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.


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Author Matt Lehman [aut, cre]
Maintainer Matt Lehman <mhlehman24@gmail.com>
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Add R2Pptx slide

Description

Add an ‘R2PptxSlide’ object to something else compatible.

Usage

```r
## 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
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

Description

Add slide to slidelist

Usage

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

Arguments

e1 PR2PptxSlide object
e2 R2PptxSlideList object

Value

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

**Description**

A thin wrapper around officer::layout_summary() to get layouts for R2PpptxPresentation objects.

**Usage**

get_layouts(x)

**Arguments**

x R2PpptxPresentation object

**Value**

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

---

### +,R2PptxSlideList,R2PptxSlideList-method

*Add slidelist to slidelist*

**Description**

Add slidelist to slidelist

**Usage**

```r
## 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_layout_properties  Gets layout properties

Description
A thin wrapper around officer::plot_layout_properties() to get layouts properties for R2PpptxPresentation objects.

Usage
get_layout_properties(x, layout)

Arguments
x  R2PpptxPresentation 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.
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.

---

**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_presentation

new_presentation

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

new_slide

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 | New slide list

Description
Make a R2PpptxSlideList 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.

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

plot_layout | Plot layout

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 An 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  Get template path

Description

Get template path

Usage

```r
template_path(x)
```

## S4 method for signature 'R2PptxPresentation'
```r
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**

*Set template path*

**Description**

Set template path

**Usage**

`template_path(x) <- value`

```r
## 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**

*Write pptx*

**Description**

Write an object to a `.pptx` file.

**Usage**

`write_pptx(x, path)`

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

**Arguments**

- **x** object
- **path** character. File path to write to.
Value
Returns the \texttt{R2PptxPresentation} object given to the function.

Methods (by class)
- \texttt{R2PptxPresentation}: Write a presentation to a '.pptx' file
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