Package 'rosr'

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Title Create Reproducible Research Projects

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Depends R (>= 3.1.0)

Imports rmarkdown, bookdown, blogdown, tinytex, mindr, bookdownplus,
rstudioapi, htmlwidgets, shiny, devtools, clipr, knitr

Suggests

Description Creates reproducible academic projects with integrated academic elements, includ-
ing datasets, references, codes, images, manuscripts, dissertations, slides and so on. These ele-
ments are well connected so that they can be easily synchronized and updated.

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URL <https://github.com/pzhaonet/rosr>

BugReports <https://github.com/pzhaonet/rosr/issues>

SystemRequirements pandoc (>= 2.0; https://pandoc.org)

RoxygenNote 7.1.0

NeedsCompilation no

LazyData true

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Repository CRAN

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R topics documented:

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copy_rmd   *Copy the existing .Rmd file from the rosr package to the destination directory.*

Description

Copy the existing .Rmd file from the rosr package to the destination directory.

Usage

```
copy_rmd(package, template, sub_project, rmd_dir)
```

Arguments

package   Packge name of the source template.

template   Template name of the source template.

sub_project   Sub-project name

rmd_dir   Destination directory

Value

copied file and the path of the new .Rmd file

---

create_bib	*Create a demo .bib file*

Description

Create a demo .bib file

Usage

```
create_bib(to = getwd())
```

Arguments

to   the destination directory

Value

a demo .bib file

Examples

```
create_bib(tempdir())
```

---

create_book	*Create a demo bookdown project*

Description

Create a demo bookdown project

Usage

```
create_book(
  to = getwd(),
  template = "demo",
  if_render = TRUE,
  package = "bookdownplus",
  bdp_output = NULL
)
```

Arguments

`to`	the desnitation directory.
`template`	the name of the r markdown template. It is the folder name in 'package/rmarkdown/templates/'.
`if_render`	whether render it.
`package`	the package name where the template comes from.
`bdp_output`	the type of bookdownplus output. Only valid when package = 'bookdownplus'.

Value

copied file.

Examples

```
create_book(tempdir(), if_render = FALSE)
```

`create_data`	*Create a demo data file*

Description

Create a demo data file

Usage

```
create_data(to = getwd())
```

Arguments

`to`	the destination directory

Value

a demo data file

Examples

```
create_data(tempdir())
```

create_dir	*Create an empty directory*

Description

Create an empty directory

Usage

```
create_dir(to = getwd())
```

Arguments

to   the destination directory

Value

an empty directory

Examples

```
create_dir()
```

create_eq	*Create a demo equation sheet*

Description

Create a demo equation sheet

Usage

```
create_eq(to = getwd(), if_render = TRUE)
```

Arguments

to   the destination directory

if_render   Logical. Whether render the templates.

Value

a demo equation sheet

Examples

```
create_eq(tempdir())
```

---

create_mindmap   *Create a demo mind map*

Description

Create a demo mind map

Usage

```
create_mindmap(to = getwd(), if_save = FALSE)
```

Arguments

to	the destination directory
if_save	Logical. Whether save the mindmap.

Value

a demo mind map

Examples

```
# create_mindmap(tempdir())
```

---

create_r   *Create a demo .R script*

Description

Create a demo .R script

Usage

```
create_r(to = getwd())
```

Arguments

to	the destination directory

Value

a demo .R script

Examples

```
create_r(tempdir())
```

---

create_rmd *Create a demo markdown project*

Description

Create a demo markdown project

Usage

```
create_rmd(
  to = "manuscript",
  template = "copernicus_article",
  if_render = TRUE,
  package = "rticles"
)
```

Arguments

`to`	the desnitation directory
`template`	the name of the r markdown template. It is the folder name in 'package/rmarkdown/templates/'.
`if_render`	whether render it.
`package`	the package name where the template comes from.

Value

copied file.

Examples

```
create_rmd(tempdir(), if_render = FALSE)
```

---

create_rosr *Create a new project or a new sub-project*

Description

Create a new project or a new sub-project

Usage

```
create_rosr(
  project = "test",
  if_render = TRUE,
  dest_dir = NA,
  overwrite = FALSE,
  sub_project = sub_projects()
)
```

Arguments

project	Project name.
if_render	Logical. Whether render the templates.
dest_dir	Character. The destination directory of the new project.
overwrite	Logical. Whether overwrite existing files.
sub_project	Character. The type of the sub-project to create.

Value

a project folder

Examples

```
# create_rosr(dest_dir = tempdir(), sub_project = 'Rproj')
```

---

create_rpkg   *Create a demo R package*

Description

Create a demo R package

Usage

```
create_rpkg(to = getwd())
```

Arguments

to	the destination directory

Value

a demo R package

Examples

```
create_rpkg(tempdir())
```

---

create_rproj *Create a .Rproj file*

Description

Create a .Rproj file

Usage

```
create_rproj(project)
```

Arguments

project   the name of the .Rproj file

Value

a .Rproj.file

Examples

```
oldwd <- getwd()
setwd(tempdir())
create_rproj("test")
setwd(oldwd)
```

---

create_ui *A shiny app for creating a rosr project*

Description

A shiny app for creating a rosr project

Usage

```
create_ui()
```

Value

a shinyapp which can be displayed in a web browser.

Examples

```
## Not run:
create_ui()

## End(Not run)
```

`create_website`   *Create a demo blogdown website*

Description

Create a demo blogdown website

Usage

```
create_website(to = getwd(), theme = "yihui/hugo-lithium", oldwd = getwd())
```

Arguments

`to`	the desnitation directory
`theme`	the name of the r blogdown theme.
`oldwd`	set the working directory aftering rendering the book

Value

copied file.

Examples

```
# create_website(tempdir())
```

`eq`   *Insert an equation.*

Description

Insert an equation.

Usage

```
eq(
  eqs = NULL,
  label = NULL,
  number = NULL,
  style = c("numbered", "display", "inline", "none"),
  skip = 6,
  if_copy = TRUE
)
```

Arguments

`eqs`	Character. The path to the equation text file, or a data frame of the equations.
`label`	Character. The label of the equation.
`number`	integer. The number of the equation.
`style`	character. The style of the equation.
`skip`	integer. the number of lines of the data file to skip before beginning to read data.
`if_copy`	logical. Whether copy the equation into the clipboard.

Value

A string of the equation.

Examples

```
eq()
```

---

eqw	*Convert a MathML equation for Microsoft Word*

Description

Convert a MathML equation for Microsoft Word

Usage

```
eqw(connection = "clipboard")
```

Arguments

`connection`	a connection object or a character string.

Details

Copy the MathML codes of an equation into your clipboard, and run eq_word(), then paste from your clipboard to MS Word.

Value

a Word equation

Examples

```
# Copy the MathML codes of an equation into your clipboard.
eqw("test")
# Now paste to MS Word.
```

---

fig   *Insert an image in the 'image/' directory.*

Description

Insert an image in the 'image/' directory.

Usage

```
fig(filename)
```

Arguments

filename   The file name of the image.

Value

Insert an image.

---

get_yaml   *Get the yaml header of a string vecter from a markdown file*

Description

Get the yaml header of a string vecter from a markdown file

Usage

```
get_yaml(txt)
```

Arguments

txt   a string vector vecter from a markdown file

Value

a string vector of the yaml header

---

install_packages *Install dependencies*

Description

Install dependencies

Usage

```
install_packages(server = c("cran", "github"))
```

Arguments

server   character. The server from where to install the dependencies.

Value

install packages

Examples

```
install_packages()
```

---

read_eq *Read equations from a file*

Description

Read equations from a file

Usage

```
read_eq(eqs, skip = 6)
```

Arguments

eqs   character. The path of the equation file.
skip   integer. the number of lines of the data file to skip before beginning to read data.

Value

a data frame with equations

Examples

```
eq_file <- file.path(system.file(package = "rosr"), "skeleton/equation/rosr-eq.Rmd")
eqs <- read_eq(eq_file)
```

---

render_revised   *Render a revised .rmd into pdf*

Description

Render a revised .rmd into pdf

Usage

```
render_revised(file, clear = TRUE)
```

Arguments

file	the path of the .rmd file
clear	logical. clear the intermediate files

Value

a pdf file in revison mode.

Examples

```
# rosr::create_rmd(template = 'statement_svm', package = 'rosr')
# rosr::render_revised('manuscript/statement_svm/statement_svm.Rmd')
```

---

rmd_template   *rosr Rmd template*

Description

rosr Rmd template

Usage

```
rmd_template(
  ...,
  template_name,
  keep_tex = TRUE,
  citation_package = "natbib",
  md_extensions = c("-autolink_bare_uris", "-auto_identifiers")
)

statement_svm(...)

article_svm(...)
```

```
cv_svm(...)

syllabus_svm(...)

manuscript_svm(...)

letter_moderncv(...)

beamer(...)
```

Arguments

`...,`	keep_tex, citation_package, md_extensions Arguments passed to `rmarkdown::pdf_document()`.
`template_name`	the template name.
`keep_tex`	Keep the intermediate tex file used in the conversion to PDF
`citation_package`	
	The LaTeX package to process citations, `natbib` or `biblatex`. Use none if neither package is to be used.
`md_extensions`	Markdown extensions to be added or removed from the default definition or R Markdown. See the `rmarkdown_format` for additional details.

Details

statement_svm, article_svm, cv_svm, syllabus_svm, manuscript_svm are adapted from https://github.com/svmiller/svm-r-markdown-templates.

Value

An R Markdown output format.

---

rm_space	*remove the spaces before and after a string.*

Description

remove the spaces before and after a string.

Usage

```
rm_space(string)
```

Arguments

`string`	a string.

Value

a new string.

---

rosr_server   *Server for the Shiny app create_ui*

Description

Server for the Shiny app create_ui

Usage

```
rosr_server(input, output, session)
```

Arguments

input	The input of the server.
output	The output of the server.
session	The session of the server.

---

rosr_ui   *UI for the Shiny app create_ui*

Description

UI for the Shiny app create_ui

Usage

```
rosr_ui()
```

Value

A UI function

---

sub_projects   *Display available sub projects*

Description

Display available sub projects

Usage

```
sub_projects()
```

Value

character of the project names

Examples

```
sub_projects()
```

---

templates   *Display available templates in a data frame*

Description

Display available templates in a data frame

Usage

```
templates()
```

Value

a data frame of templates

Examples

```
templates()
```

---

template_ls   *Display available templates in a list*

Description

Display available templates in a list

Usage

```
template_ls()
```

Value

a list of templates

Examples

```
template_ls()
```

---

template_of_sub_project

                    Get the template name of the given sub-project name

---

Description

Get the template name of the given sub-project name

Usage

```
template_of_sub_project(sub_project)
```

Arguments

sub_project   the name of the sub-project

Value

the name of the template

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