Package 'RLumBuild'

July 12, 2024

```
Type Package
Title RLum Universe Package Building
Version 0.1.8.9000-5
Date 2024-07-12
Author Sebastian Kreutzer [aut, cre] (<a href="https://orcid.org/0000-0002-0734-2199">https://orcid.org/0000-0002-0734-2199</a>),
      Christoph Burow [aut] (<a href="https://orcid.org/0000-0002-5023-4046">https://orcid.org/0000-0002-5023-4046</a>)
Maintainer Sebastian Kreutzer < sebastian.kreutzer@uni-heidelberg.de>
Description Build packages from the RLum-universe.
      A collection of tools and scripts to unify the building of packages.
License GPL-3
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 (\geq 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 7.3.2
```

2 RLumBuild-package

Contents

	RLumBuild-package	2
	build_package	3
	module_add_HowToCite	4
	module_add_RLumTeam	4
	module_build_documentation	5
	module_check_ReverseDependencies	5
	module_compactVignette	6
	module_compile_Attributes	7
	module_create_DependencyGraph	7
		8
	module_knit_README	9
	module_set_VersionNumber	9
	module_update_datalist	
	module_update_zenodoJSON	
	module_verify_ExampleTimings	
	module_write_BibTeX	
	module_write_codemetar	
	module_write_FunctionList	
Index		14
		—

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

build_package 3

build_package

Check and Build Package

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

How to cite

Kreutzer, S., 2024. build_package(): Check and Build Package. Function version 0.1.0. In: Kreutzer, S., Burow, C., 2024. RLumBuild: RLum Universe Package Building. R package version 0.1.8.9000-5. https://github.com/R-Lum/RLumBuild

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

How to cite

Burow, C., Kreutzer, S., 2024. module_add_HowToCite(): Add How to Cite Section. Function version 0.3.0. In: Kreutzer, S., Burow, C., 2024. RLumBuild: RLum Universe Package Building. R package version 0.1.8.9000-5. https://github.com/R-Lum/RLumBuild

Author(s)

Christoph Burow (Germany), Sebastian Kreutzer, IRAMAT-CRP2A, UMR 5060, CNRS - Université Bordeaux Montaigne (Frange), 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

How to cite

Kreutzer, S., 2024. module_add_RLumTeam(): Module: add RLum-Team and update version timestamp. Function version 0.1.0. In: Kreutzer, S., Burow, C., 2024. RLumBuild: RLum Universe Package Building. R package version 0.1.8.9000-5. https://github.com/R-Lum/RLumBuild

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

How to cite

Kreutzer, S., 2024. module_build_documentation(): Module: Build Documentation. Function version 0.1.0. In: Kreutzer, S., Burow, C., 2024. RLumBuild: RLum Universe Package Building. R package version 0.1.8.9000-5. https://github.com/R-Lum/RLumBuild

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

How to cite

Kreutzer, S., 2024. module_check_ReverseDependencies(): Check Reverse Dependencies. Function version 0.1.0. In: Kreutzer, S., Burow, C., 2024. RLumBuild: RLum Universe Package Building. R package version 0.1.8.9000-5. https://github.com/R-Lum/RLumBuild

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

How to cite

Kreutzer, S., 2024. module_compactVignette(): Module: compact_Vignette. Function version 0.1.0. In: Kreutzer, S., Burow, C., 2024. RLumBuild: RLum Universe Package Building. R package version 0.1.8.9000-5. https://github.com/R-Lum/RLumBuild

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

How to cite

Kreutzer, S., 2024. module_compile_Attributes(): Module: Compile attributes. Function version 0.1.0. In: Kreutzer, S., Burow, C., 2024. RLumBuild: RLum Universe Package Building. R package version 0.1.8.9000-5. https://github.com/R-Lum/RLumBuild

Author(s)

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

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:

8 module_knit_NEWS

Function version

0.1.0

How to cite

Kreutzer, S., 2024. module_create_DependencyGraph(): Create Dependency Graph. Function version 0.1.0. In: Kreutzer, S., Burow, C., 2024. RLumBuild: RLum Universe Package Building. R package version 0.1.8.9000-5. https://github.com/R-Lum/RLumBuild

Note

Module currently not acctivated

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

How to cite

Kreutzer, S., 2024. module_knit_NEWS(): Module: Knit NEWS. Function version 0.1.0. In: Kreutzer, S., Burow, C., 2024. RLumBuild: RLum Universe Package Building. R package version 0.1.8.9000-5. https://github.com/R-Lum/RLumBuild

Author(s)

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

module_knit_README

Module: Knit README

Description

Create README.md from README.Rmd

Usage

```
module_knit_README()
```

Function version

0.1.0

How to cite

Kreutzer, S., 2024. module_knit_README(): Module: Knit README. Function version 0.1.0. In: Kreutzer, S., Burow, C., 2024. RLumBuild: RLum Universe Package Building. R package version 0.1.8.9000-5. https://github.com/R-Lum/RLumBuild

Author(s)

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

```
module_set_VersionNumber
```

Module: set_VersionNumber

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 their, increase such number by '1' every time the package is built.

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

Function version

0.1.0

How to cite

Kreutzer, S., 2024. module_set_VersionNumber(): Module: set_VersionNumber. Function version 0.1.0. In: Kreutzer, S., Burow, C., 2024. RLumBuild: RLum Universe Package Building. R package version 0.1.8.9000-5. https://github.com/R-Lum/RLumBuild

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

How to cite

Kreutzer, S., 2024. module_update_datalist(): Update datalist. Function version 0.1.0. In: Kreutzer, S., Burow, C., 2024. RLumBuild: RLum Universe Package Building. R package version 0.1.8.9000-5. https://github.com/R-Lum/RLumBuild

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

How to cite

Kreutzer, S., 2024. module_update_zenodoJSON(): Module: Update .zenodo.json file. Function version 0.1.0. In: Kreutzer, S., Burow, C., 2024. RLumBuild: RLum Universe Package Building. R package version 0.1.8.9000-5. https://github.com/R-Lum/RLumBuild

Author(s)

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

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

How to cite

Kreutzer, S., 2024. module_verify_ExampleTimings(): Verify Example Timings. Function version 0.1.0. In: Kreutzer, S., Burow, C., 2024. RLumBuild: RLum Universe Package Building. R package version 0.1.8.9000-5. https://github.com/R-Lum/RLumBuild

Author(s)

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

Description

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

Usage

```
module_write_BibTeX()
```

Function version

0.1.0

How to cite

Kreutzer, S., 2024. module_write_BibTeX(): Create Package BibTeX file. Function version 0.1.0. In: Kreutzer, S., Burow, C., 2024. RLumBuild: RLum Universe Package Building. R package version 0.1.8.9000-5. https://github.com/R-Lum/RLumBuild

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 file to make the package more tracable

Usage

```
module_write_codemetar()
```

Function version

0.1.0

How to cite

Kreutzer, S., 2024. module_write_codemetar(): Create Codemetar JSON-LD file. Function version 0.1.0. In: Kreutzer, S., Burow, C., 2024. RLumBuild: RLum Universe Package Building. R package version 0.1.8.9000-5. https://github.com/R-Lum/RLumBuild

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

How to cite

Burow, C., Kreutzer, S., 2024. module_write_FunctionList(): Write Function Argument List. Function version 0.1.0. In: Kreutzer, S., Burow, C., 2024. RLumBuild: RLum Universe Package Building. R package version 0.1.8.9000-5. https://github.com/R-Lum/RLumBuild

Author(s)

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

Index

```
* package
    RLumBuild-package, 2
build_package, 3
character, 3
logical, 3
module_add_HowToCite, 4
module_add_RLumTeam, 4
module_build_documentation, 5
module_check_ReverseDependencies, 5
module_compactVignette, 6
module_compile_Attributes, 7
module_create_DependencyGraph, 7
{\tt module\_knit\_NEWS}, \\ 8
\verb|module_knit_README|, 9
module_set_VersionNumber, 9
module_update_datalist, 10
{\tt module\_update\_zenodoJSON,\,10}
module_verify_ExampleTimings, 11
module_write_BibTeX, 12
module_write_codemetar, 12
{\tt module\_write\_FunctionList, 13}
RLumBuild (RLumBuild-package), 2
RLumBuild-package, 2
```