laboratorio-2.R

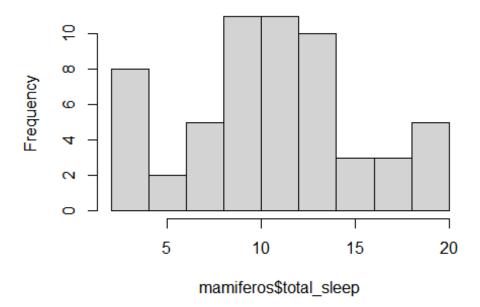
zupap

2024-05-09

```
# Alondra Lizbeth Zuñiga Perales
# Laboratorio 2
# 2070702
# 08/05/2024
# Ingresar datos directo 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
##
                         C
## 1
       1
            12
                   F
                                4
                                      15.3 14.78
           12
                   F
## 2
       2
                        D
                               3
                                     17.8 17.07
                  C D
H S
                              5
4
## 3
       3
            9
                                     18.2 18.28
            9
                                      9.7 8.79
## 4
      4
                               6 10.8 10.18
                   Н
            7
                        I
## 5
      5
                            3
                        I
## 6 6 10
               С
                                    14.1 14.90
library(readr)
file <- paste0("https://raw.githubusercontent.com/mgtagle/",</pre>
             "202_Analisis_Estadistico_2020/master/cuadro1.csv")
```

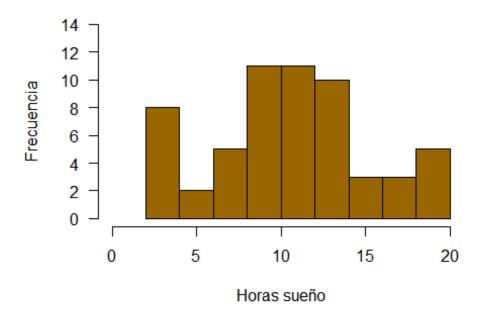
```
inventario <- read.csv(file)</pre>
head(inventario)
     Arbol Fecha Especie Clase Vecinos Diametro Altura
##
## 1
                       F
                             C
         1
              12
                                     4
                                           15.3 14.78
                       F
## 2
         2
              12
                             D
                                     3
                                           17.8 17.07
                       C
## 3
        3
             9
                             D
                                    5
                                           18.2 18.28
## 4
        4
             9
                      Н
                             S
                                    4
                                           9.7
                                                  8.79
## 5
              7
                       Н
                             Ι
                                     6
                                           10.8 10.18
         5
                       C
## 6
        6
              10
                             Ι
                                     3
                                           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)</pre>
head(trees.1)
##
      Girth Height Volume
## 6
       10.8
               83
                     19.7
       11.0
                     18.2
## 8
                75
## 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



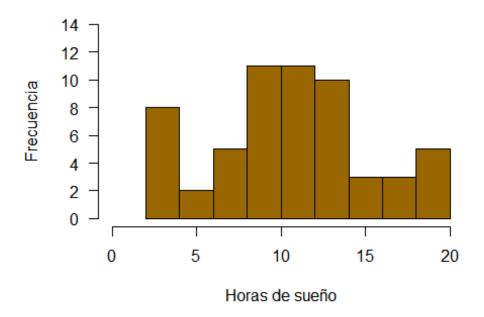
```
hist(mamiferos$total_sleep, xlim = c(0, 20), ylim = c(0,14),
    main = "Total de horas sueño de las 39 especies",
    xlab = "Horas sueño", ylab = "Frecuencia", las = 1, col = "#996600")
```

Total de horas sueño de las 39 especies

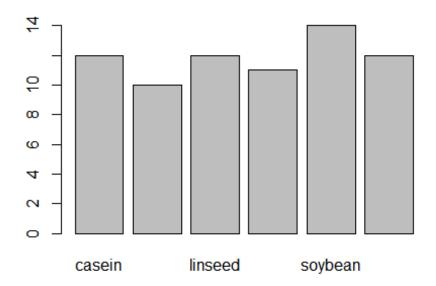


```
# Datos
hist(mamiferos$total_sleep,
    xlim = c(0,20), ylim = c(0,14), # Cambiar los limites de x & y,
    main = "Total de horas de sueño de 39 especies ", # Cambiar el
titulo,
    xlab = "Horas de sueño", # Cambiar eje de las x,
    ylab = "Frecuencia", # Cambiar eje de las y,
    las = 1, # Cambiar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

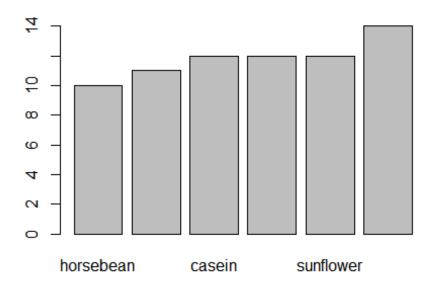
Total de horas de sueño de 39 especies



```
# Barplots
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
         379
## 62
                 casein
## 63
         260
                 casein
feeds <- table(chickwts$feed)</pre>
feeds
##
##
      casein horsebean
                          linseed meatmeal
                                               soybean sunflower
##
                               12
                                          11
                                                    14
                                                               12
                     10
barplot(feeds)
```



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



Frecuencia de alimentacion

