

# Package ‘RLumBuild’

May 3, 2019

**Type** Package

**Title** RLum Universe Package Building

**Version** 0.1.0.9000-116

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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

**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),  
pkgbuild (>= 1.0.3),  
xtable (>= 1.8-4)

**Encoding** UTF-8

**LazyData** true

**RoxygenNote** 6.1.1

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

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build_package	<i>Check and Build Package</i>
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**Description**

Check and Build Package

**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

**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 0.1.0.9000-116. <https://CRAN.R-project.org/package=RLumBuild>

**Author(s)**

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

**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 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 0.1.0.9000-116. <https://CRAN.R-project.org/package=RLumBuild>

**Author(s)**

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

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module_add_RLumTeam	<i>Module: add RLum-Team and update version timestamp</i>
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**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 0.1.0.9000-116. <https://CRAN.R-project.org/package=RLumBuild>

**Author(s)**

Sebastian Kreutzer

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module_build_documentation	<i>Module: Build Documentation</i>
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**Description**

Create documentation using roxygen2

**Usage**

```
module_build_documentation()
```

**Function version**

0.1.0

**How to cite**

Kreutzer, S. (2019). module\_build\_documentation(): Module: Build Documentation. Function version 0.1.0. In: Kreutzer, S., Burow, C. (2019). RLumBuild: RLum Universe Package BuildingR package version 0.1.0.9000-116. <https://CRAN.R-project.org/package=RLumBuild>

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

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module\_check\_ReverseDependencies  
*Check Reverse Dependencies*

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**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 0.1.0.9000-116. <https://CRAN.R-project.org/package=RLumBuild>

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

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module\_compile\_Attributes  
*Module: Compile attributes*

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**Description**

Module: Compile attributes

**Usage**

```
module_compile_Attributes()
```

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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 BuildingR package version 0.1.0.9000-116. <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)

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module\_knit\_NEWS            *Module: Knit NEWS*

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**Description**

Module: Knit NEWS

**Usage**

```
module_knit_NEWS()
```

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module_knit_README	<i>Module: Knit README</i>
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**Description**

Module: Knit README

**Usage**

module\_knit\_README()

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module_register_EntryPoints	<i>Module: set_VersionNumber</i>
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**Description**

Register C/C++ entry points as required by CRAN

**Usage**

module\_register\_EntryPoints()

**Function version**

0.1.0

**How to cite**

Kreutzer, S. (2019). module\_register\_EntryPoints(): Module: set\_VersionNumber. Function version 0.1.0. In: Kreutzer, S., Burow, C. (2019). RLumBuild: RLum Universe Package BuildingR package version 0.1.0.9000-116. <https://CRAN.R-project.org/package=RLumBuild>

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module_set_VersionNumber	<i>Module: set_VersionNumber</i>
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**Description**

Module: set\_VersionNumber

**Usage**

module\_set\_VersionNumber()

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module\_verify\_ExampleTimings  
*Verify Example Timings*

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**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 0.1.0.9000-116. <https://CRAN.R-project.org/package=RLumBuild>

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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 0.1.0.9000-116. <https://CRAN.R-project.org/package=RLumBuild>

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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. (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 0.1.0.9000-116. <https://CRAN.R-project.org/package=RLumBuild>

**Author(s)**

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