

Package ‘pkgdepR’

May 9, 2026

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

NeedsCompilation no

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Repository CRAN

Date/Publication 2024-11-19 07:50:02 UTC

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all_info_ns	<i>Get all information on a namespace</i>
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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

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:

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.

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.

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,  
  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          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.

summary.pkgdepR	<i>Summarise pkgdepR object</i>
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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.

%>%	<i>Imported magrittr forward-pipe operator</i>
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Description

Imported from [magrittr](#).

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