Package 'IQSlides'

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Type Package								
itle Produce Powerpoint Output from R and IQRtools Objects (Add-On for IQRtools)								
Version 0.3.6								
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Description IQSlides accompanies the efficient conduct of analyses that require reporting to Powerpoint slides.								
License MIT + file LICENSE								
Encoding UTF-8								
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R topics documented:								
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caption

Set and retrieve caption for an object

Description

Get or set a caption attribute on any object. Is used by IQRoutputPPTX to select the proper slide layout.

Usage

```
caption(x)
caption(x) <- value</pre>
```

Arguments

x any R object

value character, the caption.

Value

The object x with caption attribute

Author(s)

Daniel Kaschek, IntiQuan

```
clean_IQRoutputSection
```

Clean the Slide Output Folder

Description

Select a single section to be cleaned or clean all sections from the slide output folder.

Usage

```
clean_IQRoutputSection(section = NULL, outputFolder = NULL, verbose = FALSE)
```

Arguments

section character or NULL (default), the section to be removed. All sections if NULL.

See also section argument of IQRoutputPPTX.

 $\hbox{outputFolder} \qquad \hbox{character or NULL (default)}. \ \ \hbox{The slide folder where the rds files are saved}. \ \ \hbox{By}$

default, slides are saved in the folder getOption("IQSlide.outputfolder").

verbose Logical (FALSE by default). Print information during cleaning if TRUE.

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Push contents into a PPTX output

Description

The function pushes a plot or table with additional information like title and section into an rds file within a slide folder. From that folder, a slide deck can be generated using the IQSlidedeck() function.

Usage

```
IQRoutputPPTX(
    ...,
    section = NULL,
    title = NULL,
    layout = NULL,
    filename = NULL,
    outputFolder = NULL,
    verbose = TRUE
)
```

Arguments

The contents to be presented on a slide. Currently supported are one or two . . . objects of type plot or table. character, optional section name. Different section names will generate different section subfolders of the slide output folder. title character, optional slide title. layout character or NULL (default). If NULL, the layout is chosen automatically according to the number of arguments passed via List of possible layouts • "Title and Content" (one object) • "Two Content" (two objects) • "Two Content Right Bigger" (two objects, left column smaller than right one) • "Title and Content Wide" filename character, filename of the rds file. character or NULL (default). The slide folder where the rds files are saved. By outputFolder default, slides are saved in the folder getOption("IQSlide.outputfolder"). logical, if TRUE (default) show verbose information. verbose

Author(s)

Daniel Kaschek, IntiQuan

See Also

Other Slidedeck functions: IQSlidedeck()

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Examples

```
## Not run:
library(IQRtools)
library(ggplot2)
library(flextable)
setwd(tempdir())
# For compliance information in the footer of the slides
IQRinitCompliance("IQSlidedeck.R")
# -----
# Slide 1: Create a plot and a bullet point list
# -----
p1 <- IQRggplot(cars, aes(x = speed, y = dist)) + geom_point()</pre>
caption(p1) <- "Source: Ezekiel, M. (1930) Methods of Correlation Analysis. Wiley."
IQRoutputPPTX(
 c("Cars data set from R datasets",
    "The data vie the speed of cars and distances taken to stop shown as plot"),
 p1,
 section = "Slides with plots",
 title = "Overview of cars distance vs time to stop",
 filename = "carsPlot"
)
# Slide 2: Create a table and a bullet point list
IQRoutputPPTX(
 info = c("Cars data set from R datasets",
         "The data vie the speed of cars and distances taken to stop"),
 table = IQ_table(cars[1:16,]),
 section = "Slides with tables",
 title = "Overview of cars distance vs time to stop shown as table",
 filename = "carsTable"
)
# Slide 3: Create a table and a formatted bullet point list
# -----
IQRoutputPPTX(
 IQ_bullet_list(
   "* Bullet point with **bold** and *italic*" ,
   " * Indented by two spaces",
   " * Another one",
   "* And back to ***really* outer** level",
   "* Some sort of formula E_rel_ = m/\c^2"
 ),
 IQ_table(
```

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```
cars[1:16,]
 ),
 section = "Slides with tables",
 title = "Overview of cars distance vs time to stop shown as table",
 filename = "carsTable2"
)
# ------
# Finally: Create
# -----
# Copy-paste the filename shown in R console
# to explorer to open the file
# All slides
IQSlidedeck(
 title = "My first slidedeck with IQSlides",
 subtitle = "Cars and the time they take to stop",
 affiliation = "Daniel Kaschek, IntiQuan",
 date = "2019-11-20"
# Just section slides
IQSlidedeck(section = "Slides with plots")
## End(Not run)
```

IQSlidedeck

Build a slide deck from a slide folder

Description

Reads all rds files and generates a slide deck from the input

Usage

```
IQSlidedeck(
   title = NULL,
   subtitle = NULL,
   affiliation = NULL,
   date = NULL,
   filename = "slides.pptx",
   section = NULL,
   rdspath = NULL,
   template = NULL
)
```

Arguments

title

character or NULL (default), title of the slide deck.

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subtitle character or NULL (default), subtitle of the slide deck.
affiliation character or NULL (default), author name and company.

date character or NULL (default), date.

filename character, output file name of the slide deck. If a single file name, the output is

generated in rdspath. If the filename contains path information, the file will be

generated in the exact filename location.

section character or NULL (default), allows to create slides for a specific section only.

rdspath character or NULL (default), path to the slide files. Searches for slides in getOption("IQSlide.outpu

f NULL.

template character or NULL (default), path to the template PPTX file. Uses the internal

template if NULL.

Details

If non of the title-relevant arguments are supplied, a slide deck without title page is produced.

The appearance of the slides can be changed by setting the corresponding options via The R options() interface:

- Select a template via options(IQSlide.template = "TemplateName"). Currently supported are "Default" and "IQ".
- Select the aspect ratio via options(IQSlide.ratio = "Ratio"). Currently supported are "16:9" and "4:3". To change your settings permanently, please include your preferred options in your RProfile file.

Author(s)

Daniel Kaschek, IntiQuan

See Also

Other Slidedeck functions: IQRoutputPPTX()

Examples

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```
c("Cars data set from R datasets",
   "The data vie the speed of cars and distances taken to stop shown as plot"),
 section = "Slides with plots",
 title = "Overview of cars distance vs time to stop",
 filename = "carsPlot"
# ------
# Slide 2: Create a table and a bullet point list
# -----
IQRoutputPPTX(
 info = c("Cars data set from R datasets",
         "The data vie the speed of cars and distances taken to stop"),
 table = IQ_table(cars[1:16,]),
 section = "Slides with tables",
 title = "Overview of cars distance vs time to stop shown as table",
 filename = "carsTable"
# Slide 3: Create a table and a formatted bullet point list
# ------
IQRoutputPPTX(
 IQ_bullet_list(
   "* Bullet point with **bold** and *italic*",
   "* Another bullet point",
   " * Indented by two spaces",
   " * Another one",
   "* And back to ***really* outer** level",
   "* Some sort of formula E_rel_ = m/\c^2"
 ),
 IQ_table(
  cars[1:16,]
 ),
 section = "Slides with tables",
 title = "Overview of cars distance vs time to stop shown as table",
 filename = "carsTable2"
# -----
# Finally: Create
# Copy-paste the filename shown in R console
# to explorer to open the file
# All slides
IQSlidedeck(
 title = "My first slidedeck with IQSlides",
 subtitle = "Cars and the time they take to stop",
 affiliation = "Daniel Kaschek, IntiQuan",
 date = "2019-11-20"
```

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```
# Just section slides
IQSlidedeck(section = "Slides with plots")
## End(Not run)
```

IQ_bullet_list

Create bullet point list

Description

Allows to create a formatted bullet point list using basic elements of markdown syntax.

Usage

```
IQ_bullet_list(...)
bullet_list(...)
```

Arguments

Each bullet point is entered as a string. The string should start with "*" and can be indented by multiples of two spaces to change the item level. See example.

Value

Object of type bullet_list.

Examples

```
bl <- IQ_bullet_list(
   "* Bullet point with **bold** and *italic*" ,
   "* Another bullet point",
   " * Indented by two spaces",
   " * Another one",
   "* And back to ***really* outer** level",
   "* Some sort of formula `E~rel~ = m\\*c^2^`"
)</pre>
```

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IQ_image

Image output for IQRoutputPPTX

Description

Prepares objects which can be interpreted as plots (image files, ggplot) for output via IQRoutputPPTX.

Usage

```
IQ_image(x, ...)
## S3 method for class 'character'
IQ_image(x, pages = 1, ...)
## S3 method for class 'gg'
IQ_image(x, ...)
```

Arguments

x path to image file or ggplot object
... currently not used

pages integer, the page from the pdf to be extracted

Value

ggplot object (any table will be printed as image)

IQ_table

Table output for IQRoutputPPTX

Description

Prepares objects which can be interpreted as tables (matrix, data.frame, flextable) for output via IQRoutputPPTX.

Usage

```
IQ_table(x, ...)
## S3 method for class 'IQRtable'
IQ_table(x, ...)
## S3 method for class 'matrix'
IQ_table(x, ...)
## S3 method for class 'data.frame'
IQ_table(x, ...)
## S3 method for class 'flextable'
IQ_table(x, ...)
```

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Arguments

x R object (matrix, IQRtable, data.frame, flextable)

... currently not used

Value

ggplot object (any table will be printed as image)

 $select_plot$

 $Subsetting\ IQRoutput Figures$

Description

Subsetting IQRoutputFigures

Usage

```
select_plot(figure, n)
```

Arguments

figure IQRoutputFigure

n integer or range indicating the plots to keep in the figure

Value

IQRoutputFigure object

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```