

Package ‘dnlddep’

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Type Package

Title An R package to recursively query and download all the dependencies of an R package

Version 0.1.0

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Description This function includes 3 functions. `pkg_dep1` aims to query all the dependencies of an R package as a vector; `pkg_dep_all` aims to recursively query all the dependencies, dependencies of the dependencies, and so on of an R package as a vector with unique elements; `download_dep` aims to download all the required packages to a specified local directory.

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Encoding UTF-8

LazyData true

RoxygenNote 7.1.2

R topics documented:

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<code>download_dep</code>	<i>To download all the required packages to a specified local directory</i>
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Description

This function aims to download all the required packages to a specified local directory.

Usage

```
download_dep(  
  x,  
  destination_dir = "./",  
  server_link = "http://cran.rstudio.com/"  
)
```

Arguments

`x` A vector of the package names to be downloaded.

`destination_dir` Destination directory for the packages to be downloaded. The default is the current working directory.

`server_link` The link of the server to download the packages from. The default is the official CRAN website (<http://cran.rstudio.com/>).

Value

.tar.gz: All the R packages to be downloaded with the format of .tar.gz

Author(s)

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Examples

```
# download the dependencies, and all the dependencies of the dependencies, and so on of the package "cli".
package_vec = pkg_dep_all('cli')
# Depth: 1
# Depth: 2

package_vec
# [1] "cli"      "glue"     "utils"    "methods"
download_dep(package_vec)
```

pkg_dep1

To query all the dependencies of an R package as a vector.

Description

This function query all the dependencies of an R package.

Usage

```
pkg_dep1(x)
```

Arguments

`x` A character string of the name of an R package.

Value

a vector: a unique vector of the dependencies of an R package.

Note

It only delve into one sub-level of the dependencies of an R package.

Author(s)

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Examples

```
# query the dependencies of the package "cli"
pkg_dep1('cli')
# [1] "glue" "utils"
```

pkg_dep_all

To recursively query all the dependencies, dependencies of the dependencies, and so on of an R package as a vector with unique elements.

Description

This function recursively query all the dependencies, dependencies of the dependencies, and so on of an R package.

Usage

```
pkg_dep_all(x)
```

Arguments

x A character string of the name of an R package.

Value

a vector: a unique vector of all the dependencies, dependencies of the dependencies, and so on of

Note

This function queries into all sub-levels of the dependencies, dependencies of the dependencies, and so on of an R package. The accompanying messages shows the progress (the depth of the query) of the query process.

Author(s)

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References

None.

Examples

```
# query the dependencies, and all the dependencies of the dependencies, and so on of the package "cli".
pkg_dep_all('cli')
# Depth: 1
# Depth: 2
# [1] "cli"      "glue"     "utils"    "methods"
```

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