Package 'RLumBuild'

July 15, 2021

```
Type Package
Title RLum Universe Package Building
Version 0.1.6
Date 2021-07-15
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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 (>= 4.0.0),
      utils
Imports crayon (>= 1.4.1),
      rmarkdown (>= 2.9),
      cli (>= 3.0.0),
      codemetar (>= 0.3.1),
      devtools (\geq 2.4.2),
      jsonlite (>= 1.7.2),
      miniCRAN (>= 0.2.14),
      pander (>= 0.6.4),
      pkgbuild (>= 1.2.0),
      roxygen2 (>= 7.1.1),
      Rcpp (>= 1.0.7),
      R2HTML (>= 2.3.2),
      stringi (>= 1.7.2),
      stringr (>= 1.4.0),
      tools,
      xtable (>= 1.8-4)
Encoding UTF-8
LazyData true
RoxygenNote 7.1.1
```

2 build_package

R topics documented:

	RLumBuild-package	
	build_package	
	module_add_HowToCite	
	module_add_RLumTeam	
	module_build_documentation	
	module_check_ReverseDependencies	
	module_compactVignette	
	module_compile_Attributes	
	module_create_DependencyGraph	
	module_knit_NEWS	
	module_knit_README	
	module_set_VersionNumber	
	module_update_datalist	
	module_update_zenodoJSON	
	module_verify_ExampleTimings	
	module_write_BibTeX	
	module_write_codemetar	
	module_write_FunctionList	
Index		1
RLum	Build-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).

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

```
character (with default): set package path
path
                  character (optional): names of build modules you want to exclude]
exclude
write_Rbuildignore
```

logical (optional): writes are master build-ignore

logical (with default): enable/disable --as-cran check as_cran

Function version

0.1.0

How to cite

Kreutzer, S., 2021. build_package(): Check and Build Package. Function version 0.1.0. In: Kreutzer, S., Burow, C., 2021. RLumBuild: RLum Universe Package Building. R package version 0.1.6. https://github.com/R-Lum/RLumBuild

Author(s)

Sebastian Kreutzer, Geography & Earth Sciences, Aberystwyth University (United Kingdom), 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., 2021. module_add_HowToCite(): Add How to Cite Section. Function version 0.3.0. In: Kreutzer, S., Burow, C., 2021. RLumBuild: RLum Universe Package Building. R package version 0.1.6. 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., 2021. module_add_RLumTeam(): Module: add RLum-Team and update version timestamp. Function version 0.1.0. In: Kreutzer, S., Burow, C., 2021. RLumBuild: RLum Universe Package Building. R package version 0.1.6. https://github.com/R-Lum/RLumBuild

Author(s)

 $module_build_documentation$

Module: Build Documentation

Description

Create documentation using roxygen2

Usage

module_build_documentation()

Function version

0.1.0

How to cite

Kreutzer, S., 2021. module_build_documentation(): Module: Build Documentation. Function version 0.1.0. In: Kreutzer, S., Burow, C., 2021. RLumBuild: RLum Universe Package Building. R package version 0.1.6. https://github.com/R-Lum/RLumBuild

Author(s)

Sebastian Kreutzer, Geography & Earth Sciences, Aberystwyth University (United Kingdom) , 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., 2021. module_check_ReverseDependencies(): Check Reverse Dependencies. Function version 0.1.0. In: Kreutzer, S., Burow, C., 2021. RLumBuild: RLum Universe Package Building. R package version 0.1.6. https://github.com/R-Lum/RLumBuild

Author(s)

Sebastian Kreutzer, Geography & Earth Sciences, Aberystwyth University (United Kingdom) , 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., 2021. module_compactVignette(): Module: compact_Vignette. Function version 0.1.0. In: Kreutzer, S., Burow, C., 2021. RLumBuild: RLum Universe Package Building. R package version 0.1.6. https://github.com/R-Lum/RLumBuild

Author(s)

Sebastian Kreutzer, Geography & Earth Sciences, Aberystwyth University (United Kingdom) , 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., 2021. module_compile_Attributes(): Module: Compile attributes. Function version 0.1.0. In: Kreutzer, S., Burow, C., 2021. RLumBuild: RLum Universe Package Building. R package version 0.1.6. https://github.com/R-Lum/RLumBuild

Author(s)

Sebastian Kreutzer, Geography & Earth Sciences, Aberystwyth University (United Kingdom) , RLum Developer Team

```
{\it module\_create\_DependencyGraph} \\ {\it 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

How to cite

Kreutzer, S., 2021. module_create_DependencyGraph(): Create Dependency Graph. Function version 0.1.0. In: Kreutzer, S., Burow, C., 2021. RLumBuild: RLum Universe Package Building. R package version 0.1.6. https://github.com/R-Lum/RLumBuild

Note

Module currently not acctivated

Author(s)

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., 2021. module_knit_NEWS(): Module: Knit NEWS. Function version 0.1.0. In: Kreutzer, S., Burow, C., 2021. RLumBuild: RLum Universe Package Building. R package version 0.1.6. https://github.com/R-Lum/RLumBuild

Author(s)

Sebastian Kreutzer, Geography & Earth Sciences, Aberystwyth University (United Kingdom) , 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., 2021. module_knit_README(): Module: Knit README. Function version 0.1.0. In: Kreutzer, S., Burow, C., 2021. RLumBuild: RLum Universe Package Building. R package version 0.1.6. https://github.com/R-Lum/RLumBuild

Author(s)

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., 2021. module_set_VersionNumber(): Module: set_VersionNumber. Function version 0.1.0. In: Kreutzer, S., Burow, C., 2021. RLumBuild: RLum Universe Package Building. R package version 0.1.6. https://github.com/R-Lum/RLumBuild

Author(s)

Sebastian Kreutzer, Geography & Earth Sciences, Aberystwyth University (United Kingdom) , 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., 2021. module_update_datalist(): Update datalist. Function version 0.1.0. In: Kreutzer, S., Burow, C., 2021. RLumBuild: RLum Universe Package Building. R package version 0.1.6. https://github.com/R-Lum/RLumBuild

Author(s)

Sebastian Kreutzer, Geography & Earth Sciences, Aberystwyth University (United Kingdom) , 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., 2021. module_update_zenodoJSON(): Module: Update .zenodo.json file. Function version 0.1.0. In: Kreutzer, S., Burow, C., 2021. RLumBuild: RLum Universe Package Building. R package version 0.1.6. https://github.com/R-Lum/RLumBuild

Author(s)

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., 2021. module_verify_ExampleTimings(): Verify Example Timings. Function version 0.1.0. In: Kreutzer, S., Burow, C., 2021. RLumBuild: RLum Universe Package Building. R package version 0.1.6. https://github.com/R-Lum/RLumBuild

Author(s)

Sebastian Kreutzer, Geography & Earth Sciences, Aberystwyth University (United Kingdom) , 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

How to cite

Kreutzer, S., 2021. module_write_BibTeX(): Create Package BibTeX file. Function version 0.1.0. In: Kreutzer, S., Burow, C., 2021. RLumBuild: RLum Universe Package Building. R package version 0.1.6. https://github.com/R-Lum/RLumBuild

Author(s)

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., 2021. module_write_codemetar(): Create Codemetar JSON-LD file. Function version 0.1.0. In: Kreutzer, S., Burow, C., 2021. RLumBuild: RLum Universe Package Building. R package version 0.1.6. https://github.com/R-Lum/RLumBuild

Author(s)

Sebastian Kreutzer, Geography & Earth Sciences, Aberystwyth University (United Kingdom) , 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., 2021. module_write_FunctionList(): Write Function Argument List. Function version 0.1.0. In: Kreutzer, S., Burow, C., 2021. RLumBuild: RLum Universe Package Building. R package version 0.1.6. https://github.com/R-Lum/RLumBuild

Author(s)

Christoph Burow, Sebastian Kreutzer, Geography & Earth Sciences, Aberystwyth University (United Kingdom)

Index

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