

# Package ‘rProject’

July 26, 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,  
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> |
|-----|--------------------------------------------------|

---

## Description

Consolidate .bib files into a Single File

**Usage**

Bib(path)

**Arguments**

path                      Character string. Project path.

**Author(s)**

Ivan Jacob Agaloos Pesigan

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|        |                                                   |
|--------|---------------------------------------------------|
| 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

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|       |                      |
|-------|----------------------|
| 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

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|     |                           |
|-----|---------------------------|
| 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

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|          |                      |
|----------|----------------------|
| 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



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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

*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> on |
|-------------|------------------------|

---

**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

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|              |                                              |
|--------------|----------------------------------------------|
| 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

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|              |                                    |
|--------------|------------------------------------|
| 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

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|           |                                 |
|-----------|---------------------------------|
| 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

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|          |                                      |
|----------|--------------------------------------|
| 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

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|         |                              |
|---------|------------------------------|
| 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

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|      |                     |
|------|---------------------|
| Lint | <i>Lint Project</i> |
|------|---------------------|

---

**Description**

Lint Project

**Usage**

```
Lint(path)
```

**Arguments**

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

**Author(s)**

Ivan Jacob Agaloos Pesigan

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

---

**Description**

Package Manual

**Usage**

Manual(path, project)

**Arguments**

|         |                                 |
|---------|---------------------------------|
| path    | Character string. Project path. |
| project | Character string. Project name. |

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|          |                                               |
|----------|-----------------------------------------------|
| PkgDevel | <i>Install Development Packages from CRAN</i> |
|----------|-----------------------------------------------|

---

**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 | <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

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|                   |                                                       |
|-------------------|-------------------------------------------------------|
| 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

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|         |                                                                                       |
|---------|---------------------------------------------------------------------------------------|
| 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

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|         |                        |
|---------|------------------------|
| 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

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|        |                              |
|--------|------------------------------|
| 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 | <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

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

---

**Description**

Precompile Vignettes

**Usage**

```
VignettesPrecompile(path)
```

**Arguments**

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

**Author(s)**

Ivan Jacob Agaloos Pesigan

---

|   |                                                   |
|---|---------------------------------------------------|
| z | <i>Data from the Standard Normal Distribution</i> |
|---|---------------------------------------------------|

---

**Description**

Data from the Standard Normal Distribution

**Usage**

```
z
```

**Format**

A vector of length 100.

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