

Package ‘rProject’

October 13, 2023

Title Setup R Project

Version 0.0.5

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>

License MIT + file LICENSE

Encoding UTF-8

LazyData true

Roxygen list(markdown = TRUE)

VignetteBuilder knitr

Depends R (>= 3.5.0)

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

Suggests testthat

RoxygenNote 7.2.3

NeedsCompilation no

Author Ivan Jacob Agaloos Pesigan [aut, cre, cph]
(<https://orcid.org/0000-0003-4818-8420>)

Maintainer Ivan Jacob Agaloos Pesigan <ijapesigan@gmail.com>

R topics documented:

Bib	2
BibLib	3
Binary	3
Build	4
BuildIgnore	4

CFF	5
Clean	5
CleanPkg	6
CleanProj	6
CleanTinyTex	7
ConfigFiles	7
Coverage	8
DataAnalysis	8
DataProcess	9
Dependencies	9
Detritus	10
Environment	10
EnvironmentProject	11
EnvironmentTokens	11
InstallLocal	12
LatexCompile	12
LatexKnit	13
LatexMake	13
LibPaths	14
License	14
Lint	15
Manual	15
PkgDevel	16
PkgDevelGitHub	16
PkgProject	17
PkgProjectGitHub	17
PkgProjectVersion	18
PkgRepo	18
Profile	19
Project	19
Quarto	20
ReadMe	20
Site	21
Style	21
TinyTex	22
VignettesPrecompile	22
Z	23

Index	24
--------------	-----------

Bib	<i>Consolidate .bib files into a Single File</i>
-----	--

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	<i>Copy .bib Files from lib-* GitHub Repositories</i>
--------	---

Description

Copy .bib Files from lib-* GitHub Repositories

Usage

```
BibLib(path)
```

Arguments

path	Character string. Project path.
------	---------------------------------

Author(s)

Ivan Jacob Agaloos Pesigan

Binary	<i>Setup Binaries not Included in the Package</i>
--------	---

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	<i>Build CITATION.cff</i>
-----	---------------------------

Description

Build CITATION.cff

Usage

CFF(path)

Arguments

path	Character string. Project path.
------	---------------------------------

Author(s)

Ivan Jacob Agaloos Pesigan

Clean	<i>Clean Files Generated on Build</i>
-------	---------------------------------------

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)
```

Arguments

path Character string. Project path.

lib Logical. If lib = TRUE, delete .library. If lib = FALSE, .library is not deleted.

Author(s)

Ivan Jacob Agaloos Pesigan

CleanTinyTex	<i>Clean ~/.TinyTex</i>
--------------	-------------------------

Description

Uninstall TinyTex.

Usage

CleanTinyTex(path)

Arguments

path Character string. Project path.

Author(s)

Ivan Jacob Agaloos Pesigan

ConfigFiles	<i>Setup Config Files</i>
-------------	---------------------------

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	<i>Create detritus/tex/tex-fig-*</i>
----------	--------------------------------------

Description

Create detritus/tex/tex-fig-*

Usage

Detritus(path)

Arguments

path	Character string. Project path.
------	---------------------------------

Author(s)

Ivan Jacob Agaloos Pesigan

Environment	<i>Setup .Renviron</i>
-------------	------------------------

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	<i>Set PROJECT Environment Variable</i>
--------------------	---

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	<i>Set Tokens</i>
-------------------	-------------------

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	<i>Knit .setup/latex/*.Rtex</i>
-----------	---------------------------------

Description

Knit .setup/latex/*.Rtex

Usage

LatexKnit(path)

Arguments

path	Character string. Project path.
------	---------------------------------

Author(s)

Ivan Jacob Agaloos Pesigan

LatexMake	<i>Compile Output of LatexKnit</i>
-----------	------------------------------------

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

LibPaths	<i>Add .library to Library Paths</i>
----------	--------------------------------------

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	<i>Generate License File</i>
---------	------------------------------

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	<i>Install Project Packages from CRAN</i>
------------	---

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

PkgProjectGitHub	<i>Install Project Packages from GitHub</i>
------------------	---

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	<i>Install Project Packages with Specific Version</i>
-------------------	---

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	<i>Setup RStudio Package Manager Repository Based on the Current Operating System</i>
---------	---

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	<i>Setup .Rprofile</i>
---------	------------------------

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	<i>Setup the project.Rproj file</i>
---------	-------------------------------------

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	<i>Build Website</i>
------	----------------------

Description

Build Website

Usage

Site(path)

Arguments

path	Character string. Project path.
------	---------------------------------

Author(s)

Ivan Jacob Agaloos Pesigan

Style	<i>Style Project</i>
-------	----------------------

Description

Style Project

Usage

Style(path)

Arguments

path	Character string. Project path.
------	---------------------------------

Author(s)

Ivan Jacob Agaloos Pesigan

TinyTex	<i>Install ~/.TinyTex</i>
---------	---------------------------

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	<i>Precompile Vignettes</i>
---------------------	-----------------------------

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.

Index

* **data**
z, [23](#)

Bib, [2](#)
BibLib, [3](#)
Binary, [3](#)
Build, [4](#)
BuildIgnore, [4](#)

CFF, [5](#)
Clean, [5](#)
CleanPkg, [6](#)
CleanProj, [6](#)
CleanTinyTex, [7](#)
ConfigFiles, [7](#)
Coverage, [8](#)

DataAnalysis, [8](#)
DataProcess, [9](#)
Dependencies, [9](#)
Detritus, [10](#)

Environment, [10](#)
EnvironmentProject, [11](#)
EnvironmentTokens, [11](#)

InstallLocal, [12](#)

LatexCompile, [12](#)
LatexKnit, [13](#)
LatexMake, [13](#)
LibPaths, [14](#)
License, [14](#)
Lint, [15](#)

Manual, [15](#)

PkgDevel, [16](#)
PkgDevelGitHub, [16](#)
PkgProject, [17](#)
PkgProjectGitHub, [17](#)

PkgProjectVersion, [18](#)
PkgRepo, [18](#)
Profile, [19](#)
Project, [19](#)

Quarto, [20](#)

ReadMe, [20](#)

Site, [21](#)
Style, [21](#)

TinyTex, [22](#)

VignettesPrecompile, [22](#)
z, [23](#)