Package 'rProject'

January 8, 2026

Title Setup R Project

Version 0.0.23

Description A collection of functions to setup R projects.

URL https://github.com/ijapesigan/rProject/, https://ijapesigan.github.io/rProject/

BugReports https://github.com/ijapesigan/rProject/issues

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Encoding UTF-8

LazyData true

Roxygen list(markdown = TRUE)

VignetteBuilder knitr

Depends R (>= 3.5.0)

Imports BiocManager, cffr, covr, devtools, distro, knitr, lintr, pkgdown, quarto, Rcpp, remotes, RefManageR, rmarkdown, roxygen2, rprojroot, stats, styler, tinytex, utils

Suggests testthat

RoxygenNote 7.3.3.9000

NeedsCompilation no

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Bib *Consolidate .bib files into a Single File*

Description

Consolidate .bib files into a Single File

Usage

```
Bib(path, bib_lib = FALSE)
```

Arguments

path	Character string. Project path.
bib_lib	Logical. If bib_lib = TRUE, build bib.bib from lib-* GitHub repositories.

Author(s)

Ivan Jacob Agaloos Pesigan

BibLib *Copy .bib Files from lib-* GitHUb Repositories*

Description

Copy .bib Files from lib-* GitHUb Repositories

Usage

```
BibLib(path)
```

Arguments

path	Character string. Project path.

Author(s)

Ivan Jacob Agaloos Pesigan

Binary *Setup Binaries not Included in the Package*

Description

Setup Binaries not Included in the Package

Usage

```
Binary(path)
```

Arguments

path	Character string. Project path.

Author(s)

Ivan Jacob Agaloos Pesigan

Build *Build Package*

Description

Build Package

Usage

```
Build(path, vignettes = FALSE, dependencies = FALSE)
```

Arguments

path	Character string. Project path.
vignettes	Logical. Build vignettes.
dependencies	Logical. Install package dependencies.

Author(s)

Ivan Jacob Agaloos Pesigan

BuildIgnore *Build* .Rbuildignore

Description

Build .Rbuildignore

Usage

```
BuildIgnore(path, project, add = NULL)
```

Arguments

path	Character string. Project path.
project	Character string. Project name.
add	Character vector. Items to add to .Rbuildignore.

Author(s)

Ivan Jacob Agaloos Pesigan

CFF *Build* CITATION.cff

Description

Build CITATION.cff

Usage

```
CFF(path)
```

Arguments

path	Character string. Project path.

Author(s)

Ivan Jacob Agaloos Pesigan

Clean *Clean Files Generated on Build*

Description

Delete all output files that are generated on automated build.

Usage

```
Clean(path, push = FALSE)
```

Arguments

path	Character string. Project path.
push	Logical. If push = TRUE clean in preparation for git push.

Author(s)

Ivan Jacob Agaloos Pesigan

CleanPkg *Clean R Packages*

Description

Uninstall R packages with priority = "NA".

Usage

```
CleanPkg(path)
```

Arguments

path	Character string. Project path.

Author(s)

Ivan Jacob Agaloos Pesigan

CleanProj *Clean Project*

Description

Remove all files except `project.Rproj` and, optionally, `.library`.

Usage

```
CleanProj(path, lib = FALSE, sim = FALSE, sif = FALSE)
```

Arguments

`path`	Character string. Project path.
`lib`	Logical. If `lib = TRUE`, delete `.library`. If `lib = FALSE`, `.library` is not deleted.
`sim`	Logical. If `sim = TRUE`, delete `.sim`. If `sim = FALSE`, `.sim` is not deleted.
`sif`	Logical. If `sif = TRUE`, delete `.sif`. If `sif = FALSE`, `.sif` is not deleted.

Author(s)

Ivan Jacob Agaloos Pesigan

CleanTinyTex *Clean ~/.TinyTex*

Description

Uninstall `TinyTex`.

Usage

```
CleanTinyTex(path)
```

Arguments

`path`	Character string. Project path.

Author(s)

Ivan Jacob Agaloos Pesigan

ConfigFiles *Setup Config Files*

Description

Setup Config Files

Usage

```
ConfigFiles(git_user)
```

Arguments

git_user	Character string. Git user.

Details

This function requires a `dotfiles` GitHub repository.

Author(s)

Ivan Jacob Agaloos Pesigan

Coverage *Code Coverage*

Description

Code Coverage

Usage

```
Coverage(path)
```

Arguments

path	Character string. Project path.

Author(s)

Ivan Jacob Agaloos Pesigan

DataAnalysis *Data Analysis*

Description

Execute R scripts in `data-analysis`.

Usage

```
DataAnalysis(path, clean = FALSE)
```

Arguments

`path`	Character string. Project path.
`clean`	Logical. Remove all `.Rds` files in `data-process` and `data-analysis` before running.

Author(s)

Ivan Jacob Agaloos Pesigan

DataProcess *Process Data*

Description

Execute R scripts in `data-process`.

Usage

```
DataProcess(path, clean = FALSE)
```

Arguments

`path`	Character string. Project path.
`clean`	Logical. Remove all `.Rds` files in `data-process` before running.

Author(s)

Ivan Jacob Agaloos Pesigan

Dependencies *Copy Dependencies to from* `.setup/r-dependencies` *to* `R`

Description

Copy Dependencies to from `.setup/r-dependencies` to `R`

Usage

```
Dependencies(path)
```

Arguments

`path`	Character string. Project path.

Author(s)

Ivan Jacob Agaloos Pesigan

Detritus *Create* `detritus/tex/tex-fig-*`

Description

Create `detritus/tex/tex-fig-*`

Usage

```
Detritus(path)
```

Arguments

`path`	Character string. Project path.

Author(s)

Ivan Jacob Agaloos Pesigan

Environment *Setup* .Renviron

Description

Setup .Renviron

Usage

```
Environment(path, project, tokens)
```

Arguments

path	Character string. Project path.
project	Character string. Project name.
tokens	Named vector of tokens.

Author(s)

Ivan Jacob Agaloos Pesigan

EnvironmentProject *Set* PROJECT *Environment Variable*

Description

Set PROJECT Environment Variable

Usage

```
EnvironmentProject(project)
```

Arguments

project	Character string. Project name.

Value

Returns project name.

Author(s)

Ivan Jacob Agaloos Pesigan

EnvironmentTokens *Set Tokens*

Description

Set Tokens

Usage

```
EnvironmentTokens(tokens)
```

Arguments

tokens	Named vector of tokens.

Value

Returns vector of secret tokens.

Author(s)

Ivan Jacob Agaloos Pesigan

InstallLocal *Install Applications on Local Machine*

Description

Install Applications on Local Machine

Usage

```
InstallLocal(
  what = c("tmux", "julia", "mpdemo", "lazygit", "pfetch", "quarto"),
  all = FALSE,
  force = FALSE
)
```

Arguments

what	Character string. Vector of applications to install. Valid values include "tmux", "julia", "mpdemo", "lazygit", "pfetch", and "quarto".
all	Logical. If all = TRUE, ignore what and install all valid what values.
force	Logical. If force = TRUE, install whether or not the application is available in the system.

Author(s)

Ivan Jacob Agaloos Pesigan

LatexCompile *Compile Output of* LatexKnit

Description

Compile Output of LatexKnit

Usage

```
LatexCompile(path, clean = FALSE)
```

Arguments

path	Character string. Project path.
clean	Logical. Clean latexmk output except *.pdf

Author(s)

Ivan Jacob Agaloos Pesigan

LatexKnit *Knit* .setup/latex/*.Rtex

Description

Knit .setup/latex/*.Rtex

Usage

```
LatexKnit(path)
```

Arguments

path	Character string. Project path.

Author(s)

Ivan Jacob Agaloos Pesigan

LatexMake *Compile Output of* LatexKnit

Description

Compile Output of LatexKnit

Usage

```
LatexMake(path, clean = FALSE)
```

Arguments

path	Character string. Project path.
clean	Logical. Clean latexmk output except *.pdf

Author(s)

Ivan Jacob Agaloos Pesigan

LatexTikzCompile *Compile Tikz*

Description

Compile Tikz

Usage

```
LatexTikzCompile(path, clean = FALSE)
```

Arguments

path	Character string. Project path.
clean	Logical. Clean latexmk output except *.pdf

Author(s)

Ivan Jacob Agaloos Pesigan

LibPaths *Add* .library *to Library Paths*

Description

- creates a folder .library on the project path if it does not exist
- creates a .gitignore file inside .library if it does not exist
- adds .library to .libPaths()
- sets R_LIBS_USER to .library

Usage

```
LibPaths(path)
```

Arguments

path	Character string. Project path.

Value

Returns the path of .library.

Author(s)

Ivan Jacob Agaloos Pesigan

License *Generate License File*

Description

Generate License File

Usage

```
License(path, type = "mit")
```

Arguments

path	Character string. Project path.
type	Character string. License type. Available values include "mit" and "gpl3".

Author(s)

Ivan Jacob Agaloos Pesigan

Lint *Lint Project*

Description

Lint Project

Usage

```
Lint(path)
```

Arguments

path	Character string. Project path.

Author(s)

Ivan Jacob Agaloos Pesigan

Manual *Package Manual*

Description

Package Manual

Usage

```
Manual(path, project)
```

Arguments

path	Character string. Project path.
project	Character string. Project name.

PkgDevel *Install Development Packages from CRAN*

Description

Install Development Packages from CRAN

Usage

```
PkgDevel(path)
```

Arguments

path	Character string. Project path.

Author(s)

Ivan Jacob Agaloos Pesigan

PkgDevelGitHub *Install Development Packages from GitHub*

Description

Install Development Packages from GitHub

Usage

```
PkgDevelGitHub(path)
```

Arguments

path	Character string. Project path.

Author(s)

Ivan Jacob Agaloos Pesigan

PkgProject *Install Project Packages from CRAN*

Description

Install Project Packages from CRAN

Usage

```
PkgProject(path, pkg)
```

Arguments

path	Character string. Project path.
pkg	Character vector. R packages.

Author(s)

Ivan Jacob Agaloos Pesigan

PkgProjectBioconductor *Install Project Packages from Bioconductor*

Description

Install Project Packages from Bioconductor

Usage

```
PkgProjectBioconductor(path, pkg)
```

Arguments

path	Character string. Project path.
pkg	Character vector. Bioconductor packages.

Author(s)

Ivan Jacob Agaloos Pesigan

PkgProjectGitHub *Install Project Packages from GitHub*

Description

Install Project Packages from GitHub

Usage

```
PkgProjectGitHub(path, pkg, ref = "HEAD")
```

Arguments

path	Character string. Project path.
pkg	Character vector. GitHub packages.
ref	Character vector. Git branch.

Author(s)

Ivan Jacob Agaloos Pesigan

PkgProjectVersion *Install Project Packages with Specific Version*

Description

Install Project Packages with Specific Version

Usage

```
PkgProjectVersion(path, pkg, ver)
```

Arguments

path	Character string. Project path.
pkg	Character vector. R packages.
ver	Character vector. Version.

Author(s)

Ivan Jacob Agaloos Pesigan

PkgRepo *Setup RStudio Package Manager Repository Based on the Current Operating System*

Description

Setup RStudio Package Manager Repository Based on the Current Operating System

Usage

```
PkgRepo(path)
```

Arguments

path	Character string. Project path.

Value

Returns the repository url.

Author(s)

Ivan Jacob Agaloos Pesigan

Profile *Setup* .Rprofile

Description

Setup .Rprofile

Usage

```
Profile(path, project)
```

Arguments

path	Character string. Project path.
project	Character string. Project name.

Author(s)

Ivan Jacob Agaloos Pesigan

Project *Setup the project.Rproj file*

Description

Setup the project.Rproj file

Usage

```
Project(path)
```

Arguments

path	Character string. Project path.

Author(s)

Ivan Jacob Agaloos Pesigan

Quarto *Render Quarto Project*

Description

Render Quarto Project

Usage

```
Quarto(path)
```

Arguments

path	Character string. Project path.

Author(s)

Ivan Jacob Agaloos Pesigan

ReadMe *Build README.md*

Description

Build README.md

Usage

```
ReadMe(path)
```

Arguments

path	Character string. Project path.

Author(s)

Ivan Jacob Agaloos Pesigan

Site *Build Website*

Description

Build Website

Usage

```
Site(path)
```

Arguments

path	Character string. Project path.

Author(s)

Ivan Jacob Agaloos Pesigan

`Style` *Style Project*

Description

Style Project

Usage

```
Style(path)
```

Arguments

`path`	Character string. Project path.

Author(s)

Ivan Jacob Agaloos Pesigan

`TinyTex` *Install* `~/.TinyTex`

Description

Install `~/.TinyTex`

Usage

```
TinyTex(path, bundle = "TinyTeX-2", force = FALSE)
```

Arguments

`path`	Character string. Project path.
`bundle`	The bundle name of TinyTeX (which determines the collection of LaTeX packages to install). See https://github.com/rstudio/tinytex-releases#releases for all possible bundles and their meanings.
`force`	Logical. Force install.

Author(s)

Ivan Jacob Agaloos Pesigan

VignettesPrecompile *Precompile Vignettes*

Description

Precompile Vignettes

Usage

```
VignettesPrecompile(path)
```

Arguments

path	Character string. Project path.

Author(s)

Ivan Jacob Agaloos Pesigan

z *Data from the Standard Normal Distribution*

Description

Data from the Standard Normal Distribution

Usage

```
z
```

Format

A vector of length 100.

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