

Package ‘powerup’

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Title Power Up Your PowerPoint Presentations

Version 0.3.1

Description Programmatically interact with new or existing 'Microsoft PowerPoint' documents, by adding new slides, updating existing slides, and inserting displays into specific locations in slides.

Users can also add transition effects to slides, and add displays to specific locations in slides by pointing to specific placeholders or creating new ones.
Preview the slides in a local viewer.

License Apache License (>= 2)

URL <https://gsk-biostatistics.github.io/powerup/>,
<https://github.com/GSK-Biostatistics/powerup/>

BugReports <https://github.com/GSK-Biostatistics/powerup/issues/>

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add_slide	<i>Working with Slides</i>
-----------	----------------------------

Description

add_slide() Adds a new slide at a specified position, and populate it with content from

update_slide() updates an existing slide from a specific index and populate it with content from

move_slide() moves the slide from one index to another.

delete_slide() deletes the slide based on the index.

Usage

```
add_slide(  
  pptx,  
  layout,  
  ...,  
  index,  
  transition = NULL,  
)
```

```

    polish_error_continue = TRUE,
    error_call = current_env()
  )

delete_slide(pptx, index, error_call = current_env())

move_slide(pptx, index, to, error_call = current_env())

update_slide(
  pptx,
  index,
  ...,
  transition = NULL,
  polish_error_continue = TRUE,
  error_call = current_env(),
  verbose = getOption("powerup.verbose", default = TRUE)
)

```

Arguments

pptx	A PowerPoint wrapped in a <pptx_container> object. see load_pptx()
layout	slide layout to use when creating a slide in <code>add_slide()</code>
...	content objects created with content()
index	slide index. By default <code>add_slide()</code> creates a new slide at the end of the slide deck.
transition	Defines the type of transition to use when moving to this slide. See <code>?slide_transitions</code> to see viable values.
polish_error_continue	Boolean indicating if when an error is throwing in either polishing or converting the placeholder if it should be propagated as an error (FALSE) or just inform the user and continue (TRUE). Defaults to TRUE.
error_call	The execution environment of a currently running function, e.g. <code>caller_env()</code> . The function will be mentioned in error messages as the source of the error. See the <code>call</code> argument of abort() for more information.
to	new index to move the slide to
verbose	if TRUE, some information is cli::cli_inform() ed along the way

Value

a pptx_container object with the slide added, updated, moved, or deleted

Examples

```

library(powerup)

## Create a new presentation
ppt <- load_pptx()

```

```
## adding new slides
ppt <- ppt |>
  ## add first slide with content in title
  add_slide(layout = "Title and Content",
    content("hello world", ph = ph_title())
  ) |>
  ## add another slide with nothing on it yet
  add_slide(layout = "Title and Content") |>
  ## slide added at index 2 with content in title and body
  add_slide(layout = "Title and Content",
    index = 2,
    content("Hello World", ph = ph_title()),
    content("This is a body", ph = ph_body())
  )

## updating an existing slide wit new content
ppt <- ppt |>
  update_slide(index = 1,
    content("This placeholder now has a value", ph = ph_body())
  )

## moving a slide from index 2 to index 1
ppt <- ppt |>
  move_slide(index = 2, to = 1)

## deleting a slide at index 3
ppt <- ppt |>
  delete_slide(index = 3)
```

add_table_style

Add Table Style

Description

Given a provided table style, add it to the tableStyle file in the document. this makes it available to tables that get added to the PowerPoint as a table style option

Usage

```
add_table_style(
  pptx,
  table_style,
  verbose = getOption("powerup.verbose", default = FALSE),
  error_call = caller_env()
)
```

Arguments

pptx	A PowerPoint wrapped in a <pptx_container> object. see load_pptx()
table_style	an xml_node that defines a tblStyle. Created by new_table_style() .
verbose	if TRUE, some information is cli::cli_inform() ed along the way
error_call	The execution environment of a currently running function, e.g. caller_env() . The function will be mentioned in error messages as the source of the error. See the call argument of abort() for more information.

Value

a pptx_container object with the new table style added

Examples

```
pptx <- example_pptx()
table_style <- new_table_style("My New Style")
pptx <- add_table_style(pptx, table_style) #'
```

content

Add or remove content from a slide

Description

[content\(\)](#) lets a user specify a value to add to a slide, and the location on the slide to add it through the ph argument. ph defines the placeholder, or height, width, x and y offset of the bounding box where the content should be added.

Usage

```
content(
  value,
  ph = ph_body(),
  metadata = NULL,
  ...,
  group_contents = TRUE,
  error_call = current_env()
)

remove_content(ph, error_call = current_env())
```

Arguments

value	value to be polished and then added at the placeholder defined
ph	Defining where values should be added to or removed from. Must be a placeholder object
metadata	named character vector of metadata to store in the <code>p:extLst/p:ext/custom:meta/custom:metadata</code> nodes
...	Additional arguments forwarded to the <code>polish::polish_content_pptx()</code> method for value's class. For example, <code>ggplot</code> objects accept <code>height</code> , <code>width</code> , <code>res</code> , <code>device</code> , and <code>scale</code> ; character objects accept <code>font_color</code> , <code>font_size</code> , <code>font_style</code> , and <code>font_typeface</code> . See <code>polish::polish_content_pptx()</code> for the full list per content type.
group_contents	boolean indicating if the polished value should be shown in the PowerPoint as a grouped Sp. The default, and for most cases, <code>TRUE</code> .
error_call	The execution environment of a currently running function, e.g. <code>caller_env()</code> . The function will be mentioned in error messages as the source of the error. See the <code>call</code> argument of <code>abort()</code> for more information.

Details

`remove_content()` on the other hand, lets users specify a placeholder with content that should be removed from the slide using the same placeholder nomenclature. The placeholder must exist in the slide to be removed.

Any named arguments passed via `...` are forwarded to the appropriate `polish::polish_content_pptx()` method when the content is rendered into the slide. The available arguments depend on the class of value.

Value

a `powerup_content` object for `content()` and a `remove_powerup_content` object for `remove_content()`

See Also

`polish::polish_content_pptx()` for the full set of polishing arguments available per content type.

Examples

```
content("My Title 2", ph = ph_title())
content(mtcars, ph = ph_body())

# Pass polishing args for a ggplot (controls rendered dimensions)
content(
  ggplot2::ggplot(mtcars, ggplot2::aes(wt, mpg)) + ggplot2::geom_point(),
  ph = ph_body(),
  height = 3,
  width = 5
)
```

```
# Pass polishing args for character content (font styling)
content("My Title", ph = ph_title(), font_size = 24, font_color = "#C00000")

remove_content(ph = ph_title())
remove_content(ph = ref_placeholder(label = "An Existing Placeholder"))
```

`extract_metadata_element`*Extract metadata element*

Description

Extract metadata element

Usage

```
extract_metadata_element(metadata, name = "name", empty = "<display>")
```

Arguments

<code>metadata</code>	named character vector
<code>name</code>	name of element to extract
<code>empty</code>	synonyms for ""

Value

the value of the metadata element, or "" if not found

Examples

```
m <- c(foo = "abc", bar = "def")
extract_metadata_element(m, name = "foo")
extract_metadata_element(m, name = "bar", empty = "def") ## return ""
```

get_slide_file_name *Get the file name for a given slide*

Description

Get the file name for a given slide

Usage

```
get_slide_file_name(pptx, index, error_call = current_env())
```

Arguments

pptx	A PowerPoint wrapped in a <pptx_container> object. see load_pptx()
index	slide index
error_call	The execution environment of a currently running function, e.g. <code>caller_env()</code> . The function will be mentioned in error messages as the source of the error. See the call argument of abort() for more information.

Value

The file name for the slide, as a character string

Examples

```
pptx <- example_pptx()
get_slide_file_name(pptx, index = 1)
```

get_table_styles *List Table Styles*

Description

List the available table styles within the document

Usage

```
get_table_styles(pptx)
```

Arguments

pptx	A PowerPoint wrapped in a <pptx_container> object. see load_pptx()
------	--

Value

A data frame with columns `style_id` and `style_name` for each table style in the presentation.

Examples

```
pptx <- example_pptx()
get_table_styles(pptx)
```

<code>list_layouts</code>	<i>List layouts</i>
---------------------------	---------------------

Description

List layouts

Usage

```
list_layouts(pptx, error_call = current_env())
```

Arguments

<code>pptx</code>	A PowerPoint wrapped in a <code><pptx_container></code> object. see load_pptx()
<code>error_call</code>	The execution environment of a currently running function, e.g. <code>caller_env()</code> . The function will be mentioned in error messages as the source of the error. See the <code>call</code> argument of abort() for more information.

Value

A tibble with information about the layouts

Examples

```
list_layouts(load_pptx())
```

list_placeholders	<i>List the available placeholders in a slide or a given layout</i>
-------------------	---

Description

List the available placeholders in a slide or a given layout

Usage

```
list_placeholders(
  pptx,
  index = NULL,
  layout = NULL,
  units = c("in", "cm"),
  keep_all = FALSE,
  error_call = current_env()
)
```

Arguments

pptx	A PowerPoint wrapped in a <pptx_container> object. see load_pptx()
index	Slide index
layout	the name of the layout in the PowerPoint. Overridden if index is provided
units	"in" or "cm", what units should be used for the values presented (offsets, dimensions)
keep_all	Keep all the placeholders (TRUE), or only the ones with a \<ph\> node (FALSE)
error_call	The execution environment of a currently running function, e.g. <code>caller_env()</code> . The function will be mentioned in error messages as the source of the error. See the call argument of abort() for more information.

Value

a placeholder_tbl object with the available placeholders in the slide or layout

Examples

```
pptx <- example_pptx()

# what are the available placeholders on the slides
list_placeholders(pptx, layout = "Two Content")
list_placeholders(pptx, index = 2)
```

list_slides	<i>List slides</i>
-------------	--------------------

Description

List slides

Usage

```
list_slides(pptx, keep_all = FALSE, error_call = current_env())
```

Arguments

pptx	A PowerPoint wrapped in a <pptx_container> object. see load_pptx()
keep_all	if FALSE, only keep non missing placeholders
error_call	The execution environment of a currently running function, e.g. <code>caller_env()</code> . The function will be mentioned in error messages as the source of the error. See the <code>call</code> argument of abort() for more information.

Value

A tibble with information about the slides

Examples

```
list_slides(load_pptx())
```

load_pptx	<i>Load/Save a PowerPoint file</i>
-----------	------------------------------------

Description

Load/Save a PowerPoint file

Usage

```
load_pptx(path = NULL, name)

slide_errors(pptx)

save_pptx(pptx, path, error_call = current_env())

example_pptx()
```

Arguments

path	output path of file to be saved
name	name of the file
pptx	A PowerPoint wrapped in a <pptx_container> object. see load_pptx()
error_call	The execution environment of a currently running function, e.g. <code>caller_env()</code> . The function will be mentioned in error messages as the source of the error. See the call argument of abort() for more information.

Details

`slide_errors()` Extract a tibble of errors that occurred when adding and updating slides

Value

`load_pptx()` returns a new `pptx_container` object that wraps objects created by `officer::read_pptx()` with custom functionality for powerup.

Examples

```
pptx <- load_pptx(system.file("ref_files/standard_powerpoint.pptx", package = "powerup"))

pptx2<- load_pptx()
```

metadata	<i>extended properties metadata</i>
----------	-------------------------------------

Description

extended properties metadata

Usage

```
metadata(data, uri = "r://package/powerup", error_call = current_env())
```

Arguments

data	Named character vector used as name= and value= for the custom:property nodes.
uri	uri, used in the p:ext node
error_call	The execution environment of a currently running function, e.g. <code>caller_env()</code> . The function will be mentioned in error messages as the source of the error. See the call argument of abort() for more information.

Value

a p:extLst tag

Examples

```
metadata(c(foo = "abc", bar = "def"))
```

new_table_style	Create a new table style node
-----------------	-------------------------------

Description

Helper function to make it simple to define a table style node.

Usage

```
new_table_style(  
  style_name,  
  style_id = make_style_id(),  
  text_color = "#000000",  
  cell_color = "#f36633",  
  border_color = "#959595",  
  border_style = "sng",  
  border_weight = 12700,  
  row_header_text_color = text_color,  
  row_total_text_color = text_color,  
  col_first_text_color = text_color,  
  col_last_text_color = text_color,  
  row_header_cell_color = cell_color,  
  row_total_cell_color = cell_color,  
  col_first_cell_color = cell_color,  
  col_last_cell_color = cell_color,  
  cell_color_tint1 = tint_color(cell_color, tint = 0.4),  
  cell_color_tint2 = tint_color(cell_color, tint = 0.2),  
  major_border_color = border_color,  
  major_border_style = border_style,  
  major_border_weight = border_weight * 3,  
  error_call = caller_env()  
)
```

Arguments

style_name	The new name of the style. This is what will be referenced when defining the table style..
style_id	a unique string containing 8, 4, 4, 4, then 12 random values between A-F and 0-9, separated by dashes: <code>\\{[0-9A-F]{8}-[0-9A-F]{4}-[0-9A-F]{4}-[0-9A-F]{4}-[0-9A-F]{12}\\}</code>

`text_color`, `cell_color`, `border_color`, `row_header_text_color`,
`row_total_text_color`, `col_first_text_color`, `col_last_text_color`,
`row_header_cell_color`, `row_total_cell_color`, `col_first_cell_color`,
`col_last_cell_color`, `cell_color_tint1`, `cell_color_tint2`,
`major_border_color`
 either a color name (as listed by `colors()`), a hexadecimal string
`border_style`, `major_border_style`
 Define how borders should be styled. Options include: "sng", "dbl", "thickThin", "thinThick", "tri"
`border_weight`, `major_border_weight`
 Define the thickness of the borders. Must be a value between 0 and 20116800.
`error_call` The execution environment of a currently running function, e.g. `caller_env()`.
 The function will be mentioned in error messages as the source of the error. See
 the `call` argument of `abort()` for more information.

Value

An `xml_node` that defines a `tblStyle`. Added to a PowerPoint via `add_table_style()`.

Examples

```
example_table_style <- new_table_style("Example Style", text_color = "blue", border_color = "pink")
```

```
polish_content_pptx.preset_shape
```

Polish fit models

Description

Polish fit models

Usage

```
## S3 method for class 'preset_shape'
polish_content_pptx(x, ph = "<p:ph/>", pptx, ..., error_call = current_env())
```

Arguments

`x` preset_shape object to polish
`ph` placeholder
`pptx` The Powerpoint Presentation object
`...` These dots are for future extensions and must be empty.
`error_call` The execution environment of a currently running function, e.g. `caller_env()`.
 The function will be mentioned in error messages as the source of the error. See
 the `call` argument of `abort()` for more information.

Value

a "polish_xml_nodeset" of viable PowerPoint 'OOXML' for addition to PowerPoint presentations representing a polished preset_shape object

Examples

```
pptx <- example_pptx() |>
  add_slide(
    layout = "Title and Content",
    content(shape("rightArrow", fill = "#000000", outline = "#ffffff"), ph = ph_title()),
    content(shape("heart", fill = "#ffffff", outline = "#000000"), ph = ph_body()),
    content(
      shape("funnel"),
      ph = new_placeholder(x_offset = "10%", y_offset="20%", height = "20%", width="22%")
    )
  )

file <- tempfile(fileext = ".pptx")
pptx |> save_pptx(file)
```

```
preview_pptx
```

```
Preview a powerup PPTX in the Viewer pane
```

Description

Renders a pptx_container (or a path to a .pptx file) as an interactive slide viewer in the RStudio / Positron Viewer pane, or in the default browser. Uses PptxViewJS (bundled offline; no internet connection required).

Usage

```
preview_pptx(pptx, slide = 1L, view = rlang::is_interactive())
```

Arguments

pptx	A pptx_container object or a file path to a .pptx file.
slide	Integer. Which slide to show first (1-based). Default 1.
view	Logical. If TRUE (default), opens the viewer. If FALSE, returns the html.

Value

An htmltools::browsable HTML object (invisibly). Called for its side-effect of opening the viewer.

Examples

```
## Not run:
pptx <- example_pptx()
preview_pptx(pptx)

## End(Not run)
```

read_layout_placeholders

Read layout placeholders

Description

Read layout placeholders

Usage

```
read_layout_placeholders(
  pptx,
  layout,
  keep_all = FALSE,
  error_call = current_env()
)
```

Arguments

pptx	A PowerPoint wrapped in a <pptx_container> object. see load_pptx()
layout	layout
keep_all	if FALSE, only keep non missing placeholders
error_call	The execution environment of a currently running function, e.g. <code>caller_env()</code> . The function will be mentioned in error messages as the source of the error. See the call argument of abort() for more information.

Value

A tibble with columns describing the layout placeholders:

layout_file	character; basename of the layout file
layout_name	character; name of the layout
id	character; placeholder id
offx	numeric; x offset in inches
offy	numeric; y offset in inches
cx	numeric; width in inches
cy	numeric; height in inches

ph_type character; placeholder type
 ph character; placeholder XML node as glue object
 ph_id character; placeholder idx attribute
 layout_ph_name character; placeholder name

The tibble has a dimensions attribute containing the slide size.

Examples

```
pptx <- example_pptx()
read_layout_placeholders(pptx, layout = "Title Slide")
```

read_slide	<i>Read a single slide as xml</i>
------------	-----------------------------------

Description

Read a single slide as xml

Usage

```
read_slide(pptx, index, error_call = current_env())
```

Arguments

pptx A PowerPoint wrapped in a <pptx_container> object. see [load_pptx\(\)](#)
 index slide index
 error_call The execution environment of a currently running function, e.g. caller_env().
 The function will be mentioned in error messages as the source of the error. See
 the call argument of [abort\(\)](#) for more information.

Value

The slide, as read by [xml2::read_xml](#)

Examples

```
ppt <- example_pptx()
read_slide(ppt, index = 1)
```

read_slide_placeholders

Read placeholders information from PowerPoint presentation

Description

Read placeholders information from PowerPoint presentation

Usage

```
read_slide_placeholders(
  pptx,
  index,
  only_slide = FALSE,
  only_layout = FALSE,
  keep_all = FALSE,
  error_call = current_env()
)
```

Arguments

pptx	A PowerPoint wrapped in a <pptx_container> object. see load_pptx()
index	slide index
only_slide	if TRUE only extract placeholders from the slide, i.e. not from its associated layout
only_layout	if TRUE only extract placeholders from the layout, i.e. not occupied in the slide
keep_all	if FALSE, only keep non missing placeholders
error_call	The execution environment of a currently running function, e.g. <code>caller_env()</code> . The function will be mentioned in error messages as the source of the error. See the <code>call</code> argument of abort() for more information.

Value

A tibble with columns describing the placeholders:

slide_index	numeric; slide index
slide_file	character; basename of the slide file
layout_file	character; basename of the layout file
layout_name	character; name of the layout
id	character; placeholder id
offx	numeric; x offset in inches
offy	numeric; y offset in inches
cx	numeric; width in inches

cy	numeric; height in inches
ph_type	character; placeholder type
ph	character; placeholder XML node as glue object
ph_id	character; placeholder idx attribute
slide_ph_name	character; placeholder name from slide
slide_ph_id	character; placeholder id from slide
layout_ph_name	character; placeholder name from layout
metadata	list; metadata extracted from placeholder

The tibble has a dimensions attribute containing the slide size.

Examples

```
ppt <- example_pptx()
read_slide_placeholders(ppt)
read_slide_placeholders(ppt, index = 1)
read_slide_placeholders(ppt, index = 1:2)

read_slide_placeholders(ppt, only_slide = TRUE)
read_slide_placeholders(ppt, index = 2, only_slide = TRUE)
```

ref_placeholder	<i>Placeholder object</i>
-----------------	---------------------------

Description

Object to define placeholders.

Usage

```
ref_placeholder(
  label = "",
  label_match = c("exact", "match"),
  label_from = c("slide", "layout"),
  type = c("body", "title", "ctrTitle", "ftr", "subTitle", "tbl", "chart", "img", "any"),
  tie_breaker = c("largest", "smallest", "left", "right", "top", "bottom"),
  replace = TRUE,
  error_call = current_env()
)

new_placeholder(
  type = c("body", "title", "ctrTitle", "ftr", "subTitle", "tbl", "chart", "img"),
  x_offset = "10%",
  y_offset = "20%",
  width = "80%",
```

```

    height = "60%",
    label = "",
    error_call = current_env()
  )

```

Arguments

label	The placeholder label to select. <code>ref_placeholder</code> allows to pass a pattern to search with if <code>label_match</code> is set to "match".
label_match	Use "match" if label is a regex pattern, or "exact" for exact match. Defaults to "exact".
label_from	Which placeholder label should be used, the one listed in the "slide" or from the "layout". Generally new slides should use "layout", while updating a slide may use either. Listing both allows to check the first listed location then the other before declaring it cannot find it.
type	The type of placeholder. Options are "body", "title", "ftr", "subTitle", "tbl", "chart", "img". <code>ref_placeholder()</code> allows for "any" in this position to allow for referencing any type of placeholder, or any combination of to be types to be passed. <code>new_placeholder()</code> allows only one.
tie_breaker	Which pane to select when multiple are returned from label matching ("largest", "left", "right", "top", "bottom"). Can pass multiple to clarify if there are ties remaining.
replace	Identify whether to replace the existing placeholder or not if it exists on the slide. defaults to TRUE
error_call	The execution environment of a currently running function, e.g. <code>caller_env()</code> . The function will be mentioned in error messages as the source of the error. See the <code>call</code> argument of abort() for more information.
x_offset	x offset in centimeters (cm), inches (in), or percent(in) of slide width
y_offset	y offset in centimeters, inches, or percent of slide height
width	Width in centimeters, inches, or percent of slide width
height	Height in centimeters, inches, or percent of slide height

Details

`ref_placeholder()` defines what logic to apply when figuring out which a placeholder in a slide or layout to use to insert content.

`new_placeholder()` defines what logic to use when creating a new placeholder in a slide.

`empty_placeholder()` indicates that the content should not be added to the slide, and does not expect any content.

Value

A placeholder object

Examples

```
# reference placeholder, find the top-most placeholder in the slide or layout
# with the word "title" in the placeholder label where type is "title" and
# replace the contents when new values are inserted
ref_placeholder(
  label = "[Tt]title",
  type = "title",
  tie_breaker = "top",
  label_match = "match",
  label_from = c("slide", "layout"),
  replace = TRUE
)

# reference placeholder, find the the exact placeholder with the label "Content Placeholder 5"
# based on the template layout
ref_placeholder(
  label = "Content Placeholder 5",
  label_match = "exact",
  label_from = "layout"
)

# Create a new placeholder 20% down from the top of the slide, 10% off from the left side, and
# make it 10cm tall and 15cm wide
new_placeholder(
  x_offset = "10%",
  y_offset = "20%",
  height = "10cm",
  width = "15cm"
)
```

remove_slide_ph	<i>Remove placeholder from a slide</i>
-----------------	--

Description

Remove placeholder from a slide

Usage

```
remove_slide_ph(
  pptx,
  ph_id,
  index,
  error_call = current_env(),
  verbose = getOption("powerup.verbose", default = FALSE)
)
```

Arguments

pptx	A PowerPoint wrapped in a <pptx_container> object. see load_pptx()
ph_id	placeholder id
index	index of slide
error_call	The execution environment of a currently running function, e.g. <code>caller_env()</code> . The function will be mentioned in error messages as the source of the error. See the call argument of abort() for more information.
verbose	inform about the removed placeholders

Value

Returns the modified pptx object (of class pptx_container) with the placeholder removed from the slide.

Examples

```
pptx <- load_pptx() |>
  add_slide(layout = "Title and Content", index = 1, content("hello", ph = ph_title()))

## remove the placeholder from the slide
pptx <- remove_slide_ph(pptx,
  index = 1,
  ph_id = read_slide_placeholders(pptx, index = 1)$slide_ph_id[1]
)
```

 shape

Define a shape to add

Description

Programmatically define a shape by its type, fill, effect. Will fill the ph it is dropped into.

Usage

```
shape(x, fill = "default", outline = "default", ...)
```

Arguments

x	type of preset shape. See details for list of optional shapes
fill, outline	hex code defining shape fill and outline colors. To use the default colors, put "default". To make the fill or outline see through, use NULL.
...	unused, for future expansion of options.

Details

List of available shapes:

accentBorderCallout1, accentBorderCallout2, accentBorderCallout3, accentCallout1, accentCallout2, accentCallout3, actionButtonBackPrevious, actionButtonBeginning, actionButtonBlank, actionButtonDocument, actionButtonEnd, actionButtonForwardNext, actionButtonHelp, actionButtonHome, actionButtonInformation, actionButtonMovie, actionButtonReturn, actionButtonSound, arc, bentArrow, bentConnector2, bentConnector3, bentConnector4, bentConnector5, bentUpArrow, bevel, blockArc, borderCallout1, borderCallout2, borderCallout3, bracePair, bracketPair, callout1, callout2, callout3, can, chartPlus, chartStar, chartX, chevron, chord, circularArrow, cloud, cloudCallout, corner, cornerTabs, cube, curvedConnector2, curvedConnector3, curvedConnector4, curvedConnector5, curvedDownArrow, curvedLeftArrow, curvedRightArrow, curvedUpArrow, decagon, diagStripe, diamond, dodecagon, donut, doubleWave, downArrow, downArrowCallout, ellipse, ellipseRibbon, ellipseRibbon2, flowChartAlternateProcess, flowChartCollate, flowChartConnector, flowChartDecision, flowChartDelay, flowChartDisplay, flowChartDocument, flowChartExtract, flowChartInputOutput, flowChartInternalStorage, flowChartMagneticDisk, flowChartMagneticDrum, flowChartMagneticTape, flowChartManualInput, flowChartManualOperation, flowChartMerge, flowChartMultidocument, flowChartOfflineStorage, flowChartOffpageConnector, flowChartOnlineStorage, flowChartOr, flowChartPredefinedProcess, flowChartPreparation, flowChartProcess, flowChartPunchedCard, flowChartPunchedTape, flowChartSort, flowChartSummingJunction, flowChartTerminator, folderCorner, frame, funnel, gear6, gear9, halfFrame, heart, heptagon, hexagon, homePlate, horizontalScroll, irregularSeal1, irregularSeal2, leftArrow, leftArrowCallout, leftBrace, leftBracket, leftCircularArrow, leftRightArrow, leftRightArrowCallout, leftRightCircularArrow, leftRightRibbon, irregularSeal1, leftRightUpArrow, leftUpArrow, lightningBolt, line, lineInv, mathDivide, mathEqual, mathMinus, mathMultiply, mathNotEqual, mathPlus, moon, nonIsoscelesTrapezoid, noSmoking, notchedRightArrow, octagon, parallelogram, pentagon, pie, pieWedge, plaque, plaqueTabs, plus, quadArrow, quadArrowCallout, rect, ribbon, ribbon2, rightArrow, rightArrowCallout, rightBrace, rightBracket, round1Rect, round2DiagRect, round2SameRect, roundRect, rtTriangle, smileyFace, snip1Rect, snip2DiagRect, snip2SameRect, snipRoundRect, squareTabs, star10, star12, star16, star24, star32, star4, star5, star6, star7, star8, straightConnector1, stripedRightArrow, sun, swooshArrow, teardrop, trapezoid, triangle, upArrow, upArrowCallout, upDownArrow, upDownArrowCallout, uturnArrow, verticalScroll, wave, wedgeEllipseCallout, wedgeRectCallout, wedgeRoundRectCallout

Value

a preset_shape object that can be added to a slide via `content()`

Examples

```
shape("rightArrow", fill = "#000000", outline = "#ffffff")
shape("heart", fill = "orange", outline = "grey")
```

slide_transition_generic

Defined Slide Transitions

Description

Slide transitions define the transition to show when moving to the slide. [slide_transition_generic\(\)](#) allows the user to create and pass new types of transitions. Otherwise, most standard transitions are already defined as `slide_transition_*`() to allow the user to easily define a transition and any other assets the transition may need.

Usage

```
slide_transition_generic(
  type,
  transition_type_xml,
  speed = c("med", "fast", "slow")
)

slide_transition_blinds(orientation = c("horz", "vert"), speed = "med")

slide_transition_checker(orientation = c("horz", "vert"), speed = "med")

slide_transition_circle(orientation = c("horz", "vert"), speed = "med")

slide_transition_comb(orientation = c("horz", "vert"), speed = "med")

slide_transition_cover(
  direction = c("d", "l", "r", "u", "ld", "lu", "rd", "ru"),
  speed = "med"
)

slide_transition_cut(black_screen = FALSE, speed = "med")

slide_transition_diamond(speed = "med")

slide_transition_dissolve(speed = "med")

slide_transition_fade(black_screen = FALSE, speed = "med")

slide_transition_newsflash(speed = "med")

slide_transition_plus(speed = "med")

slide_transition_pull(direction = c("ld", "lu", "rd", "ru"), speed = "med")

slide_transition_push(direction = c("d", "l", "r", "u"), speed = "med")

slide_transition_random(speed = "med")

slide_transition_randomBar(orientation = c("horz", "vert"), speed = "med")

slide_transition_split(
```

```

    split = c("in", "out"),
    orientation = c("horz", "vert"),
    speed = "med"
)

slide_transition_pull(direction = c("ld", "lu", "rd", "ru"), speed = "med")

slide_transition_wedge(speed = "med")

slide_transition_wheel(spokes = 4L, speed = "med")

slide_transition_wipe(direction = c("d", "l", "r", "u"), speed = "med")

slide_transition_zoom(zoom = c("in", "out"), speed = "med")

slide_transition_null()

```

Arguments

type	string defining the slide transition type
transition_type_xml	string defining the 'OOXML' of the transition type
speed	speed of the slide transition - med, fast, or slow
orientation	specify "horz" or "vert", defining the orientation of a transition
direction	specify the direction of transition, with possible values of d (down), l (left), r (right), u (up), ld (left down), lu (left up), rd (right down), ru (right up). Not every transition allows every direction. Check the available default values to see what values can be used for every transition
black_screen	boolean identifying if the transition starts from a black screen and then transitions to new slide over black
spokes	specify the number of spokes in the wheel; values are integers.
zoom, split	specify the direction of zoom, "in" or "out"

Value

a `slide_transition` object for the defined transition, or a `slide_transition_null` object for no transition or removing a transition. The `slide_transition` object can be added to a slide via [add_slide\(\)](#) or [update_slide\(\)](#).

Examples

```

pptx <- example_pptx()

checker_transition <- slide_transition_checker()
dissolve_transition <- slide_transition_dissolve()

## add a transition to a new slide
pptx <- pptx |>

```

```
add_slide(  
  layout = "Title and Content",  
  transition = checker_transition  
)  
  
## Update/add transition to n existing slide  
pptx <- pptx |>  
  update_slide(  
    index = 1,  
    transition = dissolve_transition  
  )
```

templated_placeholder *Placeholder Templates*

Description

Included standard template locations to put standard contents when constructing a slide.

These are all "templated_placeholder" objects, which allows the user to specify two potential placeholders, allowing passing a existing_placeholder object(ref_placeholder()), which tries to use an existing placeholder either in the slide or defined in the layout, and the fallback must be a new_placeholder object (new_placeholder()), which defines a placeholder into the slide without needing there to be a pre-defined placeholder in the slide layout.

Usage

```
templated_placeholder(preferred, fallback, error_call = current_env())  
  
ph_title(replace = TRUE)  
  
ph_subtitle(replace = TRUE)  
  
ph_body(replace = TRUE)  
  
ph_body_left(replace = TRUE)  
  
ph_body_right(replace = TRUE)  
  
ph_footer(replace = TRUE)  
  
ph_footer_left(replace = TRUE)  
  
ph_footer_right(replace = TRUE)
```

Arguments

preferred	placeholder object of class existing_placeholder
fallback	placeholder object of class new_placeholder
error_call	The execution environment of a currently running function, e.g. caller_env(). The function will be mentioned in error messages as the source of the error. See the call argument of abort() for more information.
replace	Identify whether to replace the existing placeholder if it exists on the slide. Defaults to TRUE.

Value

a templated_placeholder object

Examples

```
## create a new placeholder with a label of "my_placeholder"
templated_placeholder(
  preferred = ref_placeholder(label = "title", type = "title"),
  fallback = new_placeholder(label = "my_placeholder",
                             type = "body",
                             x_offset = "5%",
                             width = "90%",
                             y_offset = "5%",
                             height = "12.5%")
)
```

tint_color	<i>Apply tint to a provided color</i>
------------	---------------------------------------

Description

Apply tint to a provided color

Usage

```
tint_color(x, tint)
```

Arguments

x	either a color name (as listed by colors()), a hexadecimal string
tint	the percentage to tint the color. Must be a value between 0 and 1

Value

A hexadecimal color string representing the tinted color.

Examples

```
tint_color("blue", tint = .5)
tint_color("#0000FF", tint = .5)
```

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