

Package: backpipe (via r-universe)

August 20, 2024

Type Package

Title Backward Pipe (Right-to-Left) Operator

Version 0.2.3

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Description Provides a backward-pipe operator for 'magrittr' (`%<%`) or 'pipeR' (`%<<%`) that allows for 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 ($\geq 3.1.0$)

Suggests magrittr (≥ 1.5), pipeR ($\geq 0.6.0.6$), R6 ($\geq 2.1.1$), testthat ($\geq 1.0.0$), shiny ($\geq 0.12.1$), 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

Roxygen list(markdown = TRUE)

Encoding UTF-8

VignetteBuilder knitr

Repository <https://decisionpatterns.r-universe.dev>

RemoteUrl <https://github.com/decisionpatterns/backpipe>

RemoteRef HEAD

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Contents

backpipe	2
insert_backpipe	3
%<%	3
Index	5

backpipe	<i>backpipe</i>
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Description

Creates backpiping operators

Usage

```
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/31305342/is-right-to-left-operator-associativity-in-r-possible>

See Also

[%>%](#)
[%>>%](#)

Examples

```
backpipe('%>%')
backpipe('%>>%', '%<<%')
```

insert_backpipe	<i>Insert backpipe</i>
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Description

Call this function to insert `<-` at the cursor position.

Usage

```
insert_backpipe()
```

Details

Use **Tools > Modify Keyboard Shortcuts** to bind a `->.`; `->.`;

<code>%<%</code>	<i>backpipes: %<% , %<<%</i>
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Description

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

Usage

```
lhs %<% rhs
```

```
lhs %<<% rhs
```

Arguments

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

Index

`%<% (%<%)`, 3

`%<%`, 3

`%>%`, 2, 4

`%>>%`, 2, 4

`backpipe`, 2, 3

`insert_backpipe`, 3