

# Package: cranlike (via r-universe)

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**Title** Tools for 'CRAN'-Like Repositories

**Version** 1.0.3.9000

**Author** Gábor Csárdi

**Maintainer** Gábor Csárdi <csardi.gabor@gmail.com>

**Description** A set of functions to manage 'CRAN'-like repositories efficiently.

**License** GPL (>= 2)

**URL** <https://github.com/r-hub/cranlike>

**BugReports** <https://github.com/r-hub/cranlike/issues>

**Roxygen** list(markdown = TRUE)

**RoxygenNote** 7.3.1

**Imports** DBI, debugme, desc (>= 1.1.0), RSQLite, tools, utils

**Suggests** covr, mockery, testthat, withr, zip

**Encoding** UTF-8

**Repository** <https://r-hub.r-universe.dev>

**RemoteUrl** <https://github.com/r-hub/cranlike>

**RemoteRef** HEAD

**RemoteSha** bc6476dfd230ee8b10187484dcc331a88e5894b8

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|              |   |
|--------------|---|
| add_PACKAGES | <i>Add R packages to the package database</i> |
|--------------|---|

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### Description

The files must exist in the directory. If the package database does not exist, then it will be created.

### Usage

```
add_PACKAGES(files, dir = ".", fields = NULL, xcolumns = NULL)
```

### Arguments

|          |  |
|----------|--|
| files    | Files to add, only the file names, without the path. You can use <code>base::basename()</code> to chop off the path.   |
| dir      | Package directory.   |
| fields   | Fields to use in the database if the database is created.  |
| xcolumns | Extra scalar columns to add to the database. Should be a named list of character scalars or NULL for no extra columns. |

### See Also

Other PACKAGES manipulation: [remove\\_PACKAGES\(\)](#), [update\\_PACKAGES\(\)](#)

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|          |   |
|----------|---|
| cranlike | <i>Tools for CRAN-like Repositories</i> |
|----------|---|

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### Description

A set of functions to manage CRAN-like repositories efficiently.

### See Also

Useful links:

- <https://github.com/r-hub/cranlike>
- Report bugs at <https://github.com/r-hub/cranlike/issues>

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create\_empty\_PACKAGES *Create an empty package database*

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### Description

Create an empty package database if it does not exist. It also updates the PACKAGES\* files from the new (empty) database.

### Usage

```
create_empty_PACKAGES(dir = ".", fields = NULL, xcolumns = NULL)
```

### Arguments

|          |  |
|----------|--|
| dir      | Character vector describing the location of the repository (directory including source or binary packages) to generate the 'PACKAGES', 'PACKAGES.gz' and 'PACKAGES.rds' files from and write them to.  |
| fields   | a character vector giving the fields to be used in the 'PACKAGES', 'PACKAGES.gz' and 'PACKAGES.rds' files in addition to the default ones, or NULL (default).<br>The default corresponds to the fields needed by <a href="#">available.packages</a> : "Package", "Version", "Priority", "Depends", "Imports", "LinkingTo", "Suggests", "Enhances", "OS_type", "License" and "Archs", and those fields will always be included, plus the file name in field "File" if addFile = TRUE and the path to the subdirectory in field "Path" if subdirectories are used. |
| xcolumns | Extra scalar columns to add to the database. Should be a named list of character scalars or NULL for no extra columns.   |

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package\_versions *List all packages and versions in a CRAN-like repository*

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### Description

List all packages and versions in a CRAN-like repository

### Usage

```
package_versions(dir = ".", xcolumns = character())
```

### Arguments

|          |   |
|----------|---|
| dir      | Path to the repository.                 |
| xcolumns | Extra columns to include in the result. |

### Value

Data frame with at least three columns: Package, Version, MD5sum.

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|                 |   |
|-----------------|---|
| remove_PACKAGES | <i>Remove package from a package database</i> |
|-----------------|---|

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**Description**

The files will be first removed from the database, and then from the directory.

**Usage**

```
remove_PACKAGES(files, dir = ".")
```

**Arguments**

|       |   |
|-------|---|
| files | Files to remove. They must still exist at the time this function is called. |
| dir   | Package directory.  |

**See Also**

Other PACKAGES manipulation: [add\\_PACKAGES\(\)](#), [update\\_PACKAGES\(\)](#)

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|                 |  |
|-----------------|--|
| update_PACKAGES | <i>Create or update PACKAGES* files for a CRAN-like repository</i> |
|-----------------|--|

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**Description**

This function is similar to [tools::write\\_PACKAGES\(\)](#), with some differences:

- It always uses the MD5sum field.
- It defaults to addFiles = TRUE, to allow following the package files better.
- It does not support the verbose, unpacked, and subdirs arguments currently.
- It uses a database to speed up the indexing process, and only reindexes files that have added, removed or updated.

**Usage**

```
update_PACKAGES(  
  dir = ".",  
  fields = NULL,  
  type = c("source", "mac.binary", "win.binary"),  
  xcolumns = NULL  
)
```

**Arguments**

|          |  |
|----------|--|
| dir      | Character vector describing the location of the repository (directory including source or binary packages) to generate the 'PACKAGES', 'PACKAGES.gz' and 'PACKAGES.rds' files from and write them to.  |
| fields   | a character vector giving the fields to be used in the 'PACKAGES', 'PACKAGES.gz' and 'PACKAGES.rds' files in addition to the default ones, or NULL (default).<br>The default corresponds to the fields needed by <a href="#">available.packages</a> : "Package", "Version", "Priority", "Depends", "Imports", "LinkingTo", "Suggests", "Enhances", "OS_type", "License" and "Archs", and those fields will always be included, plus the file name in field "File" if addFile = TRUE and the path to the subdirectory in field "Path" if subdirectories are used. |
| type     | Type of packages: currently source '.tar.{gz,bz2,xz}' archives, and macOS or Windows binary ('.tgz' or '.zip', respectively) packages are supported. Defaults to "win.binary" on Windows and to "source" otherwise.  |
| xcolumns | Extra scalar columns to add to the database. Should be a named list of character scalars or NULL for no extra columns.   |

**Details**

update\_PACKAGES uses a SQLite database to aid updating PACKAGES\* files quickly. If this database does not exist, then it will be created based on the existing PACKAGES\* files. If no PACKAGES\* files exist, either, then these will be created via `tools::write_PACKAGES()`.

**See Also**

Other PACKAGES manipulation: [add\\_PACKAGES\(\)](#), [remove\\_PACKAGES\(\)](#)

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