

# Package ‘rProject’

July 17, 2023

**Title** Setup R Project

**Version** 0.0.3

**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,  
remotes, RefManageR, rmarkdown, 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
Binary . . . . .	3
Build . . . . .	3
BuildIgnore . . . . .	4
CFF . . . . .	4

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

<b>Index</b>	<b>23</b>
--------------	-----------

---

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

---

## Description

Consolidate .bib files into a Single File

## Usage

Bib(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	<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	<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	<i>Code Coverage</i>
----------	----------------------

---

**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	<i>Setup .Renvi</i> ron
-------------	-------------------------

---

**Description**

Setup .Renvi

**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

---

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	<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, [22](#)

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

CFF, [4](#)  
Clean, [5](#)  
CleanPkg, [5](#)  
CleanProj, [6](#)  
CleanTinyTex, [6](#)  
ConfigFiles, [7](#)  
Coverage, [7](#)

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

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

InstallLocal, [11](#)

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

Manual, [14](#)

PkgDevel, [15](#)  
PkgDevelGitHub, [15](#)  
PkgProject, [16](#)  
PkgProjectGitHub, [16](#)  
PkgProjectVersion, [17](#)  
PkgRepo, [17](#)

Profile, [18](#)  
Project, [18](#)

Quarto, [19](#)

ReadMe, [19](#)

Site, [20](#)  
Style, [20](#)

TinyTex, [21](#)

VignettesPrecompile, [21](#)  
z, [22](#)