

Package: pkgdepR (via r-universe)

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Type Package

Title Statically Determine Function Dependencies Between Packages

Version 1.1.1

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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 7.3.2

Imports visNetwork, dplyr, magrittr, viridisLite, scales, utils, crayon, cli

Config/pak/sysreqs cmake make libuv1-dev

Repository <https://edpeyton.r-universe.dev>

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%>%	Imported magrittr forward-pipe operator
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Description

Imported from [magrittr](#).

all_info_ns	Get all information on a namespace
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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	<i>Get environment dependency object</i>
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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

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

Details

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

`funcs` 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")
```

get_functions	<i>Get functions from namespace</i>
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Description

Get functions from namespace

Usage

```
get_functions(ns)
```

Arguments

ns	A character representing the namespace to explore.
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Value

A character vector of function names.

is.pkgdepR	<i>pkgdepR object</i>
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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.
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Value

Boolean. TRUE when x is of class pkgdepR.

ls_namespace_info	<i>Get namespace information</i>
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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	<i>Visualizing package dependencies</i>
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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,
  footer = NULL,
  background = "rgba(0, 0, 0, 0)",
  n,
  m,
  ...
)
```

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 <code>list(text = NULL)</code> .
submain	The subtitle. To remove the subtitle, pass <code>list(text = NULL)</code> .
alpha	A transparency value to use for colors. Must be between 0 and 1.
footer	A character or a named list. See visNetwork .
background	A background color. See visNetwork .
n	(Optional) The number of colours to request from viridis . Allows the user to set a more granular palette.
m	(Optional) The subset of colours of the custom palette (specified by n) to use in the plot.
...	Other arguments passed onto 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)
```

print.pkgdepR	<i>Print pkgdepR object</i>
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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.

summary.pkgdepR	<i>Summarise a 'pkgdepR' object</i>
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Description

Summarise a '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.

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