Dot-pipe reproduced

Morgen 3/3/2020

```
knitr::opts_chunk$set(warning = FALSE, message = FALSE)
library("wrapr")
5 %.>% sin(.)
## [1] -0.9589243
print(.)
## [1] 5
5 %.>% {1 + .}
## [1] 6
5 %.>% (1 + .)
## [1] 6
library("dplyr")
disp <- 4
  mtcars %.>%
  filter(., .data$cyl == .env$disp) %.>%
 nrow(.)
## [1] 11
library("ggplot2")
apply_left.gg <- function(pipe_left_arg,</pre>
  pipe_right_arg,
  pipe_environment,
  left_arg_name,
  pipe_string,
  right_arg_name) {
  pipe_right_arg <- eval(pipe_right_arg,</pre>
  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() %.>%
  geom_line() %.>%
  ggtitle("piped ggplot2",
  subtitle = "wrapr")
```

```
wrapr
  1.0 -
  0.5 -
5 0.0 -
 -0.5 -
 -1.0 -
                         5
                                            10
                                                                15
                                                                                    20
                                               Χ
library("rquery")
optree <- mk_td(table_name = "d", columns = "x") %.>%
  extend_nse(., y = cos(2*x))
class(optree)
## [1] "relop_extend" "relop"
print(optree)
## [1] "mk_td(\"d\", c( \"x\")) %.>% extend(., y := cos(2 * x))"
column_names(optree)
## [1] "x" "y"
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
## 1 1 -0.4161468
## 2 2 -0.6536436
## 3 3 0.9601703
```

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```
d1 \leftarrow data.frame(x = 1)
d2 \leftarrow 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
##
## 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
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 \leftarrow data.frame(x = 1:5, y = c(1, 1, 0, 1, 0))
model \leftarrow 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
## 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
                          tbl_name rootpage sql
                name
## <0 rows> (or 0-length row.names)
apply_left.character <- function(pipe_left_arg,</pre>
 pipe_right_arg,
 pipe_environment,
 left_arg_name,
 pipe_string,
 right_arg_name) {
 pipe_right_arg <- eval(pipe_right_arg,</pre>
 envir = pipe_environment,
 enclos = pipe_environment)
 paste0(pipe_left_arg, pipe_right_arg)
"a" %.>% "b" %.>% "c"
## [1] "abc"
apply_left.formula <- function(pipe_left_arg,</pre>
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
```