

Package ‘rProject’

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Title Setup R Project

Version 0.0.23

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>

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Encoding UTF-8

LazyData true

Roxygen list(markdown = TRUE)

VignetteBuilder knitr

Depends R (>= 3.5.0)

Imports BiocManager, cffr, covr, devtools, distro, knitr, lintr,
pkgdown, quarto, Rcpp, remotes, RefManageR, rmarkdown,
roxygen2, rprojroot, stats, styler, tinytex, utils

Suggests testthat

RoxygenNote 7.3.3.9000

NeedsCompilation no

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Bib *Consolidate .bib files into a Single File*

Description

Consolidate .bib files into a Single File

Usage

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

Arguments

path	Character string. Project path.
bib_lib	Logical. If <code>bib_lib = TRUE</code> , build <code>bib.bib</code> from lib-* GitHub repositories.

Author(s)

Ivan Jacob Agaloos Pesigan

BibLib *Copy .bib Files from lib-* GitHUb Repositories*

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

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.

Author(s)

Ivan Jacob Agaloos Pesigan

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

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 <code>.Rbuildignore</code> .

Author(s)

Ivan Jacob Agaloos Pesigan

CFF

Build CITATION.cff

Description

`Build CITATION.cff`

Usage

`CFF(path)`

Arguments

path	Character string. Project path.
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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, sim = FALSE, sif = FALSE)
```

Arguments

path	Character string. Project path.
lib	Logical. If lib = TRUE, delete .library. If lib = FALSE, .library is not deleted.
sim	Logical. If sim = TRUE, delete .sim. If sim = FALSE, .sim is not deleted.
sif	Logical. If sif = TRUE, delete .sif. If sif = FALSE, .sif is not deleted.

Author(s)

Ivan Jacob Agaloos Pesigan

CleanTinyTex

Clean ~/.TinyTex

Description

Uninstall TinyTex.

Usage

```
CleanTinyTex(path)
```

Arguments

path	Character string. Project path.
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Author(s)

Ivan Jacob Agaloos Pesigan

ConfigFiles*Setup Config Files*

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

*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

<code>path</code>	Character string. Project path.
<code>project</code>	Character string. Project name.
<code>tokens</code>	Named vector of tokens.

Author(s)

Ivan Jacob Agaloos Pesigan

EnvironmentProject *Set PROJECT Environment Variable*

Description

Set PROJECT Environment Variable

Usage

`EnvironmentProject(project)`

Arguments

<code>project</code>	Character string. Project name.
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Value

Returns project name.

Author(s)

Ivan Jacob Agaloos Pesigan

`EnvironmentTokens` *Set Tokens*

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

`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 <code>all</code> = TRUE, ignore <code>what</code> and install all valid <code>what</code> values.
force	Logical. If <code>force</code> = 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

Knit .setup/latex/.Rtex*

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

Compile Output of LatexKnit

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

LatexTikzCompile

Compile Tikz

Description

Compile Tikz

Usage

```
LatexTikzCompile(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>
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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

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

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

PkgProjectBioconductor*Install Project Packages from Bioconductor*

Description

Install Project Packages from Bioconductor

Usage

```
PkgProjectBioconductor(path, pkg)
```

Arguments

path	Character string. Project path.
pkg	Character vector. Bioconductor 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 *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

PkgRepo

Setup RStudio Package Manager Repository Based on the Current Operating System

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

Setup .Rprofile

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	<i>Render Quarto Project</i>
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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

Style Project

Description

Style Project

Usage

Style(path)

Arguments

path Character string. Project path.

Author(s)

Ivan Jacob Agaloos Pesigan

TinyTex

Install ~/.TinyTex

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 <https://github.com/rstudio/tinytex-releases#releases> for all possible bundles and their meanings.

force Logical. Force install.

Author(s)

Ivan Jacob Agaloos Pesigan

VignettesPrecompile *Precompile Vignettes*

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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