

Package ‘RLumBuild’

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Type Package

Title RLum Universe Package Building

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Description Build packages from the RLum-universe.
A collection of tools and scripts to unify the building of packages.

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BugReports <https://github.com/R-Lum/RLumBuild/issues>

URL <https://github.com/R-Lum/RLumBuild>

Depends R (>= 4.2.0),
utils

Imports crayon (>= 1.5.2),
rmarkdown (>= 2.25),
cli (>= 3.6.2),
codemetar (>= 0.3.5),
devtools (>= 2.4.5),
jsonlite (>= 1.8.8),
miniCRAN (>= 0.2.16),
pander (>= 0.6.5),
pkgbuild (>= 1.4.3),
roxygen2 (>= 7.3.1),
Rcpp (>= 1.0.12),
R2HTML (>= 2.3.3),
stringi (>= 1.8.3),
stringr (>= 1.5.1),
tools,
xtable (>= 1.8-4)

Encoding UTF-8

LazyData true

RoxygenNote 7.3.1

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 RLumBuild-package

RLum Universe Package Building #'

Description

Build packages from the RLum-universe. A collection of tools and scripts to unify the building of packages.

Details

Funding

In 2019, the work of Sebastian Kreutzer as maintainer of the package was supported by the LabEx LaScArBxSK (ANR - n. ANR-10-LABX-52).

Author(s)

Maintainer: Sebastian Kreutzer <sebastian.kreutzer@uni-heidelberg.de> ([ORCID](#))

Authors:

- Christoph Burow ([ORCID](#))

See Also

Useful links:

- <https://github.com/R-Lum/RLumBuild>
- Report bugs at <https://github.com/R-Lum/RLumBuild/issues>

Description

Central function to run the package build process.

Usage

```
build_package(  
  path = ".",  
  exclude = NULL,  
  write_Rbuildignore = TRUE,  
  as_cran = FALSE  
)
```

Arguments

path	character (with default): set package path
exclude	character (optional): names of build modules you want to exclude]
write_Rbuildignore	logical (optional): writes are master build-ignore
as_cran	logical (with default): enable/disable --as-cran check

Function version

0.1.0

Author(s)

Sebastian Kreutzer, Institute of Geography, Heidelberg University (Germany) , RLum Developer Team

Examples

```
print("This is only to silence the CRAN check")  
  
## Not run:  
build_package()  
  
## End(Not run)
```

module_add_HowToCite *Add How to Cite Section*

Description

Adds a function tailored section 'How to Cite' to each manual page as long as author names and a section 'Function version' exists.

Usage

```
module_add_HowToCite()
```

Details

Output example

Burow, C., Kreutzer, S. (2019). module_add_HowToCite(): Add How to Cite Section. Function version 0.1.0. In: Kreutzer, S., Burow, C. (2019). RLumBuild: RLum Universe Package BuildingR package version 0.1.1.9000-5. <https://github.com/R-Lum/RLumBuild>

Function version

0.3.0

Author(s)

Christoph Burow (Germany), Sebastian Kreutzer, IRAMAT-CRP2A, UMR 5060, CNRS - Université Bordeaux Montaigne (France) , RLum Developer Team

module_add_RLumTeam *Module: add RLum-Team and update version timestamp*

Description

If the package was supported by the RLumTeam (the standard) the RLum-Team is added as author to all functions.

Usage

```
module_add_RLumTeam()
```

Function version

0.1.0

Author(s)

Sebastian Kreutzer, Institute of Geography, Heidelberg University (Germany) , RLum Developer Team

`module_build_documentation`*Module: Build Documentation*

Description

Create documentation using roxygen2

Usage

```
module_build_documentation()
```

Function version

0.1.0

Author(s)

Sebastian Kreutzer, Institute of Geography, Heidelberg University (Germany) , RLum Developer Team

`module_check_ReverseDependencies`*Check Reverse Dependencies*

Description

Check the reverse dependencies of the package

Usage

```
module_check_ReverseDependencies()
```

Function version

0.1.0

Author(s)

Sebastian Kreutzer, Institute of Geography, Heidelberg University (Germany) , RLum Developer Team

module_compactVignette

Module: compact_Vignette

Description

Try to further downsize the vignette, so far available

Usage

```
module_compactVignette()
```

Function version

0.1.0

Author(s)

Sebastian Kreutzer, Institute of Geography, Heidelberg University (Germany) , RLum Developer Team

module_compile_Attributes

Module: Compile attributes

Description

Compile C++ attributes if such code is part of the package

Usage

```
module_compile_Attributes()
```

Function version

0.1.0

Author(s)

Sebastian Kreutzer, Institute of Geography, Heidelberg University (Germany) , RLum Developer Team

module_create_DependencyGraph
Create Dependency Graph

Description

Create package dependency graph

Usage

```
module_create_DependencyGraph(  
  Rversion = paste(R.version[c("major", "minor")], collapse = ".")  
)
```

Arguments

Rversion [character] (with default): R version for which the graph is created

Details

The script based on:

Function version

0.1.0

Note

Module currently not activated

Author(s)

Sebastian Kreutzer, Institute of Geography, Heidelberg University (Germany) , RLum Developer Team

module_knit_NEWS *Module: Knit NEWS*

Description

Create NEWS.md from NEWS.Rmd

Usage

```
module_knit_NEWS()
```

Function version

0.1.0

Author(s)

Sebastian Kreutzer, Institute of Geography, Heidelberg University (Germany) , RLum Developer Team

module_knit_README	<i>Module: Knit README</i>
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Description

Create README.md from README.Rmd

Usage

module_knit_README()

Function version

0.1.0

Author(s)

Sebastian Kreutzer, Institute of Geography, Heidelberg University (Germany) , RLum Developer Team

module_set_VersionNumber	<i>Module: set_VersionNumber</i>
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Description

Automatically set version number in DESCRIPTION file if the pattern '.9000' is found.

Usage

module_set_VersionNumber()

Details

If the package is under development it is somehow meaningful to easily distinguish between different build versions. In the R community the pattern '.9000' in a version number is used to declare a package under development. If such pattern is found, the module either adds '-1' or if already there, increase such number by '1' every time the package is built.

For release versions the patten '.9000' is removed from the DESCRIPTION file and nothing is done if the module is run.

Function version

0.1.0

Author(s)

Sebastian Kreutzer, Institute of Geography, Heidelberg University (Germany) , RLum Developer Team

module_update_datalist

Update datalist

Description

Updates the file 'data/datalist' if available. The standard CRAN functionality only works for data > 1 MB. For whatever reason.

Usage

```
module_update_datalist()
```

Function version

0.1.0

Author(s)

Sebastian Kreutzer, Institute of Geography, Heidelberg University (Germany) , RLum Developer Team

module_update_zenodoJSON

Module: Update .zenodo.json file

Description

Automatically update the .zenodo.json file

Usage

```
module_update_zenodoJSON()
```

Details

A small helper to make sure that we have not to take care update 'version', 'title' and 'description' in the 'zenodo.json' file

Function version

0.1.0

Author(s)

Sebastian Kreutzer, Institute of Geography, Heidelberg University (Germany) , RLum Developer Team

module_verify_ExampleTimings
Verify Example Timings

Description

Check and display the timing results of the example checks to avoid too long example runs.

Usage

module_verify_ExampleTimings()

Function version

0.1.0

Author(s)

Sebastian Kreutzer, Institute of Geography, Heidelberg University (Germany) , RLum Developer Team

module_write_BibTeX *Create Package BibTeX file*

Description

A BibTeX file to be used to cite the package is automatically created.

Usage

module_write_BibTeX()

Function version

0.1.0

Author(s)

Sebastian Kreutzer, Institute of Geography, Heidelberg University (Germany) , RLum Developer Team

`module_write_codemetar`*Create Codemetar JSON-LD file*

Description

Add JSON-LD file to make the package more tracable

Usage

```
module_write_codemetar()
```

Function version

0.1.0

Author(s)

Sebastian Kreutzer, Institute of Geography, Heidelberg University (Germany) , RLum Developer Team

See Also

[codemetar::create_codemeta]

`module_write_FunctionList`*Write Function Argument List*

Description

Create a spread-sheet table with all function arguments

Create a HTML and markdown list of all major functions in the package

Usage

```
module_write_FunctionList()
```

```
module_write_FunctionList()
```

Details

Pevious versions were written by Michael Dietze and Sebastian Kreutzer. This version programmatically fetches all functions and arguments and does not rely on parsing the .Rd files with regular expressions.

Function version

0.1.0

0.1.0

Author(s)

Christoph Burow, Sebastian Kreutzer, Institute of Geography, Heidelberg University (Germany)

Sebastian Kreutzer, Institute of Geography, Heidelberg University (Germany) , RLum Developer Team

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