

Package ‘cranlike’

July 22, 2025

Title Tools for 'CRAN'-Like Repositories

Version 1.0.3

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>

RoxygenNote 7.3.1

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

Suggests covr, mockery, testthat, withr, zip

Encoding UTF-8

NeedsCompilation no

Repository CRAN

Date/Publication 2024-04-24 21:00:02 UTC

Contents

| | |
|---------------------------------|---|
| add_PACKAGES | 2 |
| cranlike | 2 |
| create_empty_PACKAGES | 3 |
| package_versions | 3 |
| remove_PACKAGES | 4 |
| update_PACKAGES | 4 |

| | |
|--------------|----------|
| Index | 6 |
|--------------|----------|

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

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\(\)](#)

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

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>

create_empty_PACKAGES *Create an empty package database*

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). The default corresponds to the fields needed by available.packages : "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. |

package_versions *List all packages and versions in a CRAN-like repository*

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.

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

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\(\)](#)

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

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 | <p>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).</p> <p>The default corresponds to the fields needed by available.packages: "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.</p> |
| 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\(\)](#)

Index

* **PACKAGES** manipulation

add_PACKAGES, [2](#)

remove_PACKAGES, [4](#)

update_PACKAGES, [4](#)

add_PACKAGES, [2](#), [4](#), [5](#)

available.packages, [3](#), [5](#)

base::basename(), [2](#)

cranlike, [2](#)

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

create_empty_PACKAGES, [3](#)

package_versions, [3](#)

remove_PACKAGES, [2](#), [4](#), [5](#)

tools::write_PACKAGES(), [4](#)

update_PACKAGES, [2](#), [4](#), [4](#)