

Weryfikacja reprodukowalności

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ggplot2 Compatible Quantile-QuantilePlots in R

Figure 1

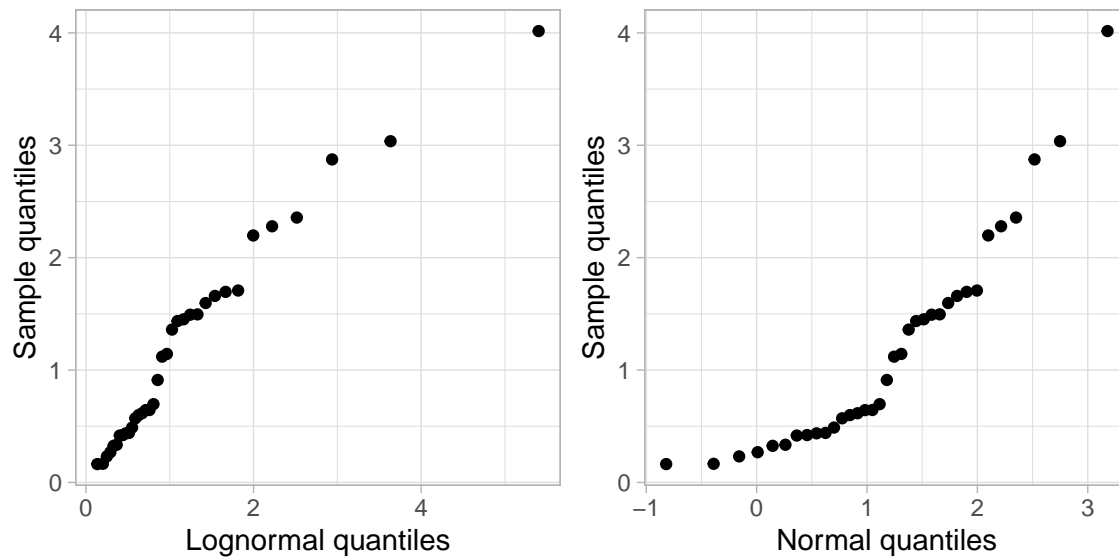


Figure 2

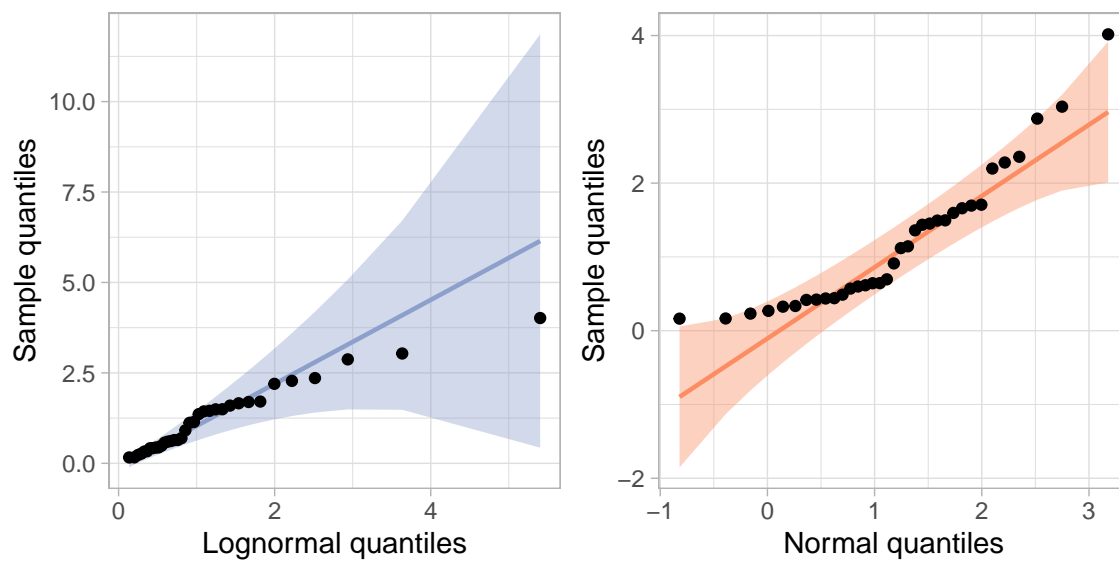


Figure 3

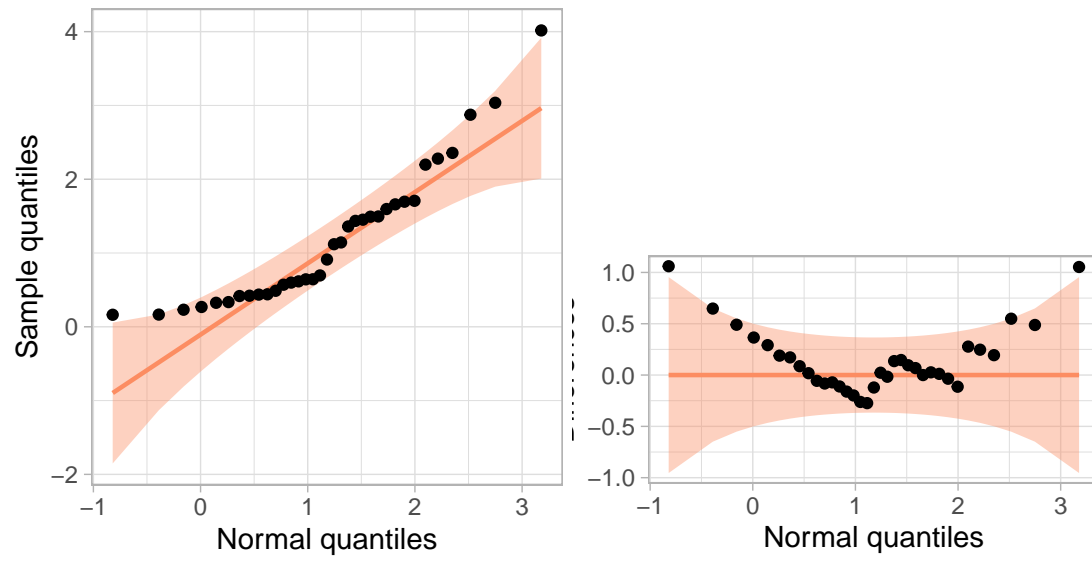


Figure 4

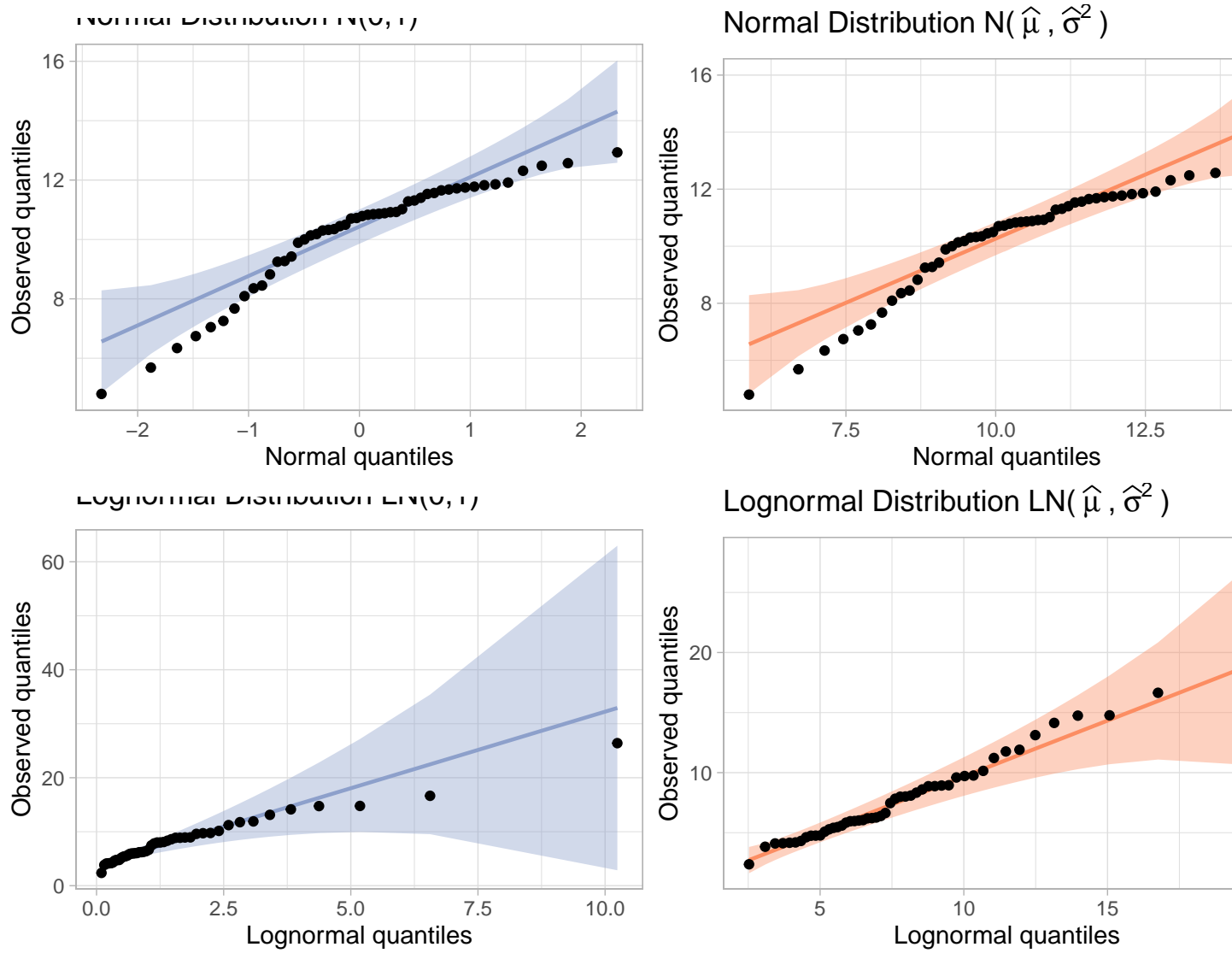


Figure 5

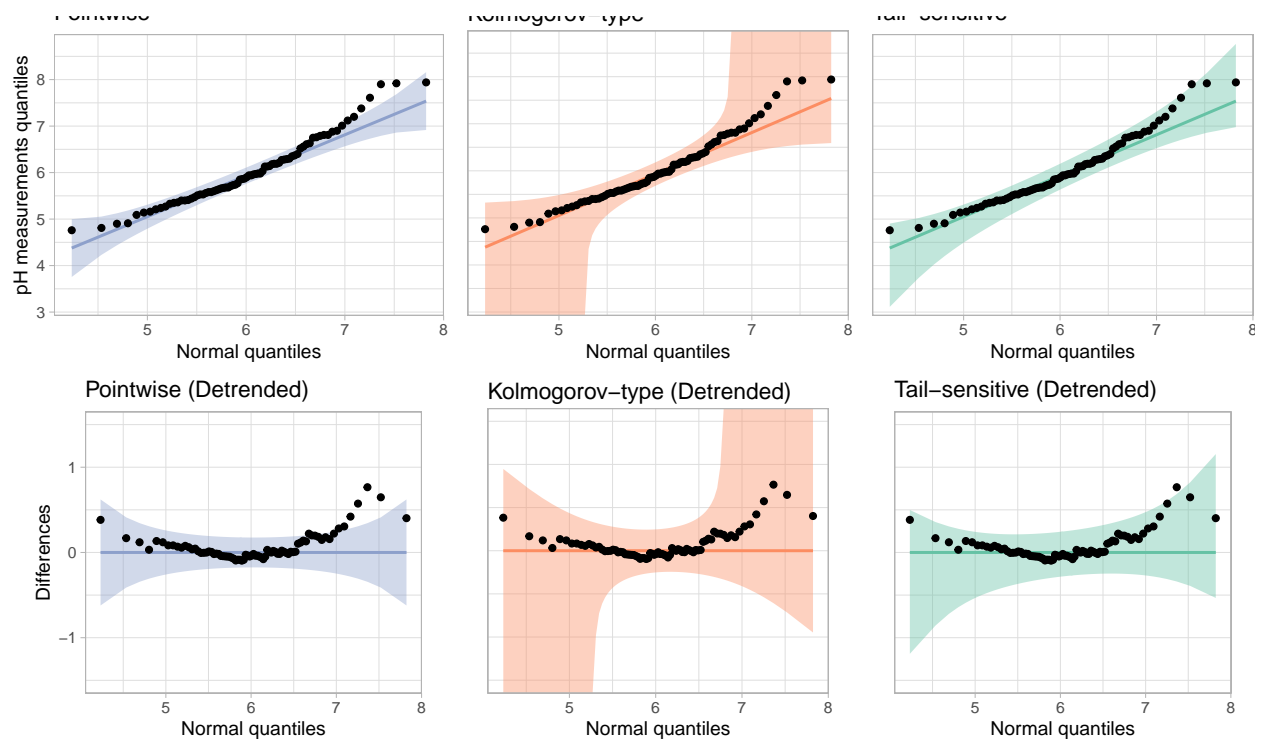


Figure 6

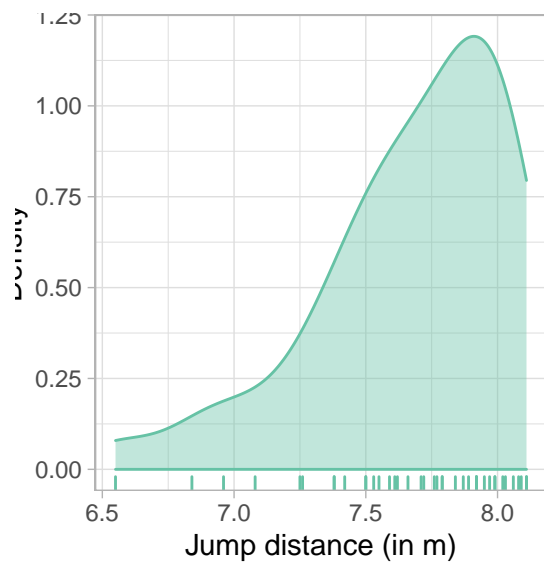


Figure 7

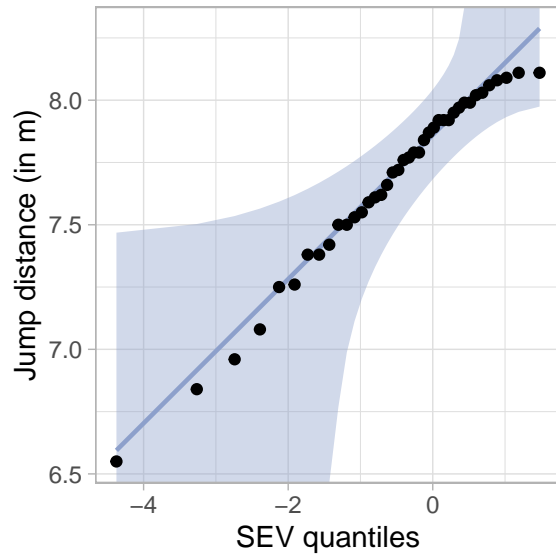


Figure 8

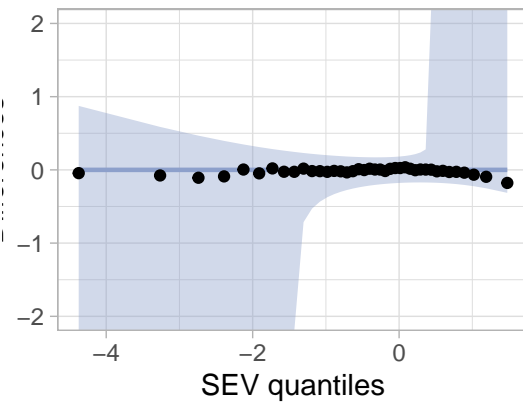


Figure 9

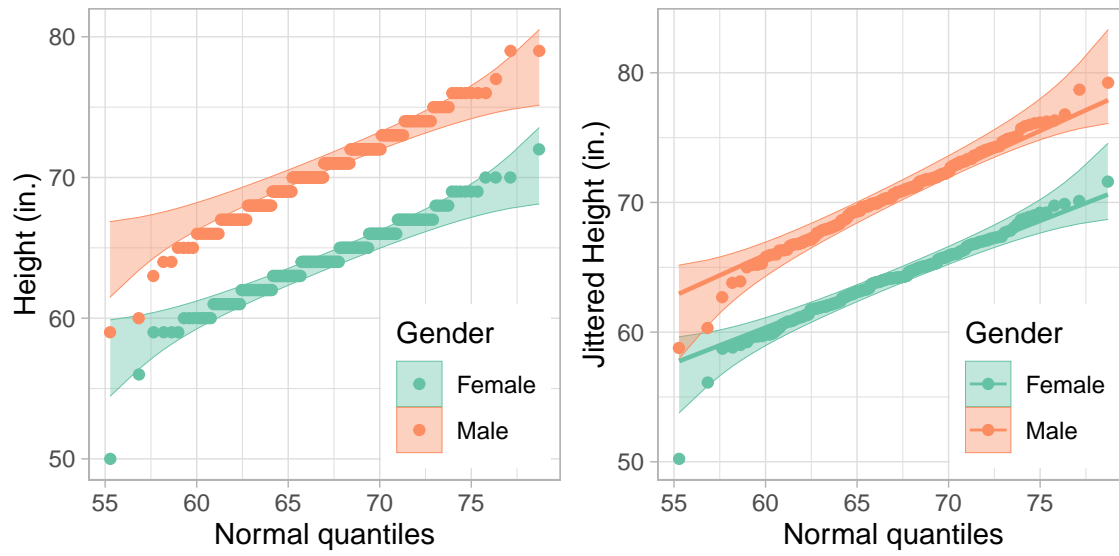


Table 1

SEX	mean height (in)	sd (in)	mean log weight (kg)	sd (kg)
Male	70.55043	2.966460	9.100936	0.2011216
Female	64.50972	2.911454	8.887950	0.2254663
Total	66.99109	4.176295	8.978768	0.2397852

Figure 10

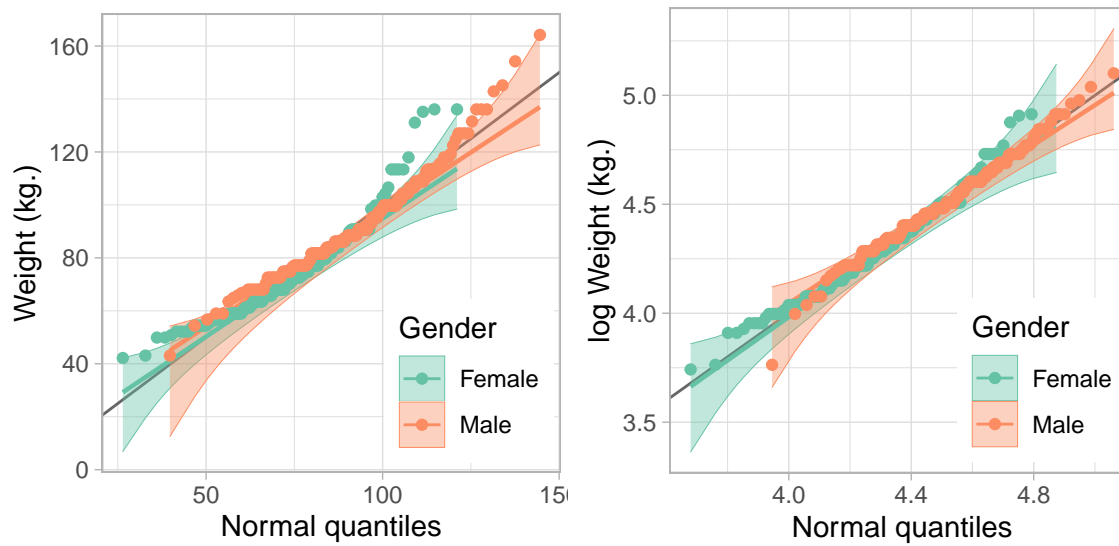
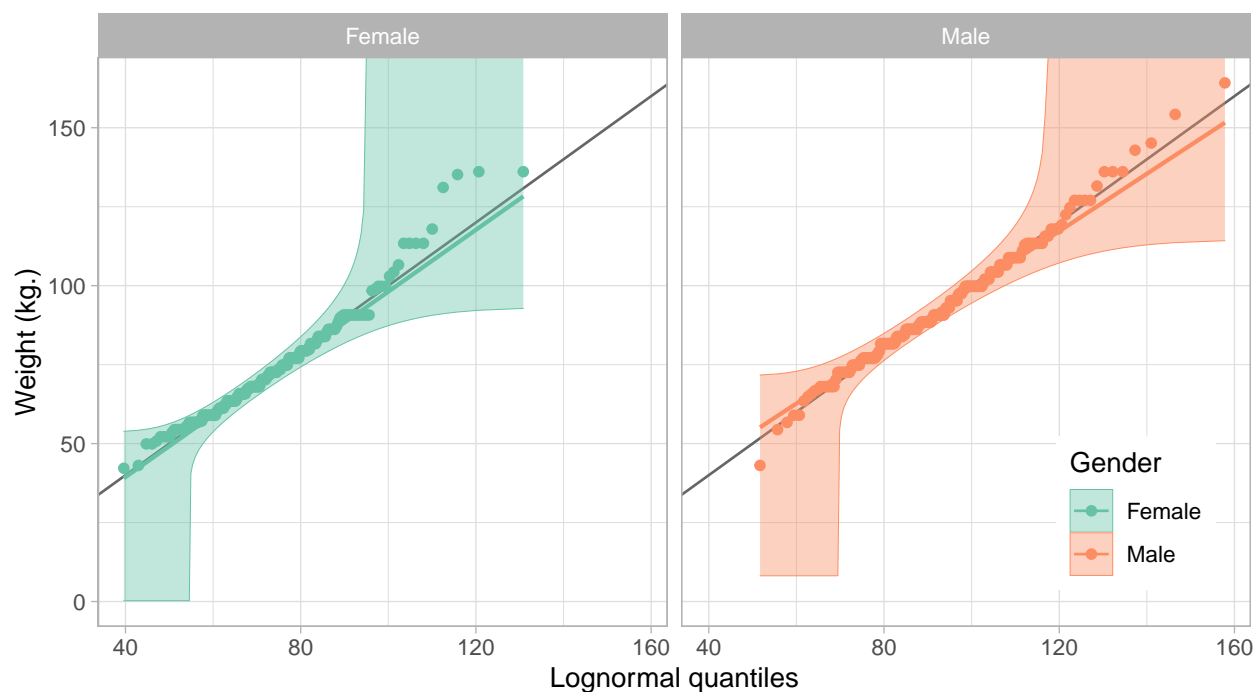


Figure 11



Dot-Pipe: an S3 Extensible Pipe for R

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

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

```
print(.)
```

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

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

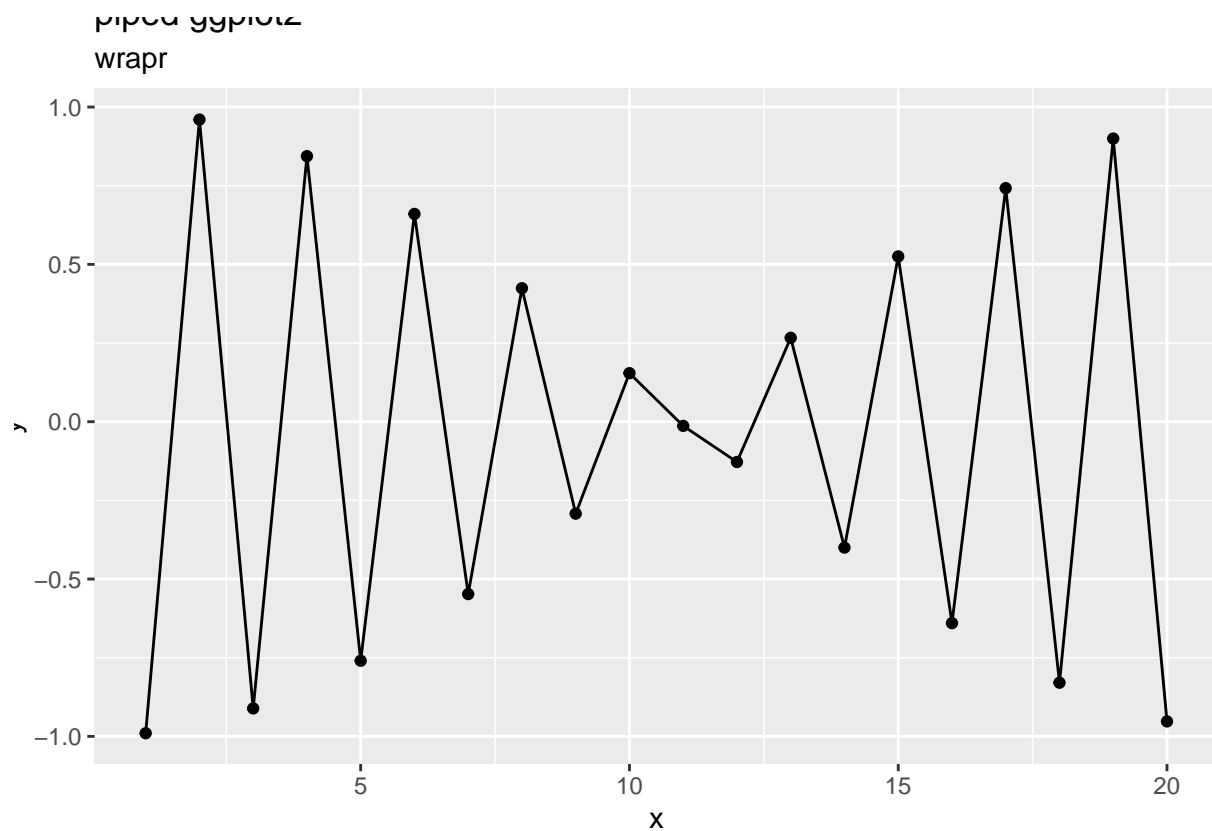
```
## [1] 11
```

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

```



```

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      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))) })

```

```

##      x
## 1 1
## 2 2

```

```

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>

```

```

library("magrittr")
5 %>% substitute

```

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

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

```
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)
```

```
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"
```

```

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

```