

Package ‘knitxl’

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Type Package

Title Generates a Spreadsheet Report from an 'rmarkdown' File

Version 0.1.0

Description Convert an R Markdown documents into an 'xlsx' spreadsheet reports with the knitxl() function, which works similarly to knit() from the 'knitr' package. The generated report can be opened in 'Excel' or similar software for further analysis and presentation.

License GPL (>= 3)

Encoding UTF-8

Depends knitr (>= 1.39)

Imports commonmark (>= 1.8.0), glue (>= 1.6.2), magrittr (>= 2.0.3), openxlsx (>= 4.2.5), purrr (>= 0.3.4), R6 (>= 2.5.1), readbitmap (>= 0.1.5), readr (>= 2.1.2), stringr (>= 1.4.0), xml2 (>= 1.3.3), yaml (>= 2.3.7)

Suggests testthat (>= 3.0.0), waldo (>= 0.4.0)

Config/testthat/edition 3

RoxygenNote 7.2.3

URL <https://github.com/dreanod/knitxl>

BugReports <https://github.com/dreanod/knitxl/issues>

NeedsCompilation no

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knitxl

Knit a Document to an XLSX file

Description

This function takes an input file, extracts the R code in it according to a list of patterns, evaluates the code and writes the output in an XLSX spreadsheet file.

Usage

```
knitxl(  
  input,  
  output = NULL,  
  text = NULL,  
  quiet = FALSE,  
  envir = parent.frame(),  
  encoding = "UTF-8"  
)
```

Arguments

input	Path to the input file.
output	Path to the output file for knitxl(). If NULL, this function will try to guess a default, which will be under the current working directory.
text	A character vector. This is an alternative way to provide the input file.
quiet	Boolean; suppress the progress bar and messages?
envir	Environment in which code chunks are to be evaluated, for example, <code>parent.frame()</code> , <code>new.env()</code> , or <code>globalenv()</code> .
encoding	Encoding of the input file; always assumed to be UTF-8 (i.e., this argument is effectively ignored).

Value

The compiled document is written into the output file, and the path of the output file is returned invisibly.

Examples

```
library(knitxl)  
path_to_input <- system.file("examples", "knitxl-minimal.Rmd", package = "knitxl")  
path_to_output <- "knitxl-minimal.xlsx"  
knitxl(path_to_input, output = path_to_output) # will generate knitxl-minimal.xlsx  
unlink(path_to_output)
```

xl_renderer	<i>Represents an R object into a format that can be printed into an XLSX file</i>
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Description

This is a generic function that is intended for developers who want to extend knitr to print new classes R objects. It transforms an object into a knitr_output_* class (either text, vector or data_frame) that can be printed in an XLSX file.

Usage

```
xl_renderer(x, options)

## Default S3 method:
xl_renderer(x, options)

## S3 method for class 'data.frame'
xl_renderer(x, options)

## S3 method for class 'numeric'
xl_renderer(x, options)

## S3 method for class 'logical'
xl_renderer(x, options)

## S3 method for class 'list'
xl_renderer(x, options)

## S3 method for class 'character'
xl_renderer(x, options)
```

Arguments

x	the object to be rendered in the XLSX file.
options	the knitr and knitr options used to customize the rendering of x

Value

A character singleton, a data vector, or a data frame with class knitr_output_* (either text, vector or data_frame, respectively).

Examples

```
# Writes the summary of linear model fits a print output:
xl_renderer.lm <- function(x, options) {
  res <- capture.output(summary(x))
```

```
res <- paste0(res, collapse = "\n")
class(res) <- "knit_xl_output_vector"
res
}
registerS3method("xl_renderer", "lm", xl_renderer.lm)
# knitr will now print the summary of `lm` object in the generated
# .xlsx file.

# This will instead write the summary information about the coefficients
# in a table:
xl_renderer.lm <- function(x, options) {
  summary(x)$coefficients %>%
  as.data.frame() %>%
  new_knitr_xl_output_data_frame()
}
registerS3method("xl_renderer", "lm", xl_renderer.lm)
```

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