Package ‘pkgdepR’

October 14, 2022

Type     Package
Title    Statically Determine Function Dependencies Between Packages
Version  1.0.0
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Description  Statically determine and visualize the function dependencies within and across packages. This may be useful for managing function dependencies across a code base of multiple R packages.
License   MIT + file LICENSE
URL      https://pkgdepR.org/
BugReports https://github.com/edpeyton/pkgdepR/issues
Encoding UTF-8
RoxygenNote 7.1.1
Imports  visNetwork, dplyr, magrittr, viridisLite, scales, utils
NeedsCompilation no
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Repository CRAN
Date/Publication 2022-02-16 08:10:02 UTC

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all_info_ns  
Get all information on a namespace

Description
Get all information on a namespace

Usage
all_info_ns(ns)

Arguments
ns  
A character representing the namespace to explore.

Value
A named list.

deps  
Get environment dependency object

Description
This function creates an object of class pkgdepR, representing the network of function calls between one or more packages.

Usage
deps(pkg, exported_only = FALSE)

Arguments
pkg  
A character vector of the environments to explore. Should be on the search path. Cannot be base.
exported_only  
Boolean. Whether to include non-exported functions.

Details
An object of class pkgdepR is a list with three named objects:

- `funs`: a data frame describing the functions. Contains columns id, label, package, exported, group, and name.
- `links`: a data frame containing the linkages between functions. Contains columns from and to.
- `pkg`: a character vector containing the packages explored.
Value

An object of class pkgdepR.

Examples

```r
library(pkgdepR)
deps(pkg = "pkgdepR")
```

---

### get_functions

*Get functions from namespace*

#### Description

Get functions from namespace

#### Usage

```r
get_functions(ns)
```

#### Arguments

- `ns` A character representing the namespace to explore.

#### Value

A character vector of function names.

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### is.pkgdepR

*pkgdepR object*

#### Description

An internal generic function. Methods for `is.pkgdepR` should only return TRUE if the class is `pkgdepR`.

#### Usage

```r
is.pkgdepR(x)
```

#### Arguments

- `x` Object to be tested.

#### Value

Boolean. TRUE when `x` is of class `pkgdepR`. 
ls_namespace_info  Get namespace information

Description

Get namespace information

Usage

ls_namespace_info(ns, ...)

Arguments

ns  A character representing the namespace to explore.

...  Other arguments passed to ls.

Value

A character vector of the names to search for a given namespace.

plot.pkgdepR  Visualizing package dependencies

Description

This function is a simple wrapper for plotting a network visualization using visNetwork.

Usage

## S3 method for class ‘pkgdepR’
plot(
  x,
  width = NULL,
  height = NULL,
  main = NULL,
  submain = NULL,
  alpha = 0.8,
  ...
)

print.pkgdepR

Arguments

x An object of class pkgdepR.
width The width of the vis.js render.
height The height of the vis.js render.
main The title. To remove the title, pass list(text = NULL).
submain The subtitle. To remove the subtitle, pass list(text = NULL).
alpha A transparency value to use for colors. Must be between 0 and 1.
... Other arguments passed onto visNetwork and viridis.

Value

An object of classes visNetwork and htmlwidget.

Examples

library(pkgdepR)
deps(pkg = "pkgdepR") %>% plot(option = "E", direction = -1)
deps(pkg = "pkgdepR") %>% plot(option = "D", alpha = 0.5, main = list(text = NULL))
deps(pkg = "pkgdepR") %>%
  plot(option = "D", alpha = 0.8, main = list(text = NULL)) %>%
  visNetwork::visInteraction(dragNodes = FALSE)
summarize.pkgdepR

Summarise pkgdepR object

Description
Summarise pkgdepR object

Usage
## S3 method for class 'pkgdepR'
summary(object, ...)

Arguments

object  An object of class pkgdepR.
...
Redundant argument for consistency with method.

Value
No return value.

%>%

Imported magrittr forward-pipe operator

Description
Imported from magrittr.
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