DOT PIPE

```
library("wrapr")
5 %.>% sin(.)
```

```
## [1] -0.9589243
```

```
print(.)
```

```
## [1] 5
```

```
5 %.>% {1 + .}
```

```
## [1] 6
```

```
5 %.>% (1 + .)
```

```
## [1] 6
```

```
 library("dplyr")
```

```
##
## Attaching package: 'dplyr'

## The following object is masked from 'package:wrapr':
##
##     coalesce

## The following objects are masked from 'package:stats':
##
##     filter, lag

## The following objects are masked from 'package:base':
##
##     intersect, setdiff, setequal, union
```

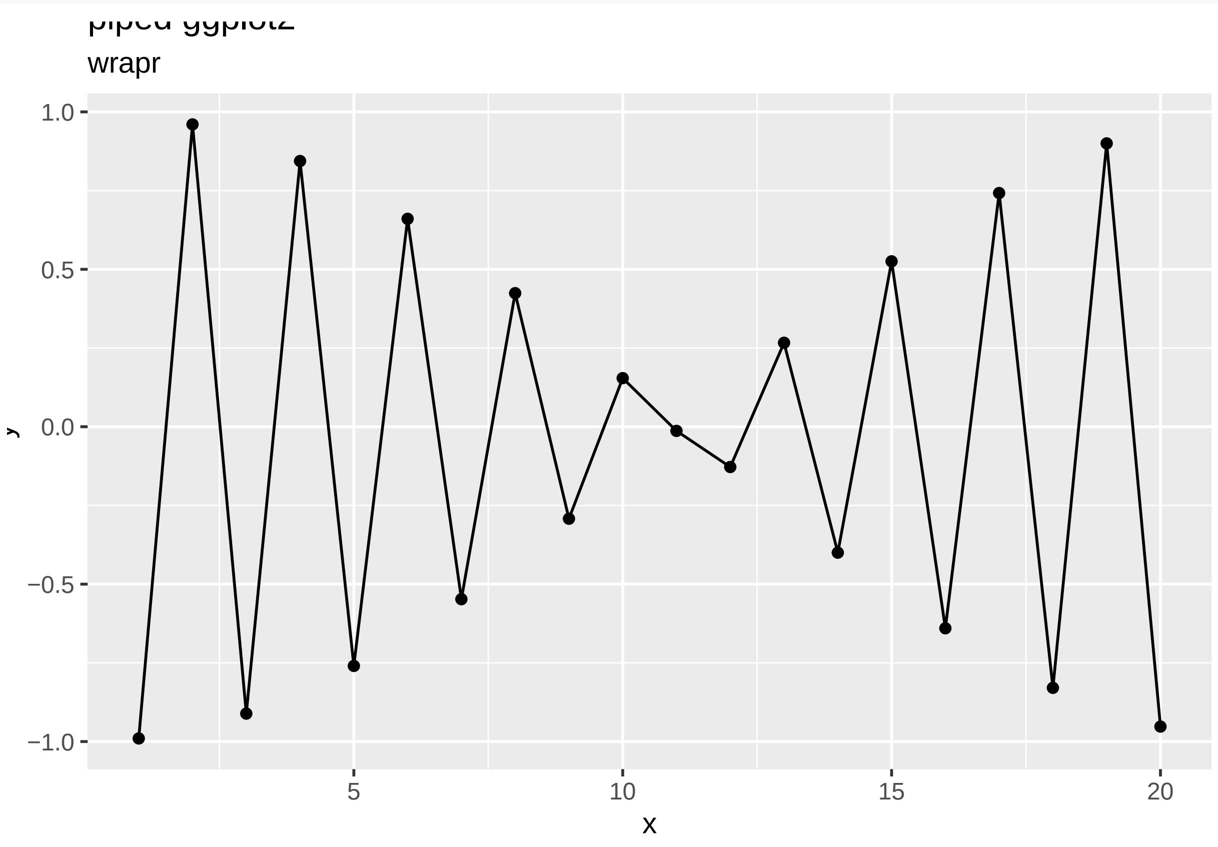
```
disp <- 4
mtcars %.>%
filter(., .data$cyl == .env$disp) %.>%
nrow(.)
```

```
## [1] 11
```

```
library("ggplot2")
apply_left.gg <- function(pipe_left_arg,
pipe_right_arg,
pipe_environment,
left_arg_name,
pipe_string,
right_arg_name) {
pipe_right_arg <- eval(pipe_right_arg,
envir = pipe_environment,
enclos = pipe_environment)
pipe_left_arg + pipe_right_arg
}
```

```
data.frame(x = 1:20) %.>%
mutate(., y = cos(3*x)) %.>%
ggplot(., aes(x = x, y = y)) %.>%
geom_point() %.>%
```

```r
geom_line() %.>%
ggtitle("piped ggplot2",
subtitle = "wrapr")
```



```r
library("rquery")
```

```
##
## Attaching package: 'rquery'
```

```
## The following object is masked from 'package:ggplot2':
##
##     arrow
```

```r
optree <- mk_td(table_name = "d", columns = "x") %.>%
extend_nse(., y = cos(2*x))
```

```r
class(optree)
```

```
## [1] "relop_extend" "relop"
```

```r
print(optree)
```

```
## [1] "mk_td(\"d\", c( \"x\")) %.>% extend(., y := cos(2 * x))"
```

```r
column_names(optree)
```

```
## [1] "x" "y"
```

```r
columns_used(optree)
```

```
## $d
## [1] "x"
```

```
# get a database connection
db = DBI::dbConnect(RSQLite::SQLite(), ":memory:")
# make our db connection available to rquery package
options(list("rquery.rquery_db_executor" = list(db = db)))
data.frame(x = 1:3) %.>% optree # apply optree to d
```

```
##   x          y
## 1 1 -0.4161468
## 2 2 -0.6536436
## 3 3  0.9601703
```

```
d1 <- data.frame(x = 1)
d2 <- data.frame(x = 2)
tryCatch(
d1 %.>% d2,
error = function(e) { invisible(cat(format(e))) })
```

```
## wrapr::apply_right_S4 default called with classes:
##  d1 data.frame
##  d2 data.frame
##   must have a more specific S4 method defined to dispatch
##  NULL
```

```
setMethod(
"apply_right_S4",
signature = c("data.frame", "data.frame"),
definition = function(pipe_left_arg,
pipe_right_arg,
pipe_environment,
left_arg_name,
pipe_string,
right_arg_name) {
rbind(pipe_left_arg, pipe_right_arg)
})
d1 %.>% d2
```

```
##   x
## 1 1
## 2 2
```

```
d1 %.>% data.frame(x = 2)
```

```
##   x
## 1 2
```

```
library("magrittr")
5 %>% sin
```

```
## [1] -0.9589243
```

```
`%userpipe%` <- magrittr::`%>%`
tryCatch(
5 %userpipe% sin,
error = function(e) {e})
```

```
## <simpleError in pipes[[i]]: subscript out of bounds>
```

```
`%userpipe%` <- wrapr::`%.>%`
5 %userpipe% sin
```

```
## [1] -0.9589243
```

```
library("magrittr")
5 %>% substitute
```

```
## value
```

```
tryCatch(
5 %>% base::sin,
error = function(e) {e})
```

```
## <simpleError in .::base: unused argument (sin)>
```

```
library("wrapr")
5 %.>% substitute
```

```
## [1] 5
```

```
5 %.>% base::sin
```

```
## [1] -0.9589243
```

```
d <- data.frame(x = 1:5, y = c(1, 1, 0, 1, 0))
model <- glm(y~x, family = binomial, data = d)
apply_right.glm <-
function(pipe_left_arg,
pipe_right_arg,
pipe_environment,
left_arg_name,
pipe_string,
right_arg_name) {
predict(pipe_right_arg,
newdata = pipe_left_arg,
type = 'response')
}
data.frame(x = c(1, 3)) %.>% model
```

```
##         1         2
## 0.9428669 0.6508301
```

```
# get a database connection
db = DBI::dbConnect(RSQLite::SQLite(),
":memory:")
apply_right.SQLiteConnection <-
function(pipe_left_arg,
pipe_right_arg,
pipe_environment,
left_arg_name,
pipe_string,
right_arg_name) {
DBI::dbGetQuery(pipe_right_arg, pipe_left_arg)
}
"SELECT * FROM sqlite_temp_master" %.>% db
```

```
## [1] type     name     tbl_name rootpage sql
## <0 rows> (or 0-length row.names)
```

```r
apply_left.character <- function(pipe_left_arg,
pipe_right_arg,
pipe_environment,
left_arg_name,
pipe_string,
right_arg_name) {
pipe_right_arg <- eval(pipe_right_arg,
envir = pipe_environment,
enclos = pipe_environment)
paste0(pipe_left_arg, pipe_right_arg)
}
"a" %.>% "b" %.>% "c"
```

```
## [1] "abc"
```

```r
apply_left.formula <- function(pipe_left_arg,
pipe_right_arg,
pipe_environment,
left_arg_name,
pipe_string,
right_arg_name) {
pipe_right_arg <- eval(pipe_right_arg,
envir = pipe_environment,
enclos = pipe_environment)
pipe_right_arg <- paste(pipe_right_arg, collapse = " + ")
update(pipe_left_arg, paste(" ~ . +", pipe_right_arg))
}
(y~a) %.>% c("b", "c", "d") %.>% "e"
```

```
## y ~ a + b + c + d + e
```