

Lab_Semana_3.R

Frida Sofía Oviedo Acosta

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```
getwd()

## [1] "C:/Repositorios/Met_Est_2024"

setwd("C:/Repositorios/Met_Est_2024/Datos")

trees <- read.csv("DBH_1.csv", header=TRUE)
head(trees)

##   Árbol  DBH Parcela
## 1     1  16.5      1
## 2     2  25.3      1
## 3     3  22.1      1
## 4     4  17.2      1
## 5     5  16.1      1
## 6     6   8.1      1

library(repmis)
conjunto <-
source_data("https://www.dropbox.com/scl/fi/mpo1u26mb3efgv4pvfg8l/cuadro1
.csv?rlkey=k0ccrhwur2uosvq9rlva29004&e=1&dl=1")

## Downloading data from:
https://www.dropbox.com/scl/fi/mpo1u26mb3efgv4pvfg8l/cuadro1.csv?rlkey=k0
ccrhwur2uosvq9rlva29004&e=1&dl=1

## SHA-1 hash of the downloaded data file is:
## 2bdde4663f51aa4198b04a248715d0d93498e7ba

head(conjunto)

##   Arbol Fecha Especie Clase Vecinos Diametro Altura
## 1     1    12      F     C      4     15.3   14.78
## 2     2    12      F     D      3     17.8   17.07
## 3     3     9      C     D      5     18.2   18.28
## 4     4     9      H     S      4      9.7    8.79
## 5     5     7      H     I      6     10.8   10.18
## 6     6    10      C     I      3     14.1   14.90

library(readr)
file <- paste0("https://raw.githubusercontent.com/mgtagle/",
               "202_Analisis_Estadistico_2020/master/cuadro1.csv")
inventario <- read_csv(file)
```

```
## Rows: 50 Columns: 7

## — Column specification
## Delimiter: ","
## chr (2): Especie, Clase
## dbl (5): Arbol, Fecha, Vecinos, Diametro, Altura
##
## [i] Use `spec()` to retrieve the full column specification for this
data.
## [i] Specify the column types or set `show_col_types = FALSE` to quiet
this message.

head(inventario)

## # A tibble: 6 × 7
##   Arbol Fecha Especie Clase Vecinos Diametro Altura
##   <dbl> <dbl> <chr>   <chr>   <dbl>   <dbl>   <dbl>
## 1     1     12 F      C         4     15.3    14.8
## 2     2     12 F      D         3     17.8    17.1
## 3     3      9 C      D         5     18.2    18.3
## 4     4      9 H      S         4      9.7     8.79
## 5     5      7 H      I         6     10.8    10.2
## 6     6     10 C      I         3     14.1    14.9

mean(trees$DBH)

## [1] 15.64333

sd(trees$DBH)

## [1] 7.448892

sum(trees$DBH<10)

## [1] 8

which(trees$DBH<10)

## [1]  6  8  9 13 19 21 22 24

trees.13 <- trees[!(trees$Parcela=="2"),]
trees.13

##   Árbol  DBH Parcela
## 1     1 16.5       1
## 2     2 25.3       1
## 3     3 22.1       1
## 4     4 17.2       1
## 5     5 16.1       1
## 6     6  8.1       1
## 7     7 34.3       1
## 8     8  5.4       1
```

```
## 9      9  5.7      1
## 10     10 11.2      1
## 21     21  9.7      3
## 22     22  6.5      3
## 23     23 23.4      3
## 24     24  8.2      3
## 25     25 28.5      3
## 26     26 10.4      3
## 27     27 11.5      3
## 28     28 14.3      3
## 29     29 17.2      3
## 30     30 16.8      3
```

```
trees.1 <- subset(trees,DBH <= 10)
head(trees.1)
```

```
##      Árbol  DBH Parcela
## 6         6  8.1        1
## 8         8  5.4        1
## 9         9  5.7        1
## 13        13  7.7        2
## 16        16 10.0        2
## 19        19  7.8        2
```

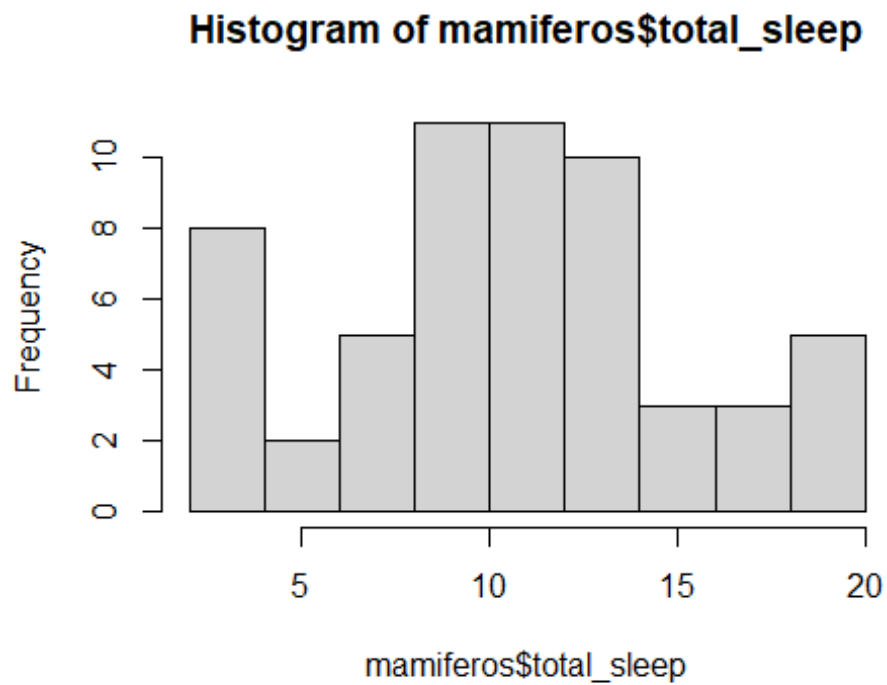
```
mean(trees$DBH)
```

```
## [1] 15.64333
```

```
mean(trees.1$DBH)
```

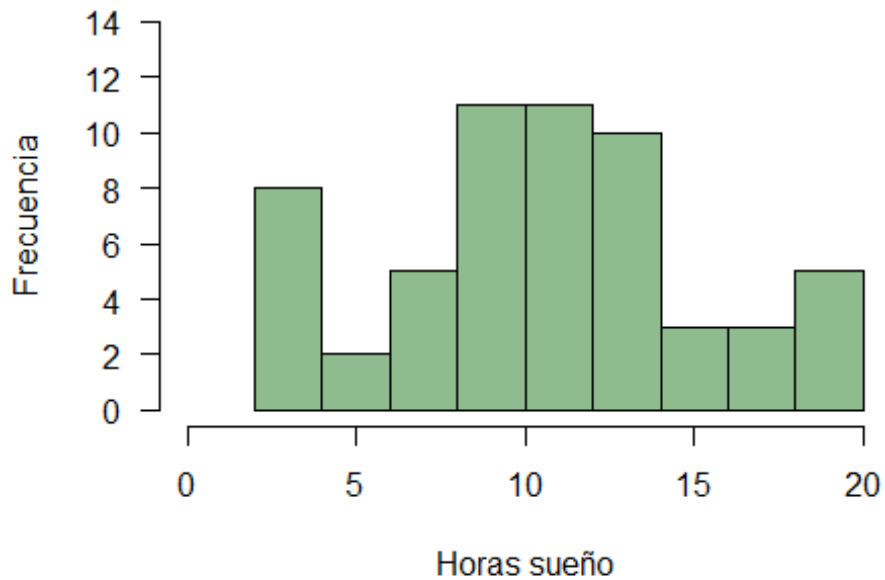
```
## [1] 7.677778
```

```
mamiferos <- read.csv("https://www.openintro.org/data/csv/mammals.csv")
hist(mamiferos$total_sleep)
```



```
hist(mamiferos$total_sleep,  
     xlim = c(0,20),  
     ylim = c(0,14),  
     main = "Total de horas sueño de las 39 especies",  
     xlab = "Horas sueño",  
     ylab = "Frecuencia",  
     las = 1,  
     col = "#8FBC8F")
```

Total de horas sueño de las 39 especies



```
data("chickwts")
head(chickwts[c(1:2,42:43, 62:64), ])

##    weight    feed
## 1     179 horsebean
## 2     160 horsebean
## 42    226 sunflower
## 43    320 sunflower
## 62    379  casein
## 63    260  casein

feeds <- table(chickwts$feed)
feeds

##
##    casein horsebean  linseed  meatmeal  soybean sunflower
##        12         10        12        11         14         12

barplot(feeds)
```



```
barplot(feeds[order(feeds, decreasing = FALSE)],  
        horiz = TRUE,  
        xlim = c(0,14),  
        main = "Frecuencias por tipo de alimentación",  
        xlab = "Número de pollos",  
        las = 1,  
        col = "#8FBC8F"  
)
```

Frecuencias por tipo de alimentación

