Laboratorio-3.R

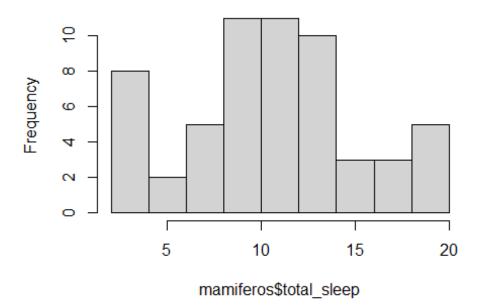
Andy

2024-05-9

```
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# 2026333
# 08/05/2024
# Ingresar datos directos en la consola ------
dbh <- c(16.5, 25.3, 22.1, 17.2, 16.1, 8.1, 34.3, 5.4, 11.2,
        24.1, 14.5, 7.7, 15.6, 15.9, 10, 17.5, 20.5, 7.8, 27.3,
        9.7, 6.5, 23.4, 8.2, 28.5, 10.4, 11.5, 14.3, 17.2, 16.8)
# Datos de URL seguras: Dropbox y Github ------
library(repmis)
conjunto <-
source data("https://www.dropbox.com/s/hmsf07bbayxv6m3/cuadro1.csv?dl=1")
## Downloading data from:
https://www.dropbox.com/s/hmsf07bbayxv6m3/cuadro1.csv?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
                C D
H S
## 3
       3
            9
                                5
                                       18.2 18.28
                             4
6
            9
## 4
        4
                                       9.7
                                            8.79
                         Ι
## 5
        5
            7
                    Н
                                      10.8 10.18
## 6
        6 10
                  С
                          Ι
                                  3
                                       14.1 14.90
library(readr)
file <- paste0("https://raw.githubusercontent.com/mgtagle/",</pre>
              "202_Analisis_Estadistico_2020/master/cuadro1.csv")
```

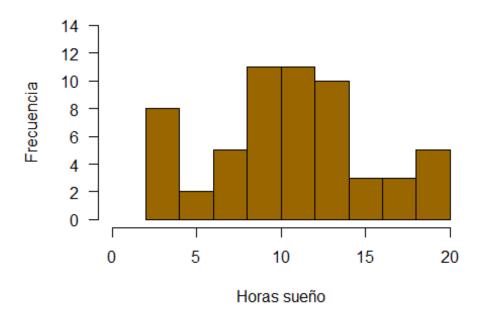
```
inventario <- read.csv(file)</pre>
head(inventario)
##
    Arbol Fecha Especie Clase Vecinos Diametro Altura
## 1
             12
                      F
                           C
                                         15.3 14.78
                      F
                                   3
## 2
        2
             12
                            D
                                         17.8 17.07
       3 9
                     C
                                  5
## 3
                          D
                                         18.2 18.28
                    H S
                               4
6
       4
             9
## 4
                                         9.7
                                               8.79
## 5
        5
             7
                     Н
                            Ι
                                         10.8 10.18
                               3
                      C
## 6
        6 10
                            Ι
                                         14.1 14.90
# Operaciones con la base de datos -----
mean(trees$DBH)
## Warning in mean.default(trees$DBH): argument is not numeric or
logical:
## returning NA
## [1] NA
sd(trees$dbh)
## [1] NA
sum(trees$dbh < 10)</pre>
## [1] 0
which(trees$dbh < 10)</pre>
## integer(0)
trees.13 <- trees[! (trees$parcela == "2"), ]</pre>
trees.13
## [1] Girth Height Volume
## <0 rows> (or 0-length row.names)
trees.1 <- subset(trees, dbh <= 10)
head(trees.1)
##
     Girth Height Volume
## 6
      10.8
                    19.7
               83
## 8
      11.0
               75
                    18.2
## 12 11.4
               76
                    21.0
## 15 12.0
               75
                    19.1
## 18 13.3
               86
                    27.4
## 20 13.8
               64
                    24.9
mean(trees$dbh)
```

Histogram of mamiferos\$total_sleep



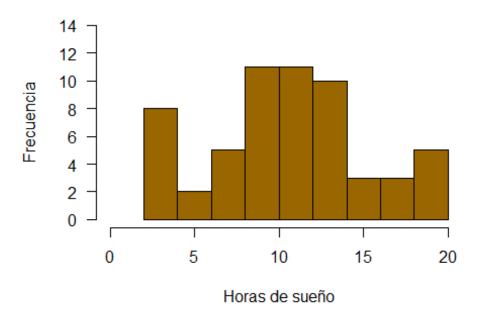
```
hist(mamiferos$total_sleep, xlim = c(0, 20), ylim = c(0,14),
    main = "Total de horas sueño de las 39 especies",
    xlab = "Horas sueño", ylab = "Frecuencia", las = 1, col = "#996600")
```

Total de horas sueño de las 39 especies

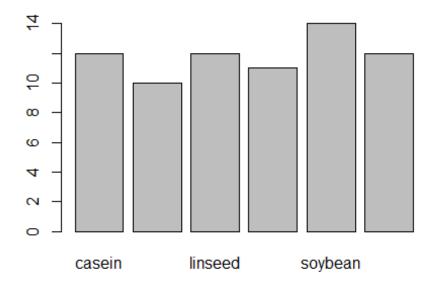


```
# Datos
---
hist(mamiferos$total_sleep,
    xlim = c(0,20), ylim = c(0,14), # Cambiar los limites de x & y,
    main = "Total de horas de sueño de 39 especies ", # Cambiar el
titulo,
    xlab = "Horas de sueño", # Cambiar eje de las x,
    ylab = "Frecuencia", # Cambiar eje de las y,
    las = 1, # Cambiar orientacion de y,
    col = "#996600") # Cambiar color de las barras
```

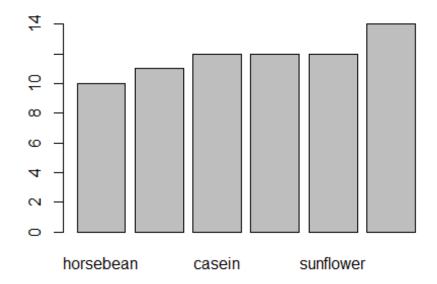
Total de horas de sueño de 39 especies



```
data("chickwts")
head(chickwts[c(1:2, 42:43, 62:64),])
##
      weight
                  feed
         179 horsebean
## 1
## 2
         160 horsebean
## 42
         226 sunflower
## 43
         320 sunflower
## 62
         379
                casein
## 63
         260
                casein
feeds <- table(chickwts$feed)</pre>
feeds
##
##
                                               soybean sunflower
      casein horsebean
                          linseed meatmeal
##
          12
                     10
                               12
                                         11
                                                    14
                                                               12
barplot(feeds)
```



barplot(feeds[order(feeds, decreasing = FALSE)])



Personalizar histograma ---

- -

```
barplot(sort(feeds), horiz = TRUE,
    main = "Frecuencia de alimentacion",
    las = 1, xlab = "Numeros de pollos",
    col = c("purple", "pink", "green", "brown", "blue", "yellow"))
```

Frecuencia de alimentacion

