Package: TBox (via r-universe)

August 26, 2024

Title Useful Functions for Programming and Generating Documents

Version 0.1.3.9000

Description Tools to help developers and producers manipulate R
objects and outputs. It includes tools for displaying results
and objects, and for formatting them in the correct format.

License MIT + file LICENSE

Encoding UTF-8

Roxygen list(markdown = TRUE)

RoxygenNote 7.3.2

Depends R (>= 4.0.0)

Imports checkmate, clipr, knitr, rmarkdown, utils

URL https://github.com/TanguyBarthelemy/TBox,
https://tanguybarthelemy.github.io/TBox/

BugReports https://github.com/TanguyBarthelemy/TBox/issues

Suggests testthat (>= 3.0.0), withr, htm2txt, pdftools

Config/testthat/edition 3

Repository https://tanguybarthelemy.r-universe.dev

RemoteUrl https://github.com/TanguyBarthelemy/TBox

RemoteRef HEAD

RemoteSha afc5b4bbb2df2587cae046a6c658b5146f390c70

Contents

---

generate_chunk_header   *Generate R chunk header*

Description

Function to generate R chunk header for rmarkdown rendering in different output

Usage

```
generate_chunk_header(...)
```

Arguments

```
...                      The different options for R code chunks.
```

Details

To get the list of all accepted options, you can call `names(knitr::opts_chunk$get())` and to get the default values you can call `knitr::opts_chunk$get()`.

More information in the function #' `opts_chunk` or directly `https://yihui.org/knitr/options/#chunk-options` to see all available options and their descriptions.

Value

a string of length 1

Examples

```
generate_chunk_header()
generate_chunk_header(eval = TRUE, echo = TRUE)
generate_chunk_header(results = "asis")
generate_chunk_header(fig.width = "4px", fig.height = "3px")
```

---

generate_rmd_file   *Generate Rmd file*

Description

This function creates the Rmd file which will be rendered in a specific format.

Usage

```
generate_rmd_file(
  content,
  output_format = c("word", "pdf", "html", "word_document", "pdf_document",
    "html_document"),
  font_size = 12,
  code = TRUE,
  font_path = get_fira_path(),
  word_template_path = get_word_template_path(),
  ...
)
```

Arguments

content	a string. The body of the Rmd file (for example code or text)
output_format	a string representing the output format. The values "pdf", "html" or "word" and their knitr equivalent "pdf_document", "html_document" or "word_document" are accepted.
font_size	a numeric. The font size, only available in pdf format.
code	a boolean. Should the content string have to be inserted in R chunk or is it just text? Default is TRUE (so the content will be inserted in R chunk).
font_path	a string. The path to the font used to render code chunks. It should link to a .ttf file. Only available in pdf format.
word_template_path	
	a string. The path to the word template file used when rendering with word. By default, the template used is the one included in the package. Only used with word output.
...	other arguments passed to R chunk (for example eval = TRUE, echo = FALSE...)

Details

More information about the argument . . . in the documentation of the function [render_code](#).

Value

a string of length 1.

Examples

```
generate_rmd_file(content = "Bonjour tout le monde",
                  code = FALSE,
                  output_format = "word")
generate_rmd_file(content = "print(AirPassengers)",
                  code = TRUE,
                  output_format = "pdf",
                  eval = TRUE,
                  echo = FALSE)
generate_rmd_file(content = "plot(AirPassengers)",
```

```
                        code = TRUE,
                        output_format = "html_document",
                        eval = FALSE,
                        echo = TRUE)
```

---

get_fira_path   *The path to the font Fira Code*

Description

This function returns the path to the font Fira Code installed with the package TBox.

Usage

```
get_fira_path()
```

Details

This function helps the other functions to find the path to the font Fira Code to render documents and use this font by default for code chunks.

Value

a character vector of length 1 representing the path

Examples

```
get_fira_path()
```

---

get_word_template_path

                          The path to the word template

Description

This function returns the path to the word template installed with the package TBox.

Usage

```
get_word_template_path()
```

Details

This function helps the other functions to find the template of the word document used to render in
`.docx` output.

Value

a character vector of length 1 representing the path

Examples

```
get_word_template_path()
```

---

render_code   *Generate a file with formatted code*

Description

Format a piece of code to copy it into an email, a pdf, a document, etc.

Usage

```
render_code(
  output_format = c("word", "pdf", "html", "word_document", "pdf_document",
    "html_document"),
  browser = getOption("browser"),
  font_size = 12,
  code = TRUE,
  open = TRUE,
  font_path = get_fira_path(),
  word_template_path = get_word_template_path(),
  ...
)
```

Arguments

output_format	a string representing the output format. The values "pdf", "html" or "word" and their knitr equivalent "pdf_document", "html_document" or "word_document" are accepted.
browser	a string. The path to the browser which will open the generated file format
font_size	a numeric. The font size in pdf format.
code	a boolean. Should the copied content have to be inserted in R chunk or is it just text? Default is TRUE (so the copied content will be inserted in R chunk).
open	a boolean. Default is TRUE meaning that the document will open automatically after being generated.
font_path	a string. The path to the font used to render code chunks. It should link to a .ttf file. Only available in pdf format.
word_template_path	
	a string. The path to the word template file used when rendering with word. By default, the template used is the one included in the package. Only used with word output.
...	other arguments passed to R chunk (for example eval = TRUE, echo = FALSE...)

Details

This function allows the user to generate formatted code (for email, document, copy, message, etc.) on the fly.

It accepts mainly word, pdf and html formats, but any format accepted by rmarkdown on the computer.

To use this function, simply copy a piece of code and run render_code() with the arguments that interest us. If you want content that is not R code, use the code argument to FALSE. In pdf format, you can change the font size using the font_size argument. Also, you can change the browser that opens the file by default with the browser argument.

With the argument ..., you can specify knitr arguments to be included in the chunk. For example, you can add eval = TRUE (if you want the R code to be evaluated (and the result displayed)), echo = FALSE (if you don't want to display the code)...

More information in the function [opts_chunk](#) or directly https://yihui.org/knitr/options/#chunk-options to see all available options and their descriptions.

If the open argument is set to FALSE then the browser argument will be ignored.

Value

This function returns invisibly (with invisible()) a vector of length two with two element:

- the path of the created rmarkdown (template) document (.Rmd)
- the path of the created output (in the format .pdf, .docx or .html).

Examples

```
# Copy a snippet of code
if (clipr::clipr_available()) {
    clipr::write_clip("plot(AirPassengers)", allow_non_interactive = TRUE)
}

render_code(
    output_format = "word",
    echo = TRUE
)

render_code(
    output_format = "html",
    eval = FALSE
)


render_code(
    output = "pdf",
    eval = TRUE,
    font_size = 16
)
```

Index