Package 'pkgdepR'

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.

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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

R topics documented:

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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.

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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

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

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get_functions	*Get functions from namespace*

Description

Get functions from namespace

Usage

```
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

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

Arguments

x   Object to be tested.

Value

Boolean. `TRUE` when `x` is of class `pkgdepR`.

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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.

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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,
  ...
)
```

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)
```

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print.pkgdepR	*Print pkgdepR object*

Description

Print pkgdepR object

Usage

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

Arguments

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

Value

No return value.

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summary.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.

Index