

Package ‘rProject’

February 3, 2024

Title Setup R Project

Version 0.0.7

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 7.3.1

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, 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 | <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

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

Description

Lint Project

Usage

Lint(path)

Arguments

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

Author(s)

Ivan Jacob Agaloos Pesigan

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

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 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 | <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.

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