# Package 'pkgdepR'

November 19, 2024

Type Package	
Title Statically Determine Function Dependencies Between Packages	
Version 1.1.1	
Maintainer Ed Peyton <edppeyton@gmail.com></edppeyton@gmail.com>	
<b>Description</b> 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 7.3.2	
Imports visNetwork, dplyr, magrittr, viridisLite, scales, utils	
NeedsCompilation no	
Author Ed Peyton [aut, cre] ( <a href="https://orcid.org/0000-0002-1427-0306">https://orcid.org/0000-0002-1427-0306</a> )	
Repository CRAN	
<b>Date/Publication</b> 2024-11-19 07:50:02 UTC	
Contents	
all_info_ns	2
deps	2
get_functions	3
ls_namespace_info	4
plot.pkgdepR	4
print.pkgdepR	5
summary.pkgdepR	6
70>70	•
Index	7

2 deps

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.

get\_functions 3

#### Value

An object of class pkgdepR.

# **Examples**

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

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.

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**

Х

Object to be tested.

#### Value

Boolean. TRUE when x is of class pkgdepR.

4 plot.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,
    ...
)
```

print.pkgdepR 5

### **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.
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.

6 %>%

# Value

No return value.

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**

```
%>%,6
all_info_ns,2
deps,2
get_functions,3
is.pkgdepR,3
ls,4
ls_namespace_info,4
magrittr,6
plot.pkgdepR,4
print.pkgdepR,5
search,2
summary.pkgdepR,6
viridis,5
visNetwork,4,5
```