. These are not visible in the document but are available as metadata of the document.

Usage

```
set_doc_properties(x, title = NULL, subject = NULL, creator = NULL,
  description = NULL, created = NULL)
```

Arguments

| | |
|--------------------------------------|-------------------------|
| x | a rdocx or rpptx object |
| title, subject, creator, description | text fields |
| created | a date object |

Note

Fields "last modified" and "last modified by" will be automatically be updated when file will be written.

Examples

```
library(magrittr)
read_docx() %>% set_doc_properties(title = "title",
  subject = "document subject", creator = "Me me me",
  description = "this document is empty",
  created = Sys.time()) %>% doc_properties()
```

| | |
|-----------|--|
| shortcuts | <i>shortcuts for formatting properties</i> |
|-----------|--|

Description

Shortcuts for fp_text, fp_par, fp_cell and fp_border.

Usage

```
shortcuts
```


Examples

```
shortcuts$fp_bold()
shortcuts$fp_italic()
shortcuts$b_null()
```

| | |
|---------------|--|
| slide_summary | <i>get PowerPoint slide content in a tidy format</i> |
|---------------|--|

Description

get content and positions of current slide into a data.frame. If any table, image or paragraph, data is imported into the resulting data.frame.

Usage

```
slide_summary(x, index = NULL)
```

Arguments

| | |
|-------|--------------|
| x | rpptx object |
| index | slide index |

Examples

```
library(magrittr)

my_pres <- read_pptx() %>%
  add_slide(layout = "Two Content", master = "Office Theme") %>%
  ph_with_text(type = "dt", str = format(Sys.Date())) %>%
  add_slide(layout = "Title and Content", master = "Office Theme")

slide_summary(my_pres)
slide_summary(my_pres, index = 1)
```

| | |
|-------------|------------------------|
| slip_in_img | <i>append an image</i> |
|-------------|------------------------|

Description

append an image into a paragraph of an rdocx object

Usage

```
slip_in_img(x, src, style = NULL, width, height, pos = "after")
```

Arguments

| | |
|--------|---|
| x | an rdocx object |
| src | image filename |
| style | text style |
| width | height in inches |
| height | height in inches |
| pos | where to add the new element relative to the cursor, "after" or "before". |

Examples

```
library(magrittr)
img.file <- file.path( Sys.getenv("R_HOME"), "doc", "html", "logo.jpg" )
x <- read_docx() %>%
  body_add_par("R logo: ", style = "Normal") %>%
  slip_in_img(src = img.file, style = "strong", width = .3, height = .3)

print(x, target = "append_img.docx")
```

| | |
|------------------|-------------------------|
| slip_in_seqfield | <i>append seq field</i> |
|------------------|-------------------------|

Description

append seq field into a paragraph of an rdocx object

Usage

```
slip_in_seqfield(x, str, style = NULL, pos = "after")
```

Arguments

| | |
|-------|---|
| x | an rdocx object |
| str | seq field value |
| style | text style |
| pos | where to add the new element relative to the cursor, "after" or "before". |

Examples

```
library(magrittr)
x <- read_docx() %>%
  body_add_par("Time is: ", style = "Normal") %>%
  slip_in_seqfield(
    str = "TIME \u005C@ \"HH:mm:ss\" \u005C* MERGEFORMAT",
    style = 'strong') %>%
  body_add_par(" - This is a figure title", style = "centered") %>%
```

```

slip_in_seqfield(str = "SEQ Figure \u005C* roman",
  style = 'Default Paragraph Font', pos = "before") %>%
slip_in_text("Figure: ", style = "strong", pos = "before") %>%

body_add_par(" - This is another figure title", style = "centered") %>%
slip_in_seqfield(str = "SEQ Figure \u005C* roman",
  style = 'strong', pos = "before") %>%
slip_in_text("Figure: ", style = "strong", pos = "before") %>%
body_add_par("This is a symbol: ", style = "Normal") %>%
slip_in_seqfield(str = "SYMBOL 100 \u005Cf Wingdings",
  style = 'strong')

print(x, target = "seqfield.docx")

```

slip_in_text

append text

Description

append text into a paragraph of an rdocx object

Usage

```
slip_in_text(x, str, style = NULL, pos = "after")
```

Arguments

| | |
|-------|---|
| x | an rdocx object |
| str | text |
| style | text style |
| pos | where to add the new element relative to the cursor, "after" or "before". |

Examples

```

library(magrittr)
x <- read_docx() %>%
  body_add_par("Hello ", style = "Normal") %>%
  slip_in_text("world", style = "strong") %>%
  slip_in_text("Message is", style = "strong", pos = "before")

print(x, target = "append_run.docx")

```

| | |
|-------------|--|
| slip_in_xml | <i>add a wml string into a Word document</i> |
|-------------|--|

Description

The function add a wml string into the document after, before or on a cursor location.

Usage

```
slip_in_xml(x, str, pos)
```

Arguments

| | |
|-----|---|
| x | an rdocx object |
| str | a wml string |
| pos | where to add the new element relative to the cursor, "after" or "before". |

| | |
|-------------|-------------------------|
| styles_info | <i>read Word styles</i> |
|-------------|-------------------------|

Description

read Word styles and get results in a tidy data.frame.

Usage

```
styles_info(x)
```

Arguments

| | |
|---|----------------|
| x | a rdocx object |
|---|----------------|

Examples

```
library(magrittr)
read_docx() %>% styles_info()
```

| | |
|---------------|--------------------------------------|
| unpack_folder | <i>Extract files from a zip file</i> |
|---------------|--------------------------------------|

Description

Extract files from a zip file to a folder. The function returns the complete path to destination folder.

Usage

```
unpack_folder(file, folder)
```

Arguments

| | |
|--------|------------------------------|
| file | path of the archive to unzip |
| folder | folder to create |

Details

The function is using [unzip](#), it needs an unzip program.

| | |
|-----------------|---|
| wml_link_images | <i>transform an xml string with images references</i> |
|-----------------|---|

Description

The function replace images filenames in an xml string with their id. The wml code cannot be valid without this operation.

Usage

```
wml_link_images(x, str)
```

Arguments

| | |
|-----|-----------------|
| x | an rdocx object |
| str | wml string |

Details

The function is available to let the creation of valid wml code containing references to images.

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