

# Package ‘rProject’

August 23, 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

*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 <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](#)