

Package ‘packageRank’

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Type Package

Title Computation and Visualization of Package Download Counts and Percentiles

Version 0.2.0

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Description Compute and visualize the cross-sectional and longitudinal number and rank percentile of package downloads from RStudio's CRAN mirror.

URL <https://github.com/lindbrook/packageRank>

BugReports <https://github.com/lindbrook/packageRank/issues>

Depends R (>= 3.4)

License GPL (>= 2)

Encoding UTF-8

Language en-US

LazyData true

RoxygenNote 6.1.1

Imports cranlogs, data.table (>= 1.12.2), ggplot2, memoise, RCurl

Suggests knitr, rmarkdown

VignetteBuilder knitr

NeedsCompilation no

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cran_downloads2	<i>Daily package downloads from the RStudio CRAN mirror.</i>
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Description

S3 implementation of `cranlogs::cran_downloads()`.

Usage

```
cran_downloads2(packages = NULL, when = c("last-day", "last-week",
    "last-month"), from = "last-day", to = "last-day")
```

Arguments

packages	A character vector, the packages to query, or NULL for a sum of downloads for all packages. Alternatively, it can also be "R", to query downloads of R itself. "R" cannot be mixed with packages.
when	last-day, last-week or last-month. If this is given, then from and to are ignored.
from	Start date, in yyyy-mm-dd format, or last-day. It is ignored if when is given.
to	End date, in yyyy-mm-dd format, or last-day. It is ignored if when is given.

Examples

```
cran_downloads2(packages = "HistData", from = "2019-01-01", to = "2019-01-01")
cran_downloads2(packages = c("Rcpp", "rlang"), when = "last-week")
```

fetchLog	<i>Fetch Package Logs.</i>
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Description

Fetch Package Logs.

Usage

```
fetchLog(x)
```

Arguments

x Character. URL

Note

mFetchLog() is memoized version.

packageRank	<i>Package download counts and rank percentiles (cross-sectional).</i>
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Description

From RStudio's CRAN Mirror <http://cran-logs.rstudio.com/>

Usage

```
packageRank(packages = "HistData", date = Sys.Date() - 1,  
            memoization = TRUE)
```

Arguments

packages Character. Vector of package name(s).
date Character. Date.
memoization Logical. Use memoization when downloading logs.

Value

An R data frame.

Examples

```
packageRank(packages = "HistData", date = "2019-01-01")  
packageRank(packages = c("h2o", "Rcpp", "rstan"), date = "2019-01-01")
```

packageRankTime	<i>Package download counts and rank percentiles (longitudinal).</i>
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Description

Temporal pattern over last week or month.

Usage

```
packageRankTime(packages = "HistData", when = "last-month",
  sample.pct = 5, multi.core = TRUE)
```

Arguments

packages	Character. Character. Vector of package name(s).
when	Character. "last-month" or "last-week".
sample.pct	Numeric. Percent of packages to sample.
multi.core	Logical or Numeric. TRUE uses <code>parallel::detectCores()</code> . FALSE uses one, single core. You can also specify the number logical cores to use. Note that due to performance considerations, the number of cores defaults to one on Windows.

Note

Most useful with `plot()` method.

Examples

```
plot(packageRankTime(packages = "HistData", when = "last-week"))
plot(packageRankTime(packages = c("Rcpp", "rlang", "data.table"), when = "last-month"))
```

plot.cranlogs	<i>Plot method for cran_downloads2().</i>
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Description

Plot method for `cran_downloads2()`.

Usage

```
## S3 method for class 'cranlogs'
plot(x, graphics = NULL, points = TRUE,
  log_count = FALSE, smooth = FALSE, se = FALSE, f = 1/3, ...)
```

Arguments

x	object.
graphics	Character. NULL, "base" or "ggplot2".
points	Logical. Plot points.
log_count	Logical. Logarithm of package downloads.
smooth	Logical. Add smoother.
se	Logical. Works only with graphics = "ggplot2".
f	Numeric. stats::lowess() smoother window. For use with graphics = "base" only.
...	Additional plotting parameters.

Value

A base R or ggplot2 plot.

Examples

```
plot(cran_downloads2/packages = c("Rcpp", "r1ang", "data.table"), from = "2019-05-01",
     to = "2019-05-01")
plot(cran_downloads2/packages = c("Rcpp", "r1ang", "data.table"), when = "last-month")
```

plot.package_rank *Plot method for packageRank().*

Description

Plot method for packageRank().

Usage

```
## S3 method for class 'package_rank'
plot(x, graphics = NULL, log_count = TRUE, ...)
```

Arguments

x	An object of class "package_rank" created by packageRank().
graphics	Character. "base" or "ggplot2".
log_count	Logical. Logarithm of package downloads.
...	Additional plotting parameters.

Value

A base R or ggplot2 plot.

Examples

```
plot(packageRank(packages = "HistData", date = "2019-01-01"))
plot(packageRank(packages = c("h2o", "Rcpp", "rstan"), date = "2019-01-01"))
```

```
plot.package_rank_time
```

Plot method for timeSeriesRank().

Description

Plot method for timeSeriesRank().

Usage

```
## S3 method for class 'package_rank_time'
plot(x, graphics = NULL, log_count = TRUE,
     smooth = TRUE, sample_smooth = TRUE, f = 1/3, ...)
```

Arguments

x	Object. An object of class "time_series" created by packageRankTime().
graphics	Character. "base" or "ggplot2".
log_count	Logical. Logarithm of package downloads.
smooth	Logical. Add smoother for selected package.
sample_smooth	Logical. lowess background.
f	Numeric. stats::lowess() smoother window. For use with graphics = "base" only.
...	Additional plotting parameters.

Value

A base R or ggplot2 plot.

Examples

```
plot(packageRankTime(packages = "HistData", when = "last-week"))
plot(packageRankTime(packages = c("Rcpp", "rlang", "data.table"), when = "last-month"))
```

print.cranlogs	<i>Print method for packageRank().</i>
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Description

Print method for packageRank().

Usage

```
## S3 method for class 'cranlogs'  
print(x, ...)
```

Arguments

x	object.
...	Additional parameters.

print.package_rank	<i>Print method for packageRank().</i>
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Description

Print method for packageRank().

Usage

```
## S3 method for class 'package_rank'  
print(x, ...)
```

Arguments

x	An object of class "package_rank" created by packageRank()
...	Additional parameters.

print.package_rank_time

Print method for timeSeriesRank().

Description

Print method for timeSeriesRank().

Usage

```
## S3 method for class 'package_rank_time'  
print(x, ...)
```

Arguments

x An object of class "time_series" created by packageRankTime().
... Additional parameters.

summary.cranlogs

Summary method for packageRank().

Description

Summary method for packageRank().

Usage

```
## S3 method for class 'cranlogs'  
summary(object, ...)
```

Arguments

object Object.
... Additional parameters.

Note

This is useful for directly accessing the data frame.

summary.package_rank *Summary method for packageRank().*

Description

Summary method for packageRank().

Usage

```
## S3 method for class 'package_rank'  
summary(object, ...)
```

Arguments

object Object. An object of class "package_rank" created by packageRank()
... Additional parameters.

Note

This is useful for directly accessing the data frame.

summary.package_rank_time
Summary method for timeSeriesRank().

Description

Summary method for timeSeriesRank().

Usage

```
## S3 method for class 'package_rank_time'  
summary(object, ...)
```

Arguments

object Object. An object of class "time_series" created by packageRankTime().
... Additional parameters.

Note

This is useful for directly accessing the data frame.

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