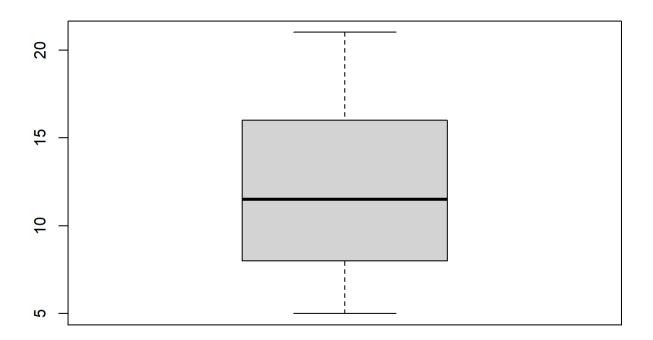
# SCRIPT\_1.R

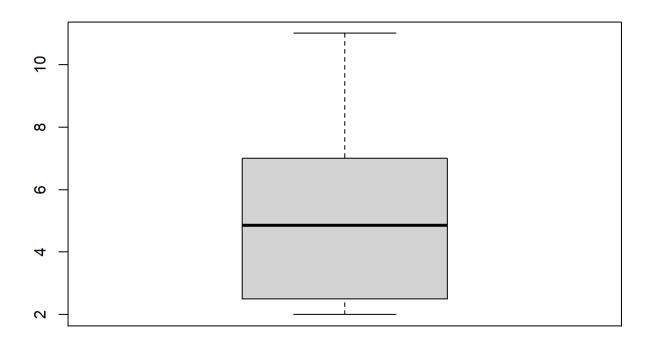
#### yesiv

2023-02-09

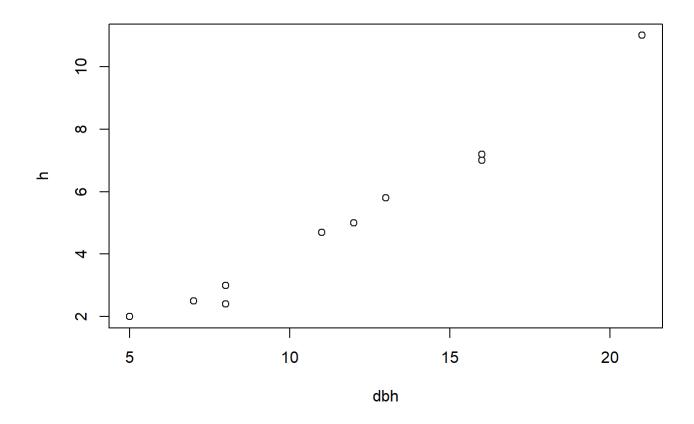
```
# Yesenia Villarreal Torres
# 09/02/2023
# Sesion 1: Estadísticas descriptivas
# SESION 1 ------
dbh <- 15
h <- 8
#Multiplicacion
dbh * h
## [1] 120
log(dbh)
## [1] 2.70805
dbh <- c(12, 8, 7, 5, 11, 13, 16,21, 8, 16)
#Multiplicación
dbh*h
  [1] 96 64 56 40 88 104 128 168 64 128
h <- c(5, 3, 2.5, 2, 4.7, 5.8, 7, 11, 2.4, 7.2)
#Multiplicación
dbh*h
## [1] 60.0 24.0 17.5 10.0 51.7 75.4 112.0 231.0 19.2 115.2
boxplot(dbh)
```



boxplot(h)

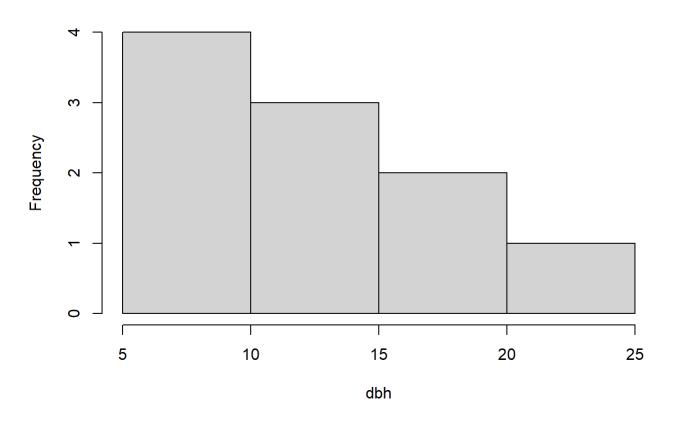


plot(dbh,h)



hist(dbh)

#### Histogram of dbh



```
set.seed(13)
rnorm(50, mean =3)
```

```
## [1] 3.5543269 2.7197281 4.7751634 3.1873201 4.1425261 3.4155261 4.2295066

## [8] 3.2366797 2.6346172 4.1051443 1.9064060 3.4618709 1.6390155 1.1439728

## [15] 2.5601446 2.8060531 4.3964315 3.1006632 2.8855612 3.7022252 3.2625427

## [22] 4.8361633 3.3574024 1.9545899 3.6201841 3.1493545 1.5406831 0.9729562

## [29] 1.9430422 2.2718563 2.9917893 3.8477974 2.6165085 2.4734885 2.7267740

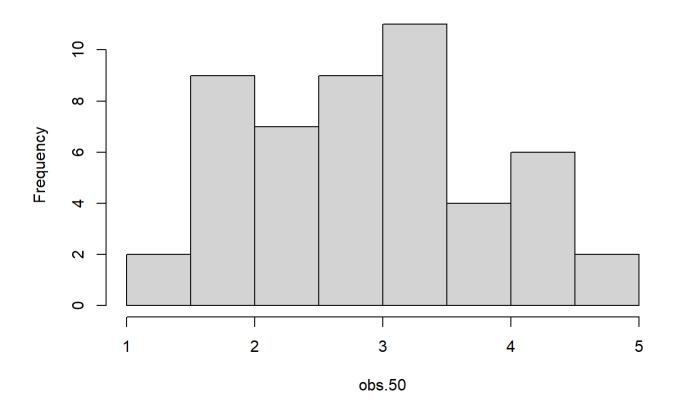
## [36] 2.3942584 2.6671327 2.7584625 2.1372246 2.1530292 3.1003403 4.5900335

## [43] 3.5664949 4.6144795 2.5313498 2.2738986 1.9766610 1.0621845 3.2771473

## [50] 4.4083537
```

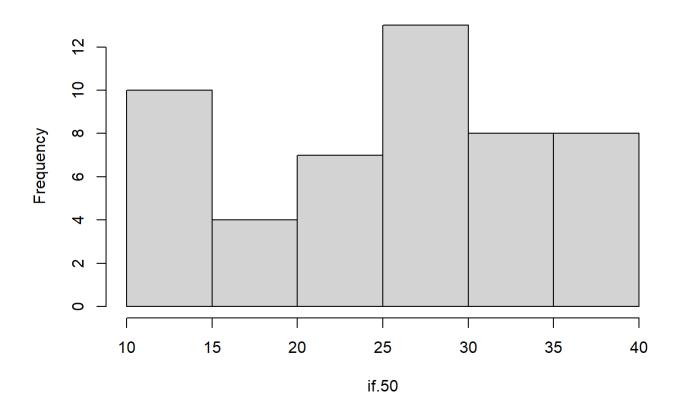
```
obs.50 <- rnorm(50, mean =3)
hist(obs.50)
```

## Histogram of obs.50



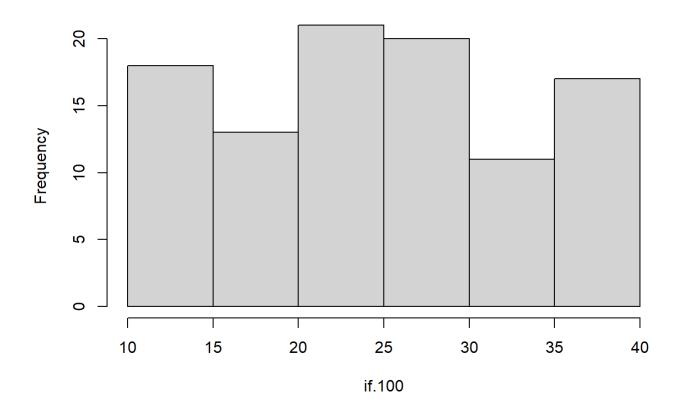
```
set.seed(13)
if.50 <- runif(50, min = 10, max = 40)
hist(if.50)</pre>
```

## Histogram of if.50



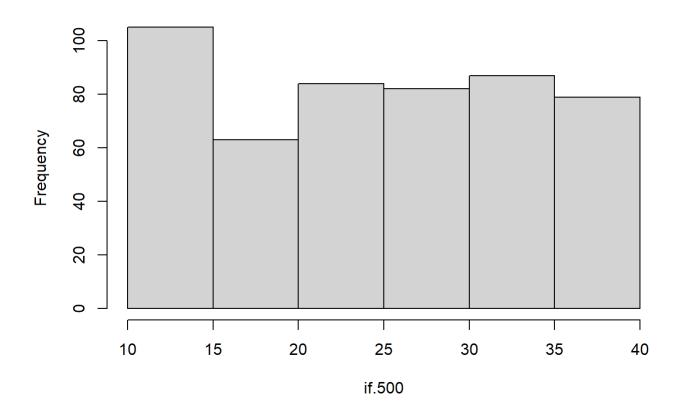
```
set.seed(13)
if.100 <- runif(100, min = 10, max = 40)
hist(if.100)</pre>
```

## Histogram of if.100



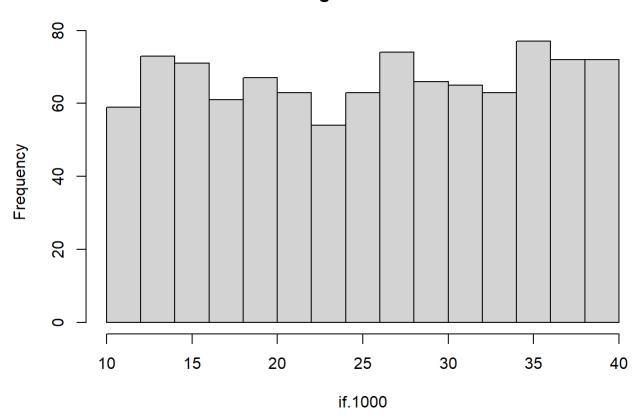
if.500 <- runif(500, min = 10, max = 40) hist(if.500)

# Histogram of if.500



if.1000 <- runif(1000, min = 10, max = 40)
hist(if.1000)</pre>

## Histogram of if.1000

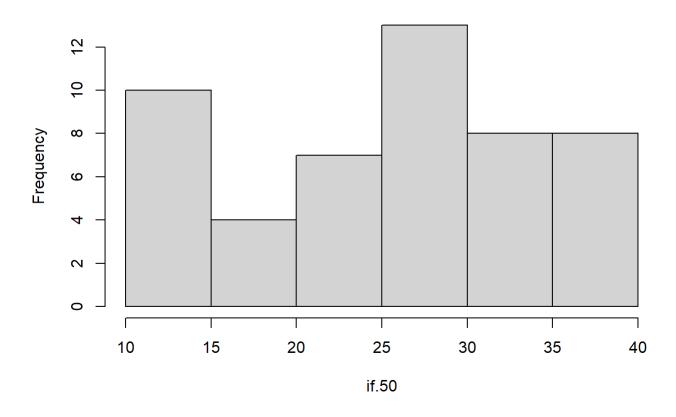


```
#grafica de hoja y tallo
stem(if.50)
```

```
##
    The decimal point is 1 digit(s) to the right of the |
##
##
     1 | 0112333344
##
     1 | 77
##
     2 | 001122344
##
##
     2 | 666778888999
         000012334
##
     3 | 66678899
##
```

```
hist(if.50)
```

#### Histogram of if.50



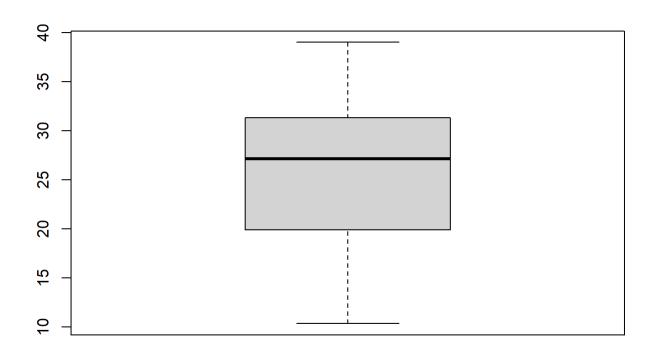


## [1] 25.3432

fivenum(if.50)

## [1] 10.32800 19.87381 27.10863 31.30967 39.00500

boxplot(if.50)



```
#igual o mayor >=
#igual o menos <=
#mayor que >
#menor que <
#Quiero con el if.50 que me de los datos igual o menor a la mediana
if.50 <= median(if.50)
  [1] FALSE TRUE TRUE TRUE FALSE TRUE FALSE FALSE FALSE TRUE FALSE FALSE
## [13] FALSE TRUE FALSE TRUE TRUE FALSE FALSE TRUE TRUE FALSE TRUE
## [25] TRUE FALSE TRUE TRUE TRUE FALSE TRUE TRUE FALSE TRUE
                                                                      TRUE
## [37] TRUE TRUE FALSE TRUE FALSE TRUE FALSE FALSE FALSE TRUE TRUE
## [49] FALSE FALSE
subset(if.50, if.50 <= median(if.50))</pre>
```

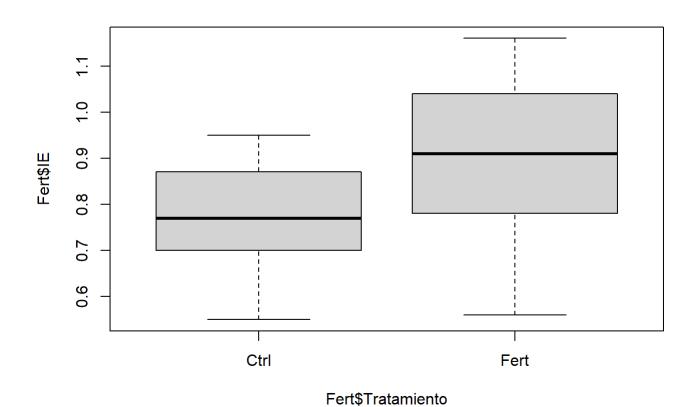
[1] 17.38412 21.68903 12.74151 10.32800 11.23190 26.98841 20.93544 20.72239 [9] 14.11200 26.40847 25.84244 12.60278 10.95175 23.84238 19.90063 22.69326 ## [17] 22.15630 26.20273 13.21857 23.63335 11.55899 12.51436 16.89851 14.43750

#iqual a == #diferente a !=

##

## [25] 19.87381

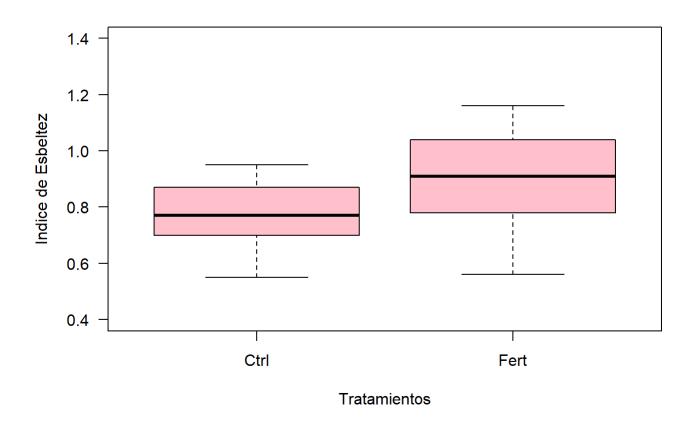
```
subset(if.50, if.50 >= median(if.50))
## [1] 31.30967 38.86194 27.22886 32.93194 36.20147 29.83365 36.35113 36.71677
## [9] 27.80642 27.74371 35.96354 30.41571 30.33739 28.59972 29.00562 37.56123
## [17] 34.26281 32.76192 28.10645 39.00500 28.13664 29.18814 37.56994 31.97295
## [25] 30.41875
dbh.50 <- subset(if.50, if.50 <= median(if.50))</pre>
dbh.up50 <- subset(if.50, if.50 >= median(if.50))
dbh.up30 <- subset(if.50, if.50>30)
dbh.up30
## [1] 31.30967 38.86194 32.93194 36.20147 36.35113 36.71677 35.96354 30.41571
## [9] 30.33739 37.56123 34.26281 32.76192 39.00500 37.56994 31.97295 30.41875
mean(dbh.up30)
## [1] 34.54013
sd(dbh.up30)
## [1] 3.100909
#IMPORTAR DATOS -----
#función read.csv
Fert <- read.csv("vivero1.csv", header = TRUE)</pre>
Fert$Tratamiento
## [1] "Ctrl" "Ctrl"
## [11] "Ctrl" "Ctrl"
## [21] "Ctrl" "Fert" "Fert" "Fert" "Fert" "Fert" "Fert" "Fert" "Fert" "Fert"
## [31] "Fert" "
## [41] "Fert" "Fert"
boxplot(Fert$IE ~ Fert$Tratamiento)
```



mail = "Vivero Bosque Escuela",

col = "pink",

las = 1,



#dirección de los subtítuos de los ejes de las y (horizontal o vertical)