

Package ‘r2pptx’

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Type Package

Title Object Oriented R -> PowerPoint

Version 0.1.0

Description Provides a friendly, object oriented API for creating PowerPoint slide decks in R.

URL <https://mattle24.github.io/r2pptx/>,
<https://github.com/mattle24/r2pptx>

BugReports <https://github.com/mattle24/r2pptx/issues>

License GPL-3

Encoding UTF-8

RoxygenNote 7.1.1

Depends methods, R (>= 3.6.0)

Imports glue, officer

Suggests datasets, ggplot2, testthat (>= 3.0.0), knitr, rmarkdown

Collate 'location.R' 'generics.R' 'element.R' 'slide.R'
'presentation.R' 'methods.R' 'utils.R' 'zzz.R'

Config/testthat/edition 3

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+,R2Pptx,R2PptxSlide-method
Add R2Pptx slide

Description

Add an ‘R2PptxSlide’ object to something else compatible.

Usage

```
## S4 method for signature 'R2Pptx,R2PptxSlide'
e1 + e2
```

Arguments

e1 An object that a slide can be added to, such as an ‘R2PptxPresentation’, ‘R2PptxSlide’, or ‘R2PptxSlideList’.

e2 ‘R2PptxSlide’ object

Value

If e1 is an object of class R2PptxPresentation then returns an object of class R2PptxPresentation. Otherwise returns an object of class R2PptxSlideList

+,R2PptxSlide,R2PptxElement-method
Add element to slide

Description

Add an R2PptxElement object to an R2PptxSlide object.

Usage

```
## S4 method for signature 'R2PptxSlide,R2PptxElement'  
e1 + e2
```

Arguments

e1	R2PptxSlide object
e2	R2PptxElement object

Value

An object of class R2PptxSlide, which is e1 with an additional element e2

+,R2PptxSlide,R2PptxSlideList-method
Add slide to slidelist

Description

Add slide to slidelist

Usage

```
## S4 method for signature 'R2PptxSlide,R2PptxSlideList'  
e1 + e2
```

Arguments

e1	R2PptxSlide object
e2	R2PptxSlideList object

Value

An object of class R2PptxSlideList which is the R2PptxSlideList list e1 with an additional slide which is e2.

`+,R2PptxSlideList,R2PptxSlideList-method`
Add slidelist to slidelist

Description

Add slidelist to slidelist

Usage

```
## S4 method for signature 'R2PptxSlideList,R2PptxSlideList'
e1 + e2
```

Arguments

e1	R2PptxSlideList object
e2	R2PptxSlideList object

Value

An object of class R2PptxSlideList which is e1 with additional slides (all the slides in e2).

`get_layouts` *Get layouts*

Description

A thin wrapper around `officer::layout_summary()` to get layouts for R2PpplxPresentation objects.

Usage

```
get_layouts(x)
```

Arguments

x	R2PpplxPresentation object
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Value

An object of class `data.frame` with fields for the layout name and the name of the slide theme (master).

get_layout_properties *Gets layout properties*

Description

A thin wrapper around `officer::plot_layout_properties()` to get layouts properties for `R2PptxPresentation` objects.

Usage

```
get_layout_properties(x, layout)
```

Arguments

x	R2PptxPresentation object
layout	character. Name of the layout to see properties for.

Value

An object of class `data.frame` with fields for placeholder attributes and one row per placeholder element.

get_slides,R2PptxSlideList-method
method to get slides

Description

method to get slides

Usage

```
## S4 method for signature 'R2PptxSlideList'  
get_slides(x)
```

Arguments

x	R2PptxSlideList object
---	------------------------

Value

List, a list of `R2PptxSlide` objects.

length, R2PptxSlide-method
Get slide length

Description

Returns the number of elements in a slide

Usage

```
## S4 method for signature 'R2PptxSlide'
length(x)

## S4 method for signature 'R2PptxPresentation'
length(x)
```

Arguments

x 'R2PptxSlide' object

Value

Integer, number of elements in the R2PptxSlide object
Integer, the number of slides in the presentation.

new_element *New Element*

Description

Make a new 'R2PptxElement'. Element represent text, a flextable, an image, a ggplot2, etc to add to a slide.

Usage

```
new_element(key, value)
```

Arguments

key character. Name of the placeholder label for this element.
value object. Object to put into a PowerPoint slide, eg text or a plot.

Value

An object of class R2PptxElement representing something to put on a slide.

new_presentation	<i>New Presentation</i>
------------------	-------------------------

Description

Make a new ‘R2PptxPresentation’. Presentations represent PowerPoint decks.

Usage

```
new_presentation(
  template_path = getOption("default_pptx_template"),
  slides = list()
)
```

Arguments

`template_path` character. Path of the file that has the PowerPoint template to use. Defaults to path set in ‘options("default_pptx_template")’

`slides` list. Optional. List of slides to initiate the presentation with.

Value

An object of class R2PptxPresentation representing a future PowerPoint presentation.

new_slide	<i>New slide</i>
-----------	------------------

Description

Make a ‘R2PptxSlide’ object representing a PowerPoint slide.

Usage

```
new_slide(layout, elements = list())
```

Arguments

`layout` character. Name of the PowerPoint layout to use for this slide.

`elements` list. List of ‘R2PptxElements’ to initialize the slide with. Defaults to empty list.

Value

An object of class R2PptxSlide representing a future PowerPoint slide.

new_slidelist	<i>New slide list</i>
---------------	-----------------------

Description

Make a R2PptxSlideList object representing a list of PowerPoint slides

Usage

```
new_slidelist(slides = list())
```

Arguments

slides	list. List of R2PptxSlide objects to initialize the list with. Defaults to empty list.
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Value

An object of class R2PptxSlideList representing a list of R2pptxSlide object.

plot_layout	<i>Plot layout</i>
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Description

A thin wrapper around `officer::plot_layout_properties()` to plot layouts for R2PpptxPresentation objects.

Usage

```
plot_layout(x, layout)
```

Arguments

x	R2PpptxPresentation object
layout	character. Name of the layout to see properties for.

Value

No return value, called for side effects

R2PptxElement-class *Element*

Description

An S4 class to represent text, a flextable, an image, a ggplot2, etc we add to a slide.

R2PptxLocation-class *Location*

Description

A Location is used to place an element on a slide. For now this will just be a placeholder name, but eventually it could expand to be an arbitrary location

R2PptxPresentation-class
Presentation

Description

An S4 class to represent a PowerPoint presentation.

Slots

slides list. List of 'R2PptxSlide' objects.

template_path character. File path to the PowerPoint template used for this presentation.

R2PptxSlide-class *Slide*

Description

An S4 class to represent a PowerPoint slide

Slots

layout character. Name of the PowerPoint layout to use for this slide.

elements list. List of 'R2PptxElement' objects.

R2PptxSlideList-class *Slide list*

Description

R2PptxSlideList is an S4 class to contain groups of R2PptxSlide objects that are not part of a presentation. It is meant to be used to create lists of slides and then be able to add the list easily to a presentation.

Slots

slides list. A list of R2PptxSlide objects

template_path	<i>Get template path</i>
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Description

Get template path

Usage

```
template_path(x)

## S4 method for signature 'R2PptxPresentation'
template_path(x)
```

Arguments

x object to get the template path for.

Value

Character, the file path this R2PptxPresentation points to.

Methods (by class)

- R2PptxPresentation: Get the template path of an R2PptxPresentation object.

template_path<-	<i>Set template path</i>
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Description

Set template path

Usage

```
template_path(x) <- value

## S4 replacement method for signature 'R2PptxPresentation'
template_path(x) <- value
```

Arguments

x	object to set the template path of.
value	character. File path of the new template

Value

The R2PptxPresentation object x with the changed template path.

Functions

- `template_path<-`, R2PptxPresentation-method: Set the template path of an R2PptxPresentation object.

write_pptx	<i>Write pptx</i>
------------	-------------------

Description

Write an object to a '.pptx' file.

Usage

```
write_pptx(x, path)

## S4 method for signature 'R2PptxPresentation'
write_pptx(x, path)
```

Arguments

x	object
path	character. File path to write to.

Value

Returns the R2PptxPresentation object given to the function.

Methods (by class)

- R2PptxPresentation: Write a presentation to a '.pptx' file

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