Package 'RLumBuild'

November 13, 2023

Type Package

Title RLum Universe Package Building

Version 0.1.7.9000-5

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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 (>= 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 7.2.3

Table of contents:

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

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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., 2023. build_package(): Check and Build Package. Function version 0.1.0. In: Kreutzer, S., Burow, C., 2023. RLumBuild: RLum Universe Package Building. R package version 0.1.7.9000-5. 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., 2023. module_add_HowToCite(): Add How to Cite Section. Function version 0.3.0. In: Kreutzer, S., Burow, C., 2023. RLumBuild: RLum Universe Package Building. R package version 0.1.7.9000-5. 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

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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., 2023. module_add_RLumTeam(): Module: add RLum-Team and update version timestamp. Function version 0.1.0. In: Kreutzer, S., Burow, C., 2023. RLumBuild: RLum Universe Package Building. R package version 0.1.7.9000-5. https://github.com/R-Lum/RLumBuild

Author(s)

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

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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., 2023. module_build_documentation(): Module: Build Documentation. Function version 0.1.0. In: Kreutzer, S., Burow, C., 2023. RLumBuild: RLum Universe Package Building. R package version 0.1.7.9000-5. https://github.com/R-Lum/RLumBuild

Author(s)

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

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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., 2023. module_check_ReverseDependencies(): Check Reverse Dependencies. Function version 0.1.0. In: Kreutzer, S., Burow, C., 2023. RLumBuild: RLum Universe Package Building. R package version 0.1.7.9000-5. https://github.com/R-Lum/RLumBuild

Author(s)

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

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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., 2023. module_compactVignette(): Module: compact_Vignette. Function version 0.1.0. In: Kreutzer, S., Burow, C., 2023. RLumBuild: RLum Universe Package Building. R package version 0.1.7.9000-5. https://github.com/R-Lum/RLumBuild

Author(s)

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

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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., 2023. module_compile_Attributes(): Module: Compile attributes. Function version 0.1.0. In: Kreutzer, S., Burow, C., 2023. RLumBuild: RLum Universe Package Building. R package version 0.1.7.9000-5. https://github.com/R-Lum/RLumBuild

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

How to cite

Kreutzer, S., 2023. module_create_DependencyGraph(): Create Dependency Graph. Function version 0.1.0. In: Kreutzer, S., Burow, C., 2023. RLumBuild: RLum Universe Package Building. R package version 0.1.7.9000-5. https://github.com/R-Lum/RLumBuild

Note

Module currently not acctivated

Author(s)

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

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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., 2023. module_knit_NEWS(): Module: Knit NEWS. Function version 0.1.0. In:
Kreutzer, S., Burow, C., 2023. RLumBuild: RLum Universe Package Building. R package version
0.1.7.9000-5. https://github.com/R-Lum/RLumBuild

Author(s)

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

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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., 2023. module_knit_README(): Module: Knit README. Function version 0.1.0.
In: Kreutzer, S., Burow, C., 2023. RLumBuild: RLum Universe Package Building. R package
version 0.1.7.9000-5. 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., 2023. module_set_VersionNumber(): Module: set_VersionNumber. Function version 0.1.0. In: Kreutzer, S., Burow, C., 2023. RLumBuild: RLum Universe Package Building. R package version 0.1.7.9000-5. https://github.com/R-Lum/RLumBuild

Author(s)

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

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```
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., 2023. module_update_datalist(): Update datalist. Function version 0.1.0. In: Kreutzer, S., Burow, C., 2023. RLumBuild: RLum Universe Package Building. R package version 0.1.7.9000-5. https://github.com/R-Lum/RLumBuild

Author(s)

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

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```
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., 2023. module_update_zenodoJSON(): Module: Update .zenodo.json file. Function version 0.1.0. In: Kreutzer, S., Burow, C., 2023. RLumBuild: RLum Universe Package Building. R package version 0.1.7.9000-5. https://github.com/R-Lum/RLumBuild

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

How to cite

Kreutzer, S., 2023. module_verify_ExampleTimings(): Verify Example Timings. Function version 0.1.0. In: Kreutzer, S., Burow, C., 2023. RLumBuild: RLum Universe Package Building. R package version 0.1.7.9000-5. https://github.com/R-Lum/RLumBuild

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

How to cite

Kreutzer, S., 2023. module_write_BibTeX(): Create Package BibTeX file. Function version 0.1.0. In: Kreutzer, S., Burow, C., 2023. RLumBuild: RLum Universe Package Building. R package version 0.1.7.9000-5. https://github.com/R-Lum/RLumBuild

Author(s)

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

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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., 2023. module_write_codemetar(): Create Codemetar JSON-LD file. Function version 0.1.0. In: Kreutzer, S., Burow, C., 2023. RLumBuild: RLum Universe Package Building. R package version 0.1.7.9000-5. https://github.com/R-Lum/RLumBuild

Author(s)

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

See Also

[codemetar::create_codemeta]

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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., 2023. module_write_FunctionList(): Write Function Argument List. Function version 0.1.0. In: Kreutzer, S., Burow, C., 2023. RLumBuild: RLum Universe Package Building. R package version 0.1.7.9000-5. https://github.com/R-Lum/RLumBuild

Author(s)

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