

# Package ‘RLumBuild’

May 2, 2019

**Type** Package

**Title** RLum Universe Package Building

**Version** 0.1.0.9000-47

**Date** 2019-05-02

**Author** Sebastian Kreutzer [aut, cre] (<<https://orcid.org/0000-0002-0734-2199>>),  
Christoph Burow [aut] (<<https://orcid.org/0000-0002-5023-4046>>)

**Maintainer** Sebastian Kreutzer <[sebastian.kreutzer@u-bordeaux-montaigne.fr](mailto:sebastian.kreutzer@u-bordeaux-montaigne.fr)>

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

**License** GPL-3

**Depends** R (>= 3.4.0),  
utils

**Imports** crayon (>= 1.3.4),  
rmarkdown (>= 1.12),  
cli (>= 1.1.0),  
devtools (>= 2.0.2),  
miniCRAN (>= 0.2.11),  
stringi (>= 1.4.3),  
stringr (>= 1.4.0),  
roxygen2 (>= 6.1.1),  
Rcpp (>= 1.0.1),  
R2HTML (>= 2.3.2),  
pander (>= 0.6.3),  
xtable (>= 1.8-4)

**Encoding** UTF-8

**LazyData** true

**RoxygenNote** 6.1.1

## R topics documented:

RLumBuild-package . . . . .	2
build_package . . . . .	2
module_add_HowToCite . . . . .	3
module_add_RLumTeam . . . . .	3
module_build_documentation . . . . .	4
module_check_ReverseDependencies . . . . .	4

module_compile_Attributes . . . . .	5
module_create_DependencyGraph . . . . .	5
module_knit_NEWS . . . . .	6
module_knit_README . . . . .	6
module_register_EntryPoints . . . . .	6
module_set_VersionNumber . . . . .	6
module_verify_ExampleTimings . . . . .	7
module_write_BibTeX . . . . .	7
module_write_FunctionList . . . . .	8

<b>Index</b>	<b>9</b>
--------------	----------

---

RLumBuild-package	<i>RLum Universe Package Building #'</i>
-------------------	--

---

## 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	<i>Check and Build Package</i>
---------------	--------------------------------

---

## Description

Check and Build Package

## 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

## How to cite

Kreutzer, S. (2019). build\_package(): Check and Build Package. In: Kreutzer, S., Burow, C. (2019). RLumBuild: RLum Universe Package BuildingR package version 0.1.0.9000-47. <https://CRAN.R-project.org/package=RLumBuild>

**Author(s)**

Sebastian Kreutzer, IRAMAT-CRP2A, UMR 5060, CNRS - Université Bordeaux Montaigne (France)

---

module\_add\_HowToCite    *Add How to Cite Section*

---

**Description**

Adds a section 'How to Cite' to each manual page as long as author names and version numbers are given

**Usage**

```
module_add_HowToCite()
```

**Function version**

0.1.0

**How to cite**

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 0.1.0.9000-47. <https://CRAN.R-project.org/package=RLumBuild>

**Author(s)**

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

---

module\_add\_RLumTeam    *Module: add RLum-Team and update version timestamp*

---

**Description**

Module: add RLum-Team and update version timestamp

**Usage**

```
module_add_RLumTeam()
```

**Function version**

0.1.0

**How to cite**

Kreutzer, S. (2019). module\_add\_RLumTeam(): Module: add RLum-Team and update version timestamp. Function version 0.1.0. In: Kreutzer, S., Burow, C. (2019). RLumBuild: RLum Universe Package BuildingR package version 0.1.0.9000-47. <https://CRAN.R-project.org/package=RLumBuild>

**Author(s)**

Sebastian Kreutzer

---

module\_build\_documentation

*Module: Build Documentation*

---

**Description**

Module: Build Documentation

**Usage**

module\_build\_documentation()

---

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. (2019). module\_check\_ReverseDependencies(): Check Reverse Dependencies. Function version 0.1.0. In: Kreutzer, S., Burow, C. (2019). RLumBuild: RLum Universe Package BuildingR package version 0.1.0.9000-47. <https://CRAN.R-project.org/package=RLumBuild>

**Note**

Module currently not activated in automated build

**Author(s)**

Sebastian Kreutzer, IRAMAT-CRP2A, UMR 5060, CNRS - Université Bordeaux Montaigne (France)

---

`module_compile_Attributes`*Module: Compile attributes*

---

**Description**

Module: Compile attributes

**Usage**

```
module_compile_Attributes()
```

---

`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. (2019). `module_create_DependencyGraph()`: Create Dependency Graph. Function version 0.1.0. In: Kreutzer, S., Burow, C. (2019). *RLumBuild: RLum Universe Package Building* R package version 0.1.0.9000-47. <https://CRAN.R-project.org/package=RLumBuild>

**Note**

Module currently not activated

**Author(s)**

Sebastian Kreutzer, IRAMAT-CRP2A, UMR 5060, CNRS - Université Bordeaux Montaigne (France)

---

module_knit_NEWS	<i>Module: Knit NEWS</i>
------------------	--------------------------

---

**Description**

Module: Knit NEWS

**Usage**

module\_knit\_NEWS()

---

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

---

**Description**

Module: Knit README

**Usage**

module\_knit\_README()

---

module_register_EntryPoints	<i>Module: set_VersionNumber</i>
-----------------------------	----------------------------------

---

**Description**

Module: set\_VersionNumber

**Usage**

module\_register\_EntryPoints(pkg\_name)

**Arguments**

pkg\_name      [character](#) the name of the package

---

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

---

**Description**

Module: set\_VersionNumber

**Usage**

module\_set\_VersionNumber()

---

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. (2019). module\_verify\_ExampleTimings(): Verify Example Timings. Function version 0.1.0. In: Kreutzer, S., Burow, C. (2019). RLumBuild: RLum Universe Package BuildingR package version 0.1.0.9000-47. <https://CRAN.R-project.org/package=RLumBuild>

**Author(s)**

Sebastian Kreutzer, IRAMAT-CRP2A, UMR 5060, CNRS - Université Bordeaux Montaigne (France)

---

module\_write\_BibTeX    *Create Package BibTeX file*

---

**Description**

Create Package BibTeX file

**Usage**

```
module_write_BibTeX()
```

**Function version**

0.1.0

**How to cite**

Kreutzer, S. (2019). module\_write\_BibTeX(): Create Package BibTeX file. Function version 0.1.0. In: Kreutzer, S., Burow, C. (2019). RLumBuild: RLum Universe Package BuildingR package version 0.1.0.9000-47. <https://CRAN.R-project.org/package=RLumBuild>

**Author(s)**

Sebastian Kreutzer, IRAMAT-CRP2A, UMR 5060, CNRS - Université Bordeaux Montaigne (France)

---

`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. (2019). `module_write_FunctionList()`: Write Function Argument List. Function version 0.1.0. In: Kreutzer, S., Burow, C. (2019). *RLumBuild: RLum Universe Package BuildingR* package version 0.1.0.9000-47. <https://CRAN.R-project.org/package=RLumBuild>

**Author(s)**

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

Sebastian Kreutzer, IRAMAT-CRP2A, UMR 5060, CNRS - Université Bordeaux Montaigne (France)



# Index

## \*Topic **package**

RLumBuild-package, [2](#)

build\_package, [2](#)

character, [2](#), [6](#)

logical, [2](#)

module\_add\_HowToCite, [3](#)

module\_add\_RLumTeam, [3](#)

module\_build\_documentation, [4](#)

module\_check\_ReverseDependencies, [4](#)

module\_compile\_Attributes, [5](#)

module\_create\_DependencyGraph, [5](#)

module\_knit\_NEWS, [6](#)

module\_knit\_README, [6](#)

module\_register\_EntryPoints, [6](#)

module\_set\_VersionNumber, [6](#)

module\_verify\_ExampleTimings, [7](#)

module\_write\_BibTeX, [7](#)

module\_write\_FunctionList, [8](#)

RLumBuild (RLumBuild-package), [2](#)

RLumBuild-package, [2](#)