

# Package ‘rProject’

November 21, 2025

**Title** Setup R Project

**Version** 0.0.22

**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** 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

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

**Maintainer** Ivan Jacob Agaloos Pesigan <[ijapesigan@gmail.com](mailto:ijapesigan@gmail.com)>

## Contents

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
LatexTikzCompile . . . . .	14
LibPaths . . . . .	14
License . . . . .	15
Lint . . . . .	15
Manual . . . . .	16
PkgDevel . . . . .	16
PkgDevelGitHub . . . . .	17
PkgProject . . . . .	17
PkgProjectBioconductor . . . . .	18
PkgProjectGitHub . . . . .	18
PkgProjectVersion . . . . .	19
PkgRepo . . . . .	19
Profile . . . . .	20
Project . . . . .	20
Quarto . . . . .	21
ReadMe . . . . .	21
Site . . . . .	22
Style . . . . .	22
TinyTex . . . . .	23
VignettesPrecompile . . . . .	23
z . . . . .	24

---

**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 <code>bib_lib = TRUE</code> , build <code>bib.bib</code> 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	<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	<i>Build Package</i>
-------	----------------------

---

**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 <code>.Rbuildignore</code> .

**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**

<code>path</code>	Character string. Project path.
<code>project</code>	Character string. Project name.
<code>tokens</code>	Named vector of tokens.

**Author(s)**

Ivan Jacob Agaloos Pesigan

---

EnvironmentProject        *Set PROJECT Environment Variable*

---

**Description**

Set PROJECT Environment Variable

**Usage**

`EnvironmentProject(project)`

**Arguments**

<code>project</code>	Character string. Project name.
----------------------	---------------------------------

**Value**

Returns project name.

**Author(s)**

Ivan Jacob Agaloos Pesigan

`EnvironmentTokens`      *Set Tokens*

### Description

Set Tokens

### Usage

```
EnvironmentTokens(tokens)
```

### Arguments

<code>tokens</code>	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

<code>what</code>	Character string. Vector of applications to install. Valid values include "tmux", "julia", "mpdemo", "lazygit", "pfetch", and "quarto".
<code>all</code>	Logical. If <code>all</code> = TRUE, ignore <code>what</code> and install all valid <code>what</code> values.
<code>force</code>	Logical. If <code>force</code> = 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	<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***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	<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	<i>Render Quarto Project</i>
--------	------------------------------

---

**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.

# Index

\* **data**  
  z, 24

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  
LatexTikzCompile, 14  
LibPaths, 14  
License, 15  
Lint, 15

Manual, 16

PkgDevel, 16  
PkgDevelGitHub, 17  
PkgProject, 17

PkgProjectBioconductor, 18  
PkgProjectGitHub, 18  
PkgProjectVersion, 19  
PkgRepo, 19  
Profile, 20  
Project, 20

Quarto, 21

ReadMe, 21

Site, 22  
Style, 22

TinyTex, 23

VignettesPrecompile, 23

z, 24