

# Package ‘rProject’

August 20, 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

<b>Index</b>	<b>24</b>
--------------	-----------

---

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	<i>Install Applications on Local Machine</i>
--------------	--

---

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

---

**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 <a href="https://github.com/rstudio/tinytex-releases#releases">https://github.com/rstudio/tinytex-releases#releases</a> 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](#)