Package 'cranlike'

November 26, 2018

Title Tools for 'CRAN'-Like Repositories

Version 1.0.2

Author Gábor Csárdi

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

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

License GPL (>= 2)

LazyData true

URL https://github.com/r-hub/cranlike

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

RoxygenNote 6.0.1.9000

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 2018-11-26 10:10:03 UTC

R topics documented:

add_PACKAGES	*Add R packages to the package database*

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)
```

Arguments

files	Files to add, only the file names, without the path. You can use `base::basename()` to chop off the path.
dir	Package directory.
fields	Fields to use in the database if the database is created.

See Also

Other PACKAGES manipulation: `remove_PACKAGES`, `update_PACKAGES`

cranlike	*Tools for CRAN-like Repositories*

Description

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

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)
```

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.

---

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   *Remove package from a package database*

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	*Create or update PACKAGES* files for a CRAN-like repository*

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"))
```

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.
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.

Details

update_PACKAGES uses a SQLite database to aid updating PACKAGES* files quickly. It 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