

# Package ‘RLumBuild’

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**Type** Package

**Title** RLum Universe Package Building

**Version** 0.1.7.9000-10

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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** 7.3.1

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 RLumBuild-package

*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.

## 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	<b>character</b> (with default): set package path
exclude	<b>character</b> (optional): names of build modules you want to exclude]
write_Rbuildignore	<b>logical</b> (optional): writes are master build-ignore
as_cran	<b>logical</b> (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

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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]

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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

**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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