Package ‘backpipe’

June 26, 2018

Type Package

Title Backward Pipe (Right-to-Left) Operator

Version 0.2.3

Date 2018-06-25

Description Provides a backward-pipe operator for ‘magrittr’ (%<%) or ‘pipeR’ (%<<%) that allows for a performing operations from right-to-left. This allows writing more legible code where right-to-left ordering is natural. This is common with hierarchies and nested structures such as trees, directories or markup languages (e.g. HTML and XML). The package also includes a R-Studio add-in that can be bound to a keyboard shortcut.

Depends R (>= 3.1.0)

Suggests magrittr (>= 1.5), pipeR (>= 0.6.0.6), R6 (>= 2.1.1), testthat (>= 1.0.0), shiny (>= 0.12.1), knitr (>= 1.11), rstudioapi (>= 0.7), rmarkdown

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URL https://github.com/decisionpatterns/backpipe

BugReports https://github.com/decisionpatterns/backpipe/issues

RoxygenNote 6.0.1.9000

Encoding UTF-8

VignetteBuilder knitr

Repository CRAN

NeedsCompilation no

Author Christopher Brown [aut, cre], Decision Patterns [cph]

Maintainer Christopher Brown <chris.brown@decisionpatterns.com>

Date/Publication 2018-06-26 04:38:34 UTC


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**Description**

Creates backpiping operators

**Usage**

```r
backpipe(pipe, backpipe = gsub(">", ", pipe))
```

**Arguments**

- `pipe` character; string representing the existing pipe operator
- `backpipe` character; string representing the desired backpipe operator

**Details**

Only `pipe` is necessary. Arbitrary mixing of forward and reverse are not allowed.

**References**

https://github.com/smbache/magrittr/issues/26
http://stackoverflow.com/questions/3130U3TR/is-right-to-left-operator-associativity-in-r-possible

**See Also**

%<%  
%>>%

**Examples**

```r
backpipe('%>%')
backpipe('%>>%', '%<<%')
```
**Description**

Call this function to insert %\textless;-% at the cursor position.

**Usage**

```r
insert_backpipe()
```

**Details**

Use **Tools > Modify Keyboard Shortcuts** to bind a -\textgreater;: -\textgreater;:

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**backs**: %<%, %«%

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**Description**

Provides back-piping operators %<% (magrittr) or %<<% (pipeR) allowing a reverse (right-to-left) order of arguments.

**Usage**

```r
lhs %<% rhs

lhs %<<% rhs
```

**Arguments**

- `lhs` argument on the lhs of the backpipe
- `rhs` argument on the rhs of the backpipe

**Details**

- %<% works with magrittr. %<<% works with pipeR. They are both based on `backpipe`.
- Other magrittr operators and complex expressions are not supported yet.
- It is not possible to mix forward and backward piping in the same expression because of likely ambiguous results.
References

https://github.com/smbache/magrittr/issues/26
http://stackoverflow.com/questions/31305342/is-right-to-left-operator-associativity-in-r-possible

See Also

%>%
%>>%

Examples

## Not run:
require(magrittr)
letters %>% paste0(1:26) # forward pipe
paste0(1:26) %<>% letters # backward pipe

  mean %<% range( na.rm = TRUE ) %<% c(1:5, NA)

## End(Not run)

## Not run:
require(pipeR)
letters %>>% paste0(1:26) # forward pipe
paste0(1:26) %<<% letters # backward pipe

  mean %<<% range( na.rm = TRUE ) %<<% c(1:5, NA)

## End(Not run)

## Not run:
require(shiny)
div( class="outer-outer") %<%
div( class="outer") %<%
div( class="inner") %<%
  h1( "content", role="heading" )

## End(Not run)
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