## Package: easypackages (via r-universe)

September 6, 2024

Title Easy Loading and Installing of Packages

Version 0.1.0

**Description** Easily load and install multiple packages from different sources, including CRAN and GitHub. The libraries function allows you to load or attach multiple packages in the same function call. The packages function will load one or more packages, and install any packages that are not installed on your system (after prompting you). Also included is a from\_import function that allows you to import specific functions from a package into the global environment.

**Depends** R (>= 3.0.0)

Imports assertthat, devtools, utils

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LazyData true

RoxygenNote 5.0.1

Suggests knitr, rmarkdown

VignetteBuilder knitr

Repository https://jakesherman.r-universe.dev

RemoteUrl https://github.com/jakesherman/easypackages

RemoteRef HEAD

RemoteSha e22ee20bf2cbdc655f0852b90b33b9b00abb065c

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from\_import

from\_import()

#### Description

Imports one or more functions from a package into the parent environment, overwriting any existing objects in the parent environment sharing the name of the function(s). The package is loaded but not attached to the search list. Inspired by Python.

## Usage

from\_import(package, ..., verbose = TRUE)

## Arguments

package	the package name (length one character vector)
	one or more function names (as-is, or as a list)
verbose	give a warning when overwriting existing objects? TRUE by default.

## Examples

```
## Not run:
from_import("dplyr", "select", "filter")
from_import("dplyr", list("select", "filter"))
```

## End(Not run)

install\_package install\_package() Function to install a package given a package object

## Description

install\_package() Function to install a package given a package object

## Usage

install\_package(pack)

#### Arguments

pack a package\_obj object

## 7

install\_packages install\_packages()

#### Description

Installs one or more packages. Similar to utils::install.packages, but you may supply either package names and package\_obj objects to this function. You can install Github packages by supplying username/repo to this function, or username\$repo for Bitbucket packages.

#### Usage

```
install_packages(...)
```

## Arguments

. . .

one or more package names or package\_obj objects

## Details

package\_obj allows you to supply it an install function if the package isn't on CRAN or in a public GitHub or Bitbucket repo.

#### Examples

```
## Not run:
install_packages("dplyr", "ggplot2", "rvest", "magrittr")
```

## End(Not run)

is.package\_obj is.package\_obj() Returns TRUE if obj is a package\_obj object

## Description

is.package\_obj() Returns TRUE if obj is a package\_obj object

## Usage

is.package\_obj(obj)

#### Arguments

obj an R object

libraries

#### Description

A vectorized version of the library function that accepts one or more package names to call library on. Unlike library, the libraries function does not use non-standard evaluation (NSE) on its inputs, meaning that you must supply your package names as strings, or as variables.

#### Usage

libraries(...)

#### Arguments

. . .

one or more package names or package\_obj objects

#### Details

You may supply either package names and package\_obj objects to this function. You may also add :: to the end of a package name to load the package instead of attaching the package (this means that the package will not be added to the search list, but will be available to access via the :: operator).

## Examples

```
## Not run:
libraries("dplyr", "ggplot2", "rvest", "magrittr")
libraries("dplyr::", "Rdatatable/data.table")
```

## End(Not run)

load\_package load\_package() Function to load a package given a package object

#### Description

load\_package() Function to load a package given a package object

#### Usage

```
load_package(pack)
```

#### Arguments

pack a package\_obj object

package

package()

## Description

A package object that contains at minimum the name of a package. If the package exists on CRAN, the name of the package is used to install that package from CRAN. A forward slash may be used in the package name to indicate a GitHub username and repo that a package is located in. A dollar sign may be used in the package name to indicate a Bitbucket username and repo that a package is located in.

## Usage

```
package(name, install = utils::install.packages, ..., load_type = "attach")
```

## Arguments

name	the name of a package, or, if the package is on Github, the username and repo of the package, ex. Rdatatable/data.table, where Rdatatable is the GitHub user- name, and data.table is the repo name. The same process works with Bitbucket, except \$ is used instead of / to separate the username and repo.
install	(optional) a function used to install a package.
	(optional) additional arguments to the install function. Another way of supplying additonal parameters to install is to use the purr::partial function.
load_type	(default is "attach") should the package be loaded, or attached? See http://r-pkgs.had.co.nz/namespace.html to learn more.

## Details

If a package is not inteded to be installed from CRAN, Github (public), or Bitbucket (public) you may optionally supply a function to the install argument that installs the package, with additional arguments to the function supplied via the ... argument.

## Examples

```
## Not run:
this_package <- package("dplyr")
github_package <- package("Rdatatable/data.table")
that_package <- package("jakePackage", devtools::install_bitbucket,
repo = "repo", username = "user", password = "password")
```

## End(Not run)

packages

#### Description

Loads one or more packages, and installs them after a user prompt if they are not already installed. You may supply either package names or package\_obj objects to this function. You can install Github packages by supplying username/repo to this function, or username\$repo for Bitbucket packages.

## Usage

packages(..., prompt = TRUE)

#### Arguments

•••	one or more package names or package_obj objects
	(default is TRUE) prompt the user before installing packages? For interactive use keeping the default makes the most sense. For interactive scripts, or scripts that you are sharing with those you trust, it may make more sense to switch this to FALSE.

## Details

package\_obj allows you to supply it an install function if the package isn't on CRAN or in a public GitHub or Bitbucket repo.

You may also add :: to the end of a package name to load the package instead of attaching the package (this means that the package will not be added to the search list, but will be available to access via the :: operator).

## Examples

```
## Not run:
packages("dplyr", "ggplot2", "rvest", "magrittr")
packages("dplyr::", "Rdatatable/data.table")
```

## End(Not run)

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