

# Package ‘rProject’

April 22, 2024

**Title** Setup R Project

**Version** 0.0.10

**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** 7.3.1

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

---

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	<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	<i>Build</i> .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</i> 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)
```

**Arguments**

<code>path</code>	Character string. Project path.
<code>lib</code>	Logical. If <code>lib = TRUE</code> , delete <code>.library</code> . If <code>lib = FALSE</code> , <code>.library</code> is not deleted.

**Author(s)**

Ivan Jacob Agaloos Pesigan

---

`CleanTinyTex`*Clean ~/.TinyTex*

---

**Description**

Uninstall TinyTex.

**Usage**

```
CleanTinyTex(path)
```

**Arguments**

<code>path</code>	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	<i>Copy Dependencies to from .setup/r-dependencies to R</i>
--------------	---

---

**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

*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	<i>Lint Project</i>
------	---------------------

---

**Description**

Lint Project

**Usage**

Lint(path)

**Arguments**

path                      Character string. Project path.

**Author(s)**

Ivan Jacob Agaloos Pesigan

---

Manual	<i>Package Manual</i>
--------	-----------------------

---

**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

---

**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	<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

*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	<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](#)  
LatexTikzCompile, [14](#)  
LibPaths, [14](#)  
License, [15](#)  
Lint, [15](#)

Manual, [16](#)

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

PkgProjectGitHub, [18](#)  
PkgProjectVersion, [18](#)  
PkgRepo, [19](#)  
Profile, [19](#)  
Project, [20](#)

Quarto, [20](#)

ReadMe, [21](#)

Site, [21](#)  
Style, [22](#)

TinyTex, [22](#)

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