

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, including datasets, references, codes, images, manuscripts, dissertations, slides and so on. These elements 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 (>= 2.2.3)

RoxygenNote 6.1.1

NeedsCompilation no

LazyData true

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R topics documented:

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| | |
|----------|--|
| copy_rmd | <i>Copy the existing .Rmd file from the rosr package to the destination directory.</i> |
|----------|--|

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 | Package 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 | <i>Create a demo .bib file</i> |
|------------|--------------------------------|

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 | <i>Create a demo bookdown project</i> |
|-------------|---------------------------------------|

Description

Create a demo bookdown project

Usage

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

Arguments

to the destination 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 | <i>Create a demo data file</i> |
|-------------|--------------------------------|

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 | <i>Create an empty directory</i> |
|------------|----------------------------------|

Description

Create an empty directory

Usage

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

Arguments

to the destination directory

Value

an empty directory

Examples

```
create_dir()
```

| | |
|-----------|-------------------------------------|
| create_eq | <i>Create a demo equation sheet</i> |
|-----------|-------------------------------------|

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 | <i>Create a demo mind map</i> |
|----------------|-------------------------------|

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 | <i>Create a demo .R script</i> |
|----------|--------------------------------|

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 | <i>Create a demo markdown project</i> |
|------------|---------------------------------------|

Description

Create a demo markdown project

Usage

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

Arguments

| | |
|-----------|---|
| to | the destination 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 | <i>Create a new project or a new sub-project</i> |
|-------------|--|

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 | <i>Create a demo R package</i> |
|-------------|--------------------------------|

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 | <i>Create a .Rproj file</i> |
|--------------|-----------------------------|

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 | <i>A shiny app for creating a rosr project</i> |
|-----------|--|

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 | <i>Create a demo blogdown website</i> |
|----------------|---------------------------------------|

Description

Create a demo blogdown website

Usage

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

Arguments

| | |
|-------|--|
| to | the destination directory |
| theme | the name of the r blogdown theme. |
| oldwd | set the working directory after 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 | <i>Insert an image in the 'image/' directory.</i> |
|-----|---|

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 | <i>Get the yaml header of a string vector from a markdown file</i> |
|----------|--|

Description

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

Usage

```
get_yaml(txt)
```

Arguments

txt a string vector vector from a markdown file

Value

a string vector of the yaml header

| | |
|------------------|-----------------------------|
| install_packages | <i>Install dependencies</i> |
|------------------|-----------------------------|

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 | <i>Read equations from a file</i> |
|---------|-----------------------------------|

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)
```

| | |
|--------------|--------------------------|
| rmd_template | <i>rosr Rmd template</i> |
|--------------|--------------------------|

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_zh(...)
```

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 | <i>remove the spaces before and after a string.</i> |
|----------|---|

Description

remove the spaces before and after a string.

Usage

```
rm_space(string)
```

Arguments

string a string.

Value

a new string.

| | |
|--------------|---|
| rosr-imports | <i>Objects imported from other packages</i> |
|--------------|---|

Description

These objects are imported from other packages. Follow the links to their documentation.

clipr [clipr_available](#), [write_clip](#)

htmltools [a](#), [br](#), [code](#), [div](#), [em](#), [h1](#), [h2](#), [h3](#), [h4](#), [h5](#), [h6](#), [hr](#), [HTML](#), [htmlTemplate](#), [img](#), [includeCSS](#), [includeHTML](#), [includeMarkdown](#), [includeScript](#), [includeText](#), [is.singleton](#), [knit_print.html](#), [knit_print.shiny.tag](#), [knit_print.shiny.tag.list](#), [p](#), [pre](#), [singleton](#), [span](#), [strong](#), [suppressDependencies](#), [tag](#), [tagAppendAttributes](#), [tagAppendChild](#), [tagAppendChildren](#), [tagList](#), [tagSetChildren](#), [validateCssUnit](#), [withTags](#)

shiny `..stacktraceoff..`, `..stacktraceon..`, `absolutePanel`, `actionButton`, `actionLink`, `addResourcePath`, `animationOptions`, `appendTab`, `as.shiny.appobj`, `basicPage`, `bookmarkButton`, `bootstrapLib`, `bootstrapPage`, `browserViewer`, `brushedPoints`, `brushOpts`, `callModule`, `captureStackTraces`, `checkboxGroupInput`, `checkboxInput`, `clickOpts`, `column`, `conditionalPanel`, `conditionStackTrace`, `conditionStackTrace<-`, `createRenderFunction`, `createWebDependency`, `dataTableOutput`, `dateInput`, `dateRangeInput`, `dblclickOpts`, `debounce`, `dialogViewer`, `diskCache`, `downloadButton`, `downloadHandler`, `downloadLink`, `enableBookmarking`, `eventReactive`, `exportTestValues`, `exprToFunction`, `extractStackTrace`, `fileInput`, `fillCol`, `fillPage`, `fillRow`, `fixedPage`, `fixedPanel`, `fixedRow`, `flowLayout`, `fluidPage`, `fluidRow`, `formatStackTrace`, `freezeReactiveVal`, `freezeReactiveValue`, `getCurrentOutputInfo`, `getDefaultReactiveDomain`, `getQueryString`, `getShinyOption`, `getUrlHash`, `headerPanel`, `helpText`, `hideTab`, `hoverOpts`, `htmlOutput`, `icon`, `imageOutput`, `incProgress`, `inputPanel`, `insertTab`, `insertUI`, `installExprFunction`, `invalidateLater`, `is.key_missing`, `is.reactive`, `is.reactivevalues`, `is.shiny.appobj`, `isolate`, `isRunning`, `isTruthy`, `key_missing`, `knit_print.reactive`, `knit_print.shiny.appobj`, `knit_print.shiny.render.function`, `mainPanel`, `makeReactiveBinding`, `markRenderFunction`, `maskReactiveContext`, `memoryCache`, `modalButton`, `modalDialog`, `navbarMenu`, `navbarPage`, `navlistPanel`, `nearPoints`, `need`, `NS`, `ns.sep`, `numericInput`, `observe`, `observeEvent`, `onBookmark`, `onBookmarked`, `onFlush`, `onFlushed`, `onReactiveDomainEnded`, `onRestore`, `onRestored`, `onSessionEnded`, `onStop`, `outputOptions`, `pageWithSidebar`, `paneViewer`, `parseQueryString`, `passwordInput`, `plotOutput`, `plotPNG`, `prependTab`, `printError`, `printStackTrace`, `Progress`, `radioButtons`, `reactive`, `reactiveFileReader`, `reactivePlot`, `reactivePoll`, `reactivePrint`, `reactiveTable`, `reactiveText`, `reactiveTimer`, `reactiveUI`, `reactiveVal`, `reactiveValues`, `reactiveValuesToList`, `registerInputHandler`, `removeInputHandler`, `removeModal`, `removeNotification`, `removeTab`, `removeUI`, `renderCachedPlot`, `renderDataTable`, `renderImage`, `renderPlot`, `renderPrint`, `renderTable`, `renderText`, `renderUI`, `repeatable`, `req`, `restoreInput`, `runApp`, `runExample`, `runGadget`, `runGist`, `runGitHub`, `runUrl`, `safeError`, `selectInput`, `selectizeInput`, `serverInfo`, `setBookmarkExclude`, `setProgress`, `setSerializer`, `shinyApp`, `shinyAppDir`, `shinyAppFile`, `shinyOptions`, `shinyServer`, `shinyUI`, `showBookmarkUrlModal`, `showModal`, `showNotification`, `showReactLog`, `showTab`, `sidebarLayout`, `sidebarPanel`, `sizeGrowthRatio`, `sliderInput`, `snapshotExclude`, `snapshotPreprocessInput`, `snapshotPreprocessOutput`, `splitLayout`, `stopApp`, `submitButton`, `tableOutput`, `tabPanel`, `tabsetPanel`, `tags`, `textAreaInput`, `textInput`, `textOutput`, `throttle`, `titlePanel`, `uiOutput`, `updateActionButton`, `updateCheckboxGroupInput`, `updateCheckboxInput`, `updateDateInput`, `updateDateRangeInput`, `updateNavbarPage`, `updateNavlistPanel`, `updateNumericInput`, `updateQueryString`, `updateRadioButtons`, `updateSelectInput`, `updateSelectizeInput`, `updateSliderInput`, `updateTabsetPanel`, `updateTextAreaInput`, `updateTextInput`, `updateVarSelectInput`, `updateVarSelectizeInput`, `urlModal`, `validate`, `varSelectInput`, `varSelectizeInput`, `verbatimTextOutput`, `verticalLayout`, `wellPanel`, `withLogErrors`, `withMathJax`, `withProgress`, `withReactiveDomain`

utils `install.packages`, `read.table`, `unzip`, `write.csv`

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 | <i>UI for the Shiny app create_ui</i> |
|---------|---------------------------------------|

Description

UI for the Shiny app create_ui

Usage

```
rosr_ui()
```

Value

A UI function

| | |
|--------------|---------------------------------------|
| sub_projects | <i>Display available sub projects</i> |
|--------------|---------------------------------------|

Description

Display available sub projects

Usage

```
sub_projects()
```

Value

character of the project names

Examples

```
sub_projects()
```

| | |
|-----------|--|
| templates | <i>Display available templates in a data frame</i> |
|-----------|--|

Description

Display available templates in a data frame

Usage

```
templates()
```

Value

a data frame of templates

Examples

```
templates()
```

| | |
|-------------|--|
| template_ls | <i>Display available templates in a list</i> |
|-------------|--|

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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