

# Package ‘rProject’

August 14, 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

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

Consolidate .bib files into a Single File

**Usage**

```
Bib(path, lib_bib = FALSE)
```

**Arguments**

path	Character string. Project path.
lib_bib	Logical. If lib_bib = TRUE, build bib.bib from lib-* GitHub repositories.

**Author(s)**

Ivan Jacob Agaloos Pesigan

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BibLib	<i>Copy .bib Files from lib-* GitHub Repositories</i>
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**Description**

Copy .bib Files from lib-\* GitHub Repositories

**Usage**

```
BibLib(path)
```

**Arguments**

path	Character string. Project path.
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**Author(s)**

Ivan Jacob Agaloos Pesigan

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Binary	<i>Setup Binaries not Included in the Package</i>
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**Description**

Setup Binaries not Included in the Package

**Usage**

```
Binary(path)
```

**Arguments**

path	Character string. Project path.
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**Author(s)**

Ivan Jacob Agaloos Pesigan

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Build	<i>Build Package</i>
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**Description**

Build Package

**Usage**

```
Build(path, vignettes = FALSE, dependencies = FALSE, lib_bib = FALSE)
```

**Arguments**

path	Character string. Project path.
vignettes	Logical. Build vignettes.
dependencies	Logical. Install package dependencies.
lib_bib	Logical. If lib_bib = TRUE, build bib.bib from lib-* GitHub repositories.

**Author(s)**

Ivan Jacob Agaloos Pesigan

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BuildIgnore	<i>Build .Rbuildignore</i>
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**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

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CFF	<i>Build CITATION.cff</i>
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**Description**

Build CITATION.cff

**Usage**

CFF(path)

**Arguments**

path	Character string. Project path.
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**Author(s)**

Ivan Jacob Agaloos Pesigan

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Clean	<i>Clean Files Generated on Build</i>
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**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>
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**Description**

Uninstall TinyTex.

**Usage**

CleanTinyTex(path)

**Arguments**

path                      Character string. Project path.

**Author(s)**

Ivan Jacob Agaloos Pesigan

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ConfigFiles	<i>Setup Config Files</i>
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**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

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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



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**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

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Detritus	<i>Create detritus/tex/tex-fig-*</i>
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---

**Description**

Create detritus/tex/tex-fig-\*

**Usage**

Detritus(path)

**Arguments**

path	Character string. Project path.
------	---------------------------------

**Author(s)**

Ivan Jacob Agaloos Pesigan

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Environment	<i>Setup .Renviron</i>
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**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>
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**Description**

Set PROJECT Environment Variable

**Usage**

EnvironmentProject(project)

**Arguments**

project	Character string. Project name.
---------	---------------------------------

**Value**

Returns project name.

**Author(s)**

Ivan Jacob Agaloos Pesigan

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EnvironmentTokens	<i>Set Tokens</i>
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**Description**

Set Tokens

**Usage**

EnvironmentTokens(tokens)

**Arguments**

tokens	Named vector of tokens.
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**Value**

Returns vector of secret tokens.

**Author(s)**

Ivan Jacob Agaloos Pesigan

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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

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LatexKnit	<i>Knit .setup/latex/*.Rtex</i>
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### Description

Knit .setup/latex/\*.Rtex

### Usage

LatexKnit(path)

### Arguments

path	Character string. Project path.
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### Author(s)

Ivan Jacob Agaloos Pesigan

---

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

### Description

Compile Output of LatexKnit

### Usage

LatexMake(path, clean = FALSE, lib\_bib = FALSE)

### Arguments

path	Character string. Project path.
clean	Logical. Clean latexmk output except *.pdf
lib_bib	Logical. If lib_bib = TRUE, build bib.bib from lib-* GitHub repositories.

### Author(s)

Ivan Jacob Agaloos Pesigan

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LibPaths	<i>Add .library to Library Paths</i>
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**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

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License	<i>Generate License File</i>
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**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



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PkgProject	<i>Install Project Packages from CRAN</i>
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---

**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>
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**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>
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---

**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

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PkgRepo	<i>Setup RStudio Package Manager Repository Based on the Current Operating System</i>
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**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>
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---

**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>
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---

**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, lib_bib = FALSE)
```

### Arguments

path	Character string. Project path.
lib_bib	Logical. If lib_bib = TRUE, build bib.bib from lib-* GitHub repositories.

### Author(s)

Ivan Jacob Agaloos Pesigan

---

ReadMe

*Build README.md*

---

### Description

Build README.md

### Usage

```
ReadMe(path, lib_bib = FALSE)
```

### Arguments

path	Character string. Project path.
lib_bib	Logical. If lib_bib = TRUE, build bib.bib from lib-* GitHub repositories.

### Author(s)

Ivan Jacob Agaloos Pesigan

---

Site	<i>Build Website</i>
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---

**Description**

Build Website

**Usage**

```
Site(path, lib_bib = FALSE)
```

**Arguments**

path	Character string. Project path.
lib_bib	Logical. If lib_bib = TRUE, build bib.bib from lib-* GitHub repositories.

**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>
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---

**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

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VignettesPrecompile	<i>Precompile Vignettes</i>
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---

**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.

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