Package 'grapes'

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Title Make Binary Operators

Version 1.0.0

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Description Turn arbitrary functions into binary operators.

License GPL (>= 3)

Depends R (>= 3.0.0)

Imports magrittr

Suggests knitr, rmarkdown, testthat

VignetteBuilder knitr

URL https://github.com/wlandau/grapes

BugReports https://github.com/wlandau/grapes/issues

Encoding UTF-8

RoxygenNote 5.0.1

NeedsCompilation no

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R topics documented:

bunch *Function* bunch

Description

List the available operators in a package or environment. The environment defaults to your workspace.

Usage

```
bunch(from = parent.frame())
```

Arguments

from	package (character scalar) or environment to look for operators

Value

character vector of all the available operators in an environemnt

Examples

```
grow(rbind, from = "base")
bunch() # has "%rbind%"
myfun = function(x, y) x + y
env = new.env()
grow(myfun, to = env)
bunch() # has "%rbind%"
bunch(from = env) # "%myfun%"
```

functions *Function* functions

Description

List the available functions in a package or environment that are not already binary ooperators.

Usage

```
functions(from = parent.frame())
```

Arguments

from	package (character scalar) or environment to look for functions

Value

character vector of the names of available functions in from

Examples

```
functions()
myfun = function(x, y) x + y
functions()
functions("grapes")
functions("knitr")
```

`grow` *Function* `grow`

Description

Turn a collection of functions into binary operators. For example, create the binary operator `%cbind%` from the function `cbind()` by calling `grow(cbind)`. Then, you can call `sleep %cbind% sleep %cbind% sleep` to add to the columns of a data frame while avoiding cumbersome parentheses.

Usage

```
grow(..., list = character(0), from = parent.frame(), to = parent.frame())
```

Arguments

`...`	characters or symbols, names of functions to make into binary operators.
`list`	character vector of names of functions to make into binary operators
`from`	package (character scalar) or environment to look for functions to turn into binary operators.
`to`	environment to store the new binary operators.

Examples

```
grow(rbind, from = "base") # Use `from` to specify a package or environment to search.
nrow(sleep) # 20
longer = sleep %rbind% sleep %rbind% sleep # No clumsy parentheses!
nrow(longer) # 60. Most of us would like to sleep longer.
```

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