

# Package ‘pkgdepR’

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**Type** Package

**Title** Statically Determine Function Dependencies Between Packages

**Version** 1.1.1

**Maintainer** Ed Peyton <edpeyton@gmail.com>

**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** 7.3.2

**Imports** visNetwork, dplyr, magrittr, viridisLite, scales, utils

**NeedsCompilation** no

**Author** Ed Peyton [aut, cre] (ORCID: <<https://orcid.org/0000-0002-1427-0306>>)

**Repository** CRAN

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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.

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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")
```

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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.

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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*

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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.

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plot.pkgdepR            *Visualizing package dependencies*

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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 <a href="#">visNetwork</a> .
background	A background color. See <a href="#">visNetwork</a> .
n	(Optional) The number of colours to request from <a href="#">viridis</a> . 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 <a href="#">viridis</a> .

**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	<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.

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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.

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

Imported from [magrittr](#).

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