Lab-2.R

USUARIO

2024-05-30

```
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# 2027016
# Laborartorio 2
# 08/05/2024



# Importar datos  ------------------------------------------------------
--
library(readr)
file <- paste0
("https://raw.githubusercontent.com/mgtagle/202_Analisis_Estadistico_2020
/02680a60a88f56facda17fa38af265fb81f7f9f6/cuadro1.csv")
inventario <- read.csv(file)

# Seleccion de datos  --------------------------------------------------
--
### ALTURA
H.media <- subset(inventario, Altura <= mean(Altura))
H.16 <- subset(inventario, Altura < 16.5)
### VECINOS
V.3 <- subset(inventario, Vecinos <= 3)
V.4 <- subset(inventario, Vecinos > 4)
### DIAMETRO
Dm <- subset(inventario, Diametro < mean(Diametro))
D16 <- subset(inventario, Diametro > 16)
### ESPECIE
CR <- subset(inventario, Especie == "C")
TH <- subset(inventario, Especie == "H")
DV <- subset(inventario, Especie == "F")

# Observaciones --------------------------------------------------------
--
### DIAMETRO <= 16.9 cm
d16.9 <- subset(inventario, Diametro <= 16.9)
## d16.9 = 31 observaciones
### ALTURA > 18.5 m
a18.5 <- subset(inventario, Altura > 18.5)
## a18.5 = 2 observaciones

# Visualización datos --------------------------------------------------
--
```
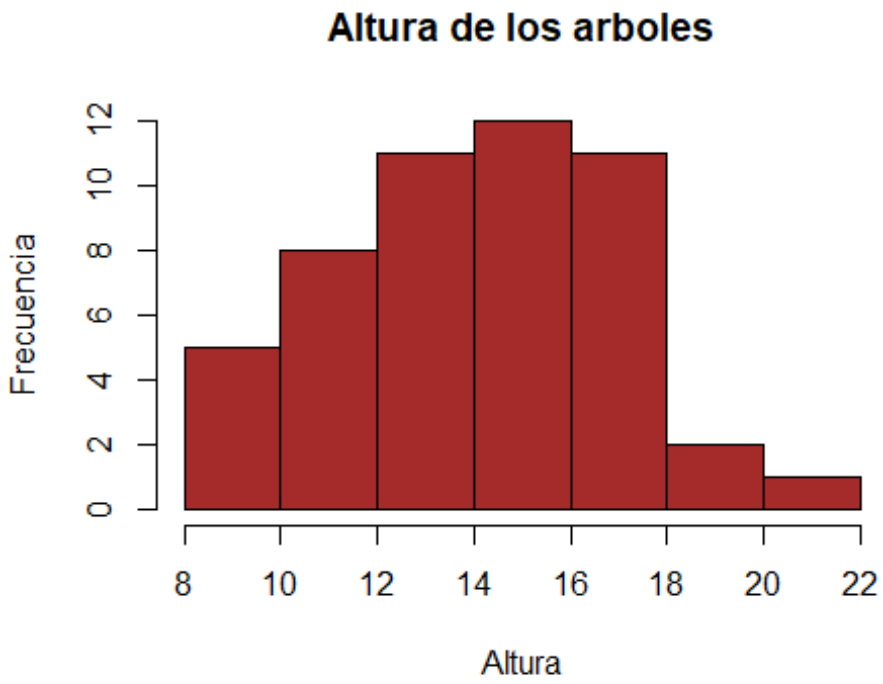
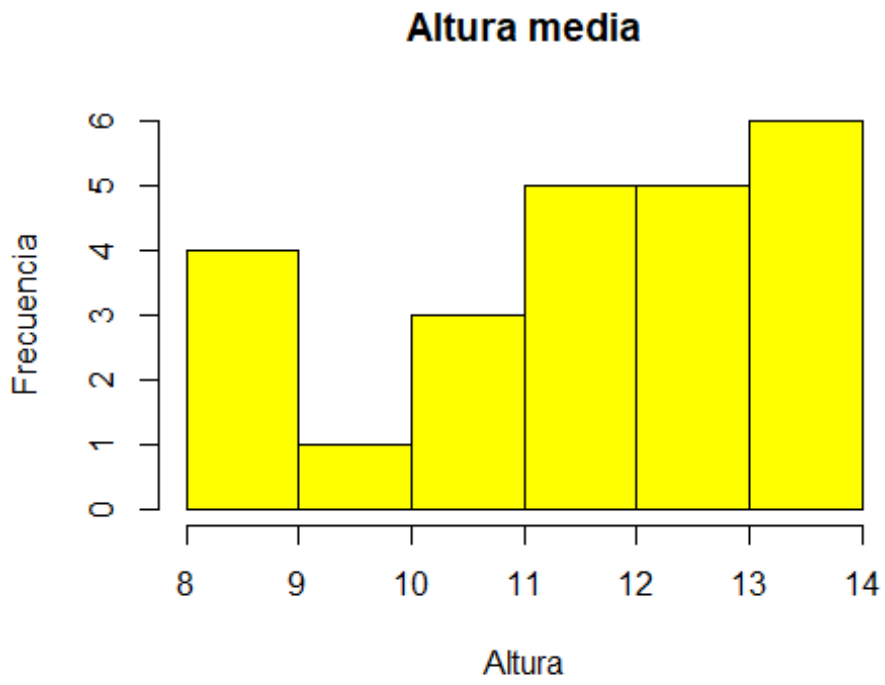
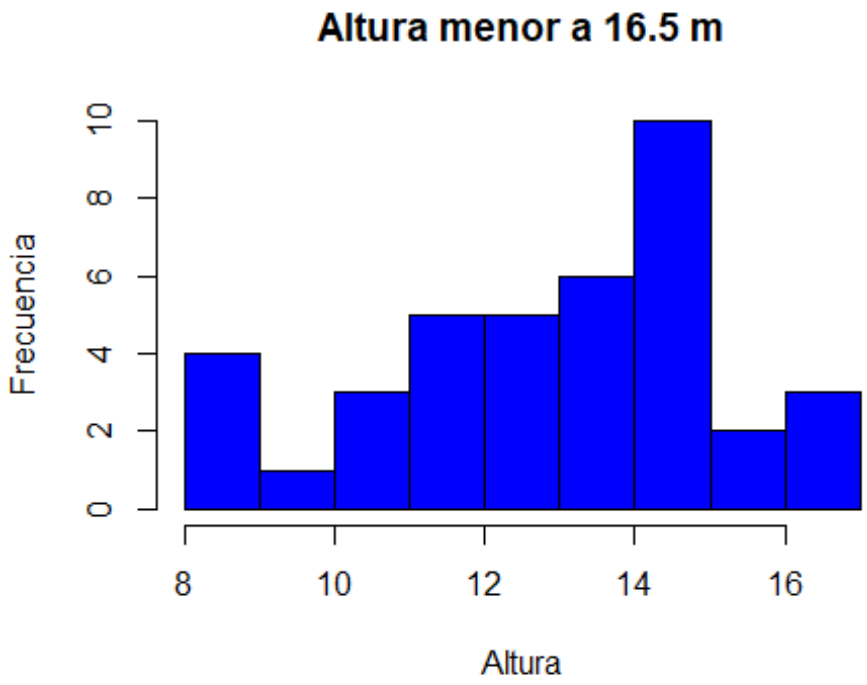

```r
### ALTURAS
hist(inventario$Altura,
     ylab = "Frecuencia",
     xlab = "Altura",
     main = "Altura de los arboles",
     col = "brown")
```



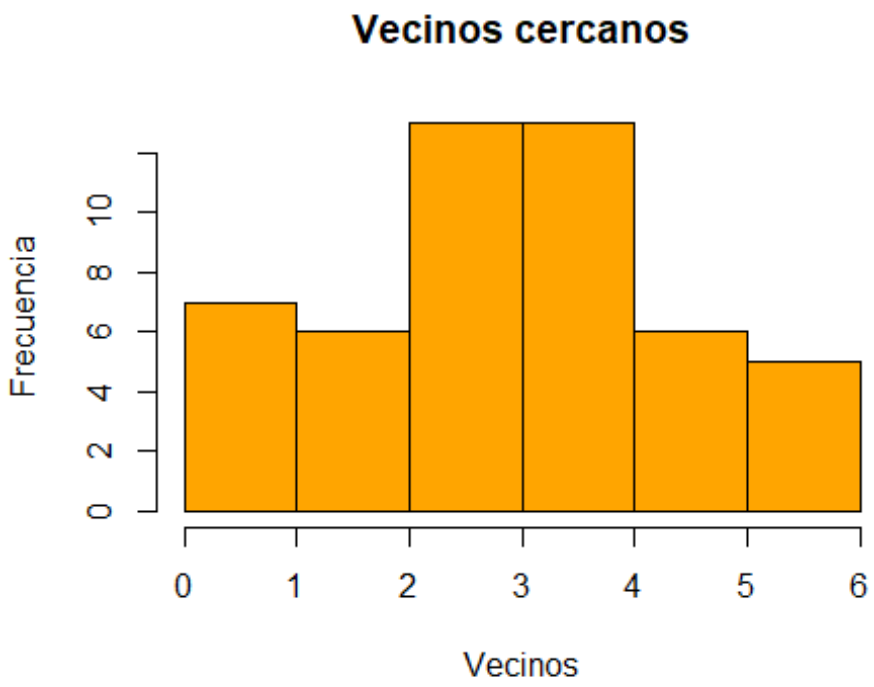

```r
hist(H.media$Altura,
     ylab = "Frecuencia",
     xlab = "Altura",
     main = "Altura media",
     col = "yellow")
```



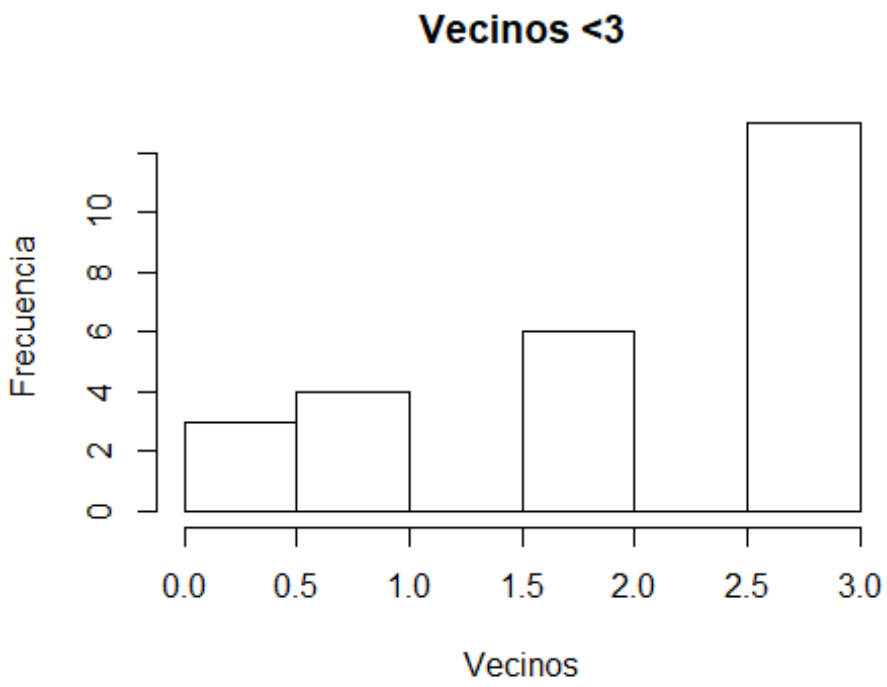

```
hist(H.16$Altura,
     ylab = "Frecuencia",
     xlab = "Altura",
     main = "Altura menor a 16.5 m",
     col = "blue")
```



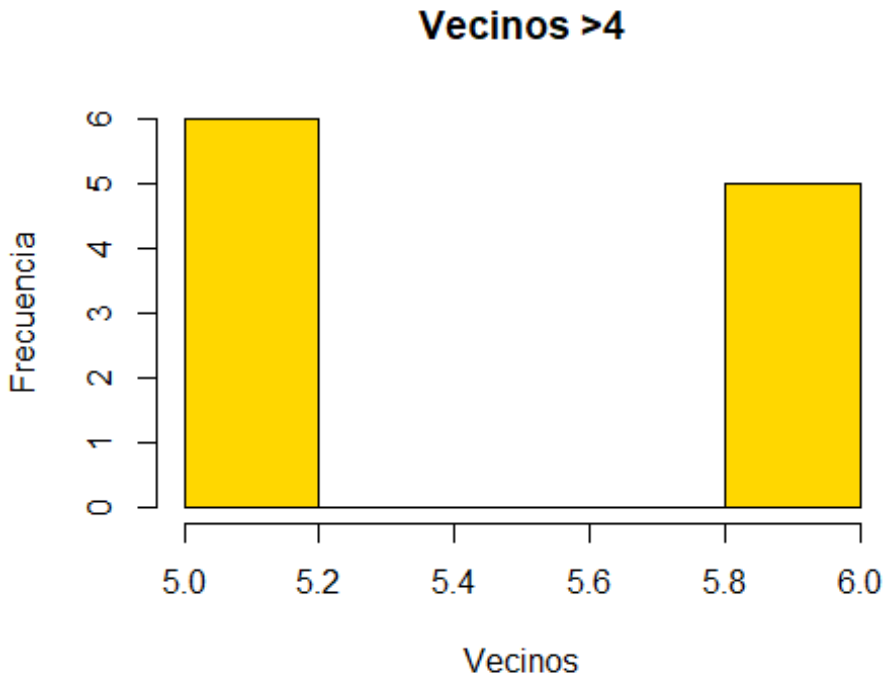

```
### VECINOS
hist(inventario$Vecinos,
     ylab = "Frecuencia",
     xlab = "Vecinos",
     main = "Vecinos cercanos",
     col = "orange")
```



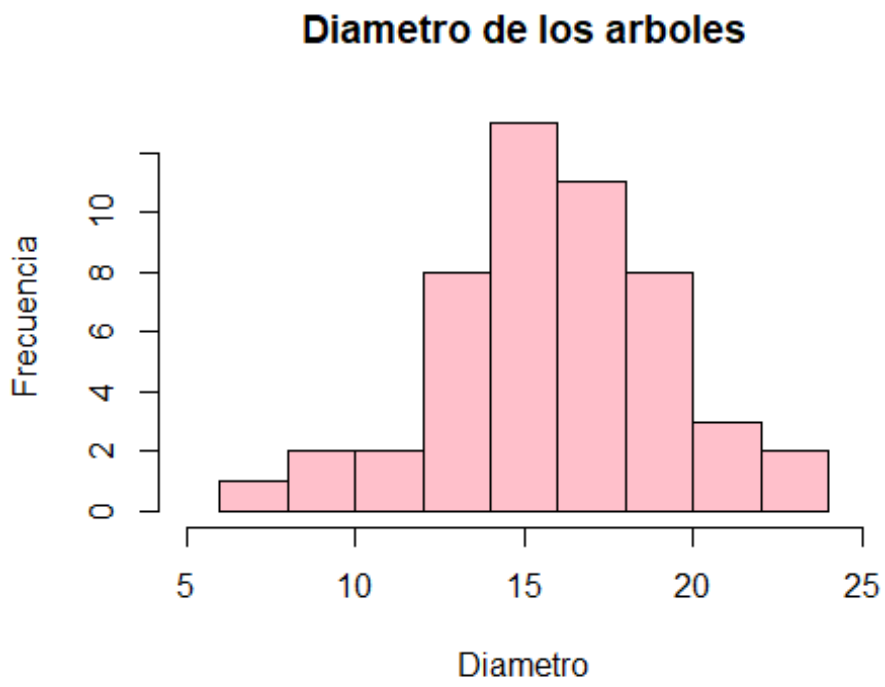

```
hist(V.3$Vecinos,
     ylab = "Frecuencia",
     xlab = "Vecinos",
     main = "Vecinos <3",
     col = "white",
     xlim = c(0,3))
```



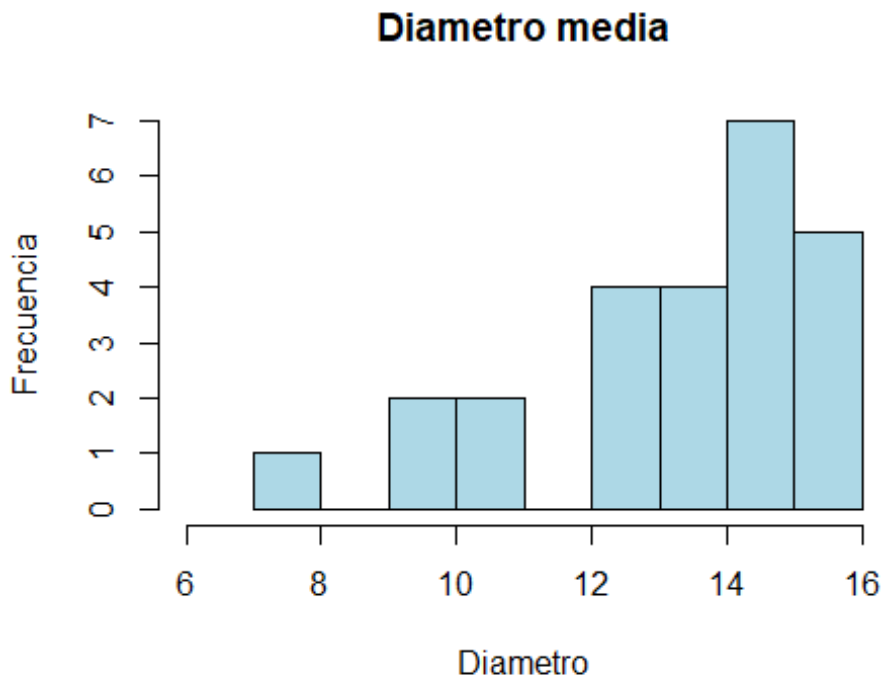

```
hist(V.4$Vecinos,
     ylab = "Frecuencia",
     xlab = "Vecinos",
     main = "Vecinos >4",
     col = "gold",
     xlim = c(5,6))
```



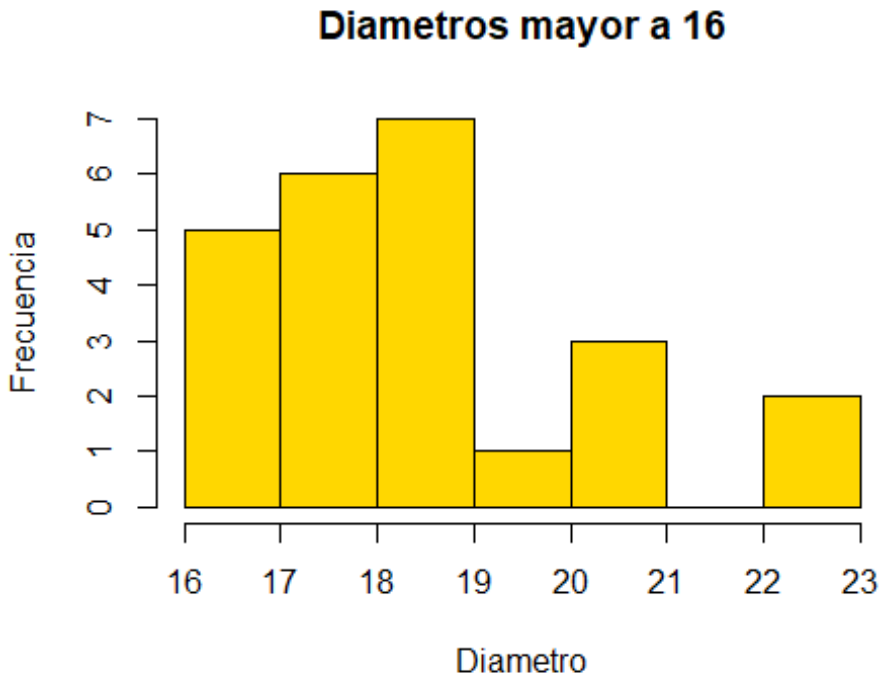

```
### DIAMETRO
hist(inventario$Diametro,
     ylab = "Frecuencia",
     xlab = "Diametro",
     main = "Diametro de los arboles",
     col = "pink",
     xlim = c(5,25))
```




```
hist(Dm$Diametro,
     ylab = "Frecuencia",
     xlab = "Diametro",
     main = "Diametro media",
     col = "lightblue",
     xlim = c(6,16))
```




```
hist(D16$Diametro,
     ylab = "Frecuencia",
     xlab = "Diametro",
     main = "Diametros mayor a 16",
     col = "gold")
```


Diametros mayor a 16
Frecuencia
0
1
2
3
4
5
6
7
16
17
18
19
20
21
22
23
Diametro