

# Package ‘rProject’

July 9, 2023

**Title** Setup R Project

**Version** 0.0.1

**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

**Roxygen** list(markdown = TRUE)

**VignetteBuilder** knitr

**Depends** R (>= 3.0.0)

**Imports** cffr, covr, devtools, distro, knitr, lintr, pkgdown, quarto,  
remotes, rmarkdown, rprojroot, stats, styler, tinytex, utils

**Suggests** testthat

**RoxygenNote** 7.2.3

**NeedsCompilation** no

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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

*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

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

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|       |                                       |
|-------|---------------------------------------|
| Clean | <i>Clean Files Generated on Build</i> |
|-------|---------------------------------------|

---

**Description**

Delete all output files that are generated on automated build.

**Usage**

Clean(path)

**Arguments**

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

**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

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|              |                         |
|--------------|-------------------------|
| CleanTinyTex | <i>Clean ~/.TinyTex</i> |
|--------------|-------------------------|

---

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

---

**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***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

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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



---

|          |                               |
|----------|-------------------------------|
| 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 | Setup .Renviron |
|-------------|-----------------|

---

**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

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

LatexKnit

*Knit .setup/latex/\*.Rtex*

---

**Description**`Knit .setup/latex/*.Rtex`**Usage**`LatexKnit(path)`**Arguments**

|                   |                                 |
|-------------------|---------------------------------|
| <code>path</code> | Character string. Project path. |
|-------------------|---------------------------------|

**Author(s)**Ivan Jacob Agaloos Pesigan

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LatexMake

*Compile Output of LatexKnit*

---

**Description**`Compile Output of LatexKnit`**Usage**`LatexMake(path, clean = FALSE)`**Arguments**

|                    |  |
|--------------------|--|
| <code>path</code>  | Character string. Project path.            |
| <code>clean</code> | 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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|      |                     |
|------|---------------------|
| 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> |
|--------|-----------------------|

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**Description**

Package Manual

**Usage**

Manual(path, project)

**Arguments**

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

---

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

*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

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PkgProjectVersion

*Install Project Packages with Specific Version*

---

**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

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

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ReadMe

*Build README.md*

---

**Description**

Build README.md

**Usage**

ReadMe(path)

**Arguments**

path                      Character string. Project path.

**Author(s)**

Ivan Jacob Agaloos Pesigan

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Site

*Build Website*

---

**Description**

Build Website

**Usage**

Site(path)

**Arguments**

path                      Character string. Project path.

**Author(s)**

Ivan Jacob Agaloos Pesigan

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|       |                      |
|-------|----------------------|
| Style | <i>Style Project</i> |
|-------|----------------------|

---

**Description**

Style Project

**Usage**

Style(path)

**Arguments**

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

**Author(s)**

Ivan Jacob Agaloos Pesigan

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

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