Tarea2

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```r
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#Fecha: 02.02.21
# Tarea 2

DBH_1 <-
read.csv("https://raw.githubusercontent.com/Caarolinee/PrincipiosEstadist
ica2021/main/DBH_1.csv")

Conjunto <-
read.csv("https://raw.githubusercontent.com/Caarolinee/PrincipiosEstadist
ica2021/main/DBH_1.csv")

head(Conjunto)

##   Arbol Fecha Especie Posicion 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

# Altura -----------------------------------------------------------
--

Altura <- c(14.78, 17.07, 18.28, 8.79, 10.18, 14.9, 15.34, 17.22, 15.15,
14.66,
            17.43, 17.45, 14.18, 13.4, 10.4, 11.52, 14.61, 21.46, 17.82,
11.38,
            8.5, 12.8, 18.71, 14.48, 14.81, 12.01, 11.70, 16.03, 14.46,
8.47,
            11.22, 12.34, 16.79, 16.06, 13.2, 14.3, 16.84, 13.84, 11.31,
13.2,
            13.75, 14.6, 12.56, 10.88, 13.93, 12.68, 10, 8.69, 16.73,
16.25)

mean(Altura)

## [1] 13.9432
```

```r
H.media <- subset (Altura, DBH_1 <= 13.9432)

H.16 <- subset(Altura, DBH_1 < 16.5)

# Vecinos --------------------------------------------------------------
--

Vecinos <- c(4, 3, 5, 4, 6, 3, 2, 2, 4, 5, 3, 6, 2, 2, 4, 3, 0, 1, 4, 3,
5, 4, 1,
             4, 2, 4, 3, 3, 0, 1, 3, 5, 4, 6, 4, 2, 0, 3, 4, 6, 3, 3, 4,
5, 4, 3,
             6, 5, 1, 3)

Vecinos3 <- subset(Vecinos, DBH_1 <= 3)

Vecinos4 <- subset(Vecinos, DBH_1 <= 4)

# Diametro -------------------------------------------------------------
------

Diametro <- c(15.3, 17.8, 18.2, 9.7, 10.8, 14.1, 17.1, 20.6, 18.2, 16.1,
14.2, 14.8,
              19.1, 16.7, 18.9, 12.4, 17.3, 22.7, 15.1, 17.7, 13.4, 16.2,
18.5, 15,
              18.8, 15.8, 16.1, 15.4, 17.8, 18.5, 14.1, 14.8, 15.5, 13.8,
13, 18.2,
              22.3, 17.8, 13.1, 12.8, 13.3, 15.6, 16.6, 13, 10.2, 14.4,
7.7, 9.9,
              20.4, 20.9)

mean(Diametro)

## [1] 15.794

DBHmedia <- subset(Diametro, DBH_1 < 15.794)

DBH16 <- subset(Diametro, DBH_1 < 16)

# Especie --------------------------------------------------------------
--

Especie <- c ("F, F, C, H, H, C, C, C, F, F, H, H, F, C, C, H, H, F, C,
              C, C, C, F, F, F, H, H, C, C, C, C, C, F, F, F, H, H, H, C,
C, C, F, H,
              C, C, F, C, C, H, H, Cedro Rojo, Tsuga Heterófila,
Douglasia verde")

Especie <- subset(Especie, DBH_1 <= 16.9)
```
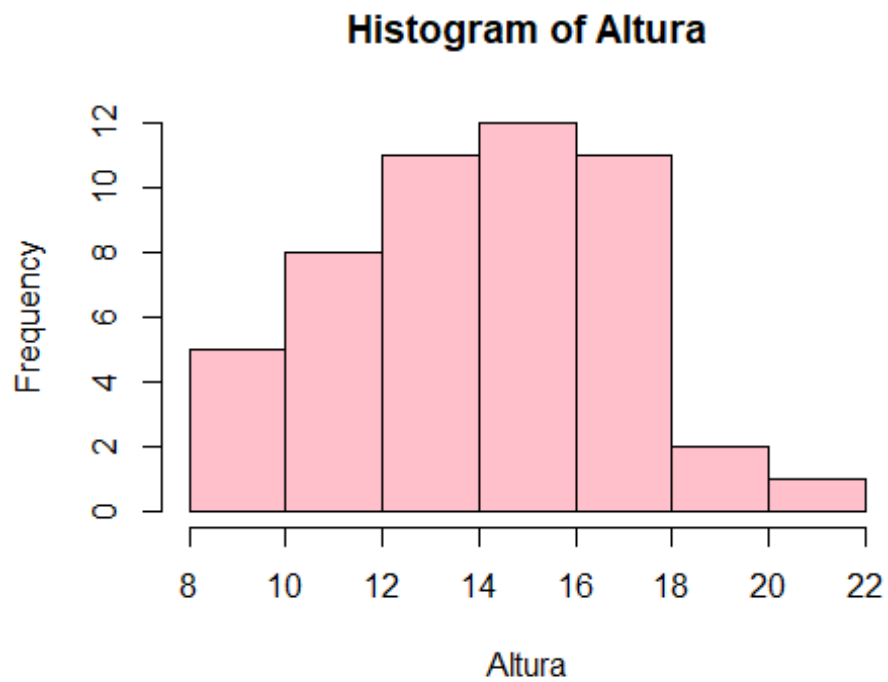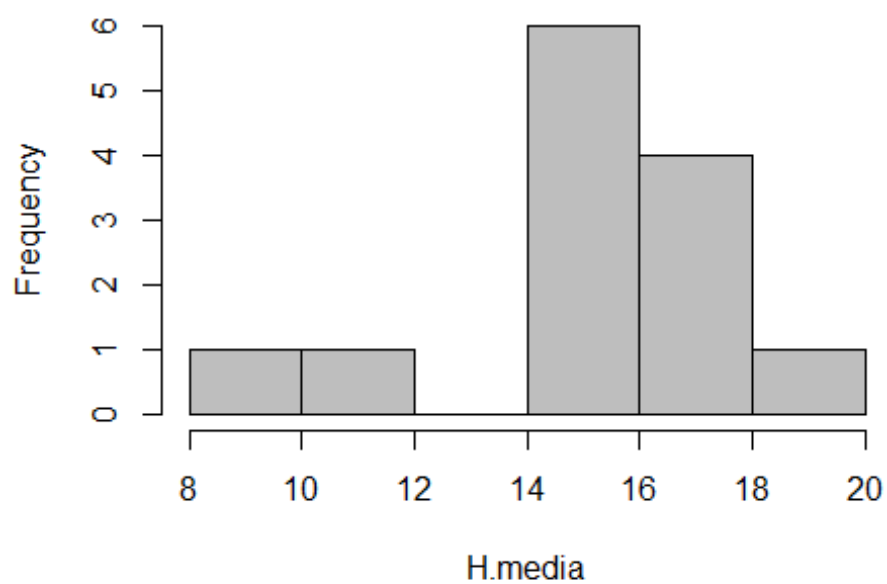
```r
Especie <- subset(Especie, DBH_1 > 18.5)

# Gráficas ---------------------------------------------------------
--

hist(Altura, col = "pink")
```

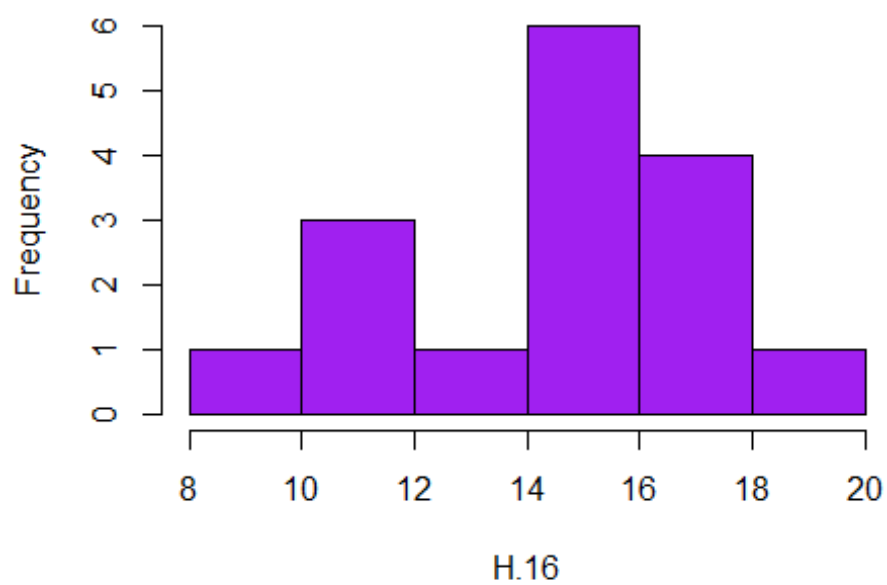**Histogram of Altura**


```r
hist(H.media, col = "gray")
```

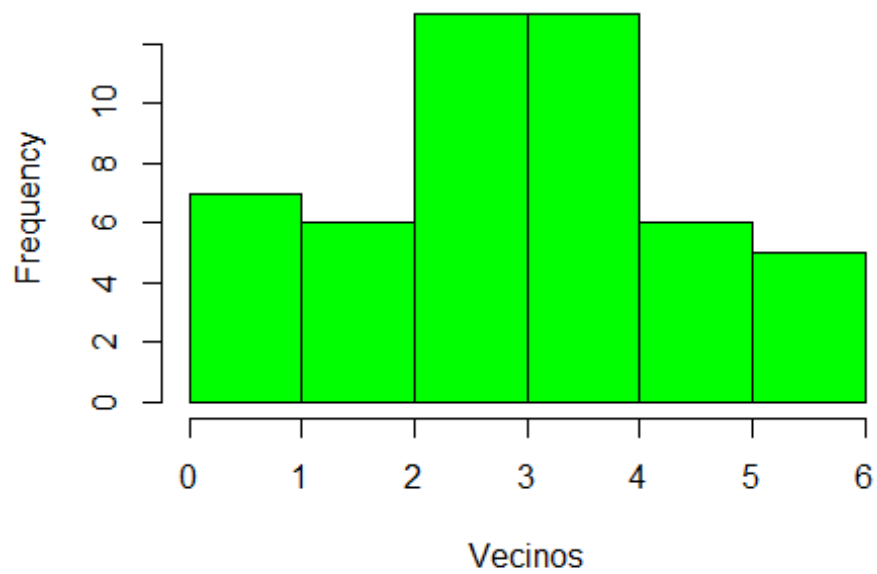## Histogram of H.media


```
hist(H.16, col = "purple")
```
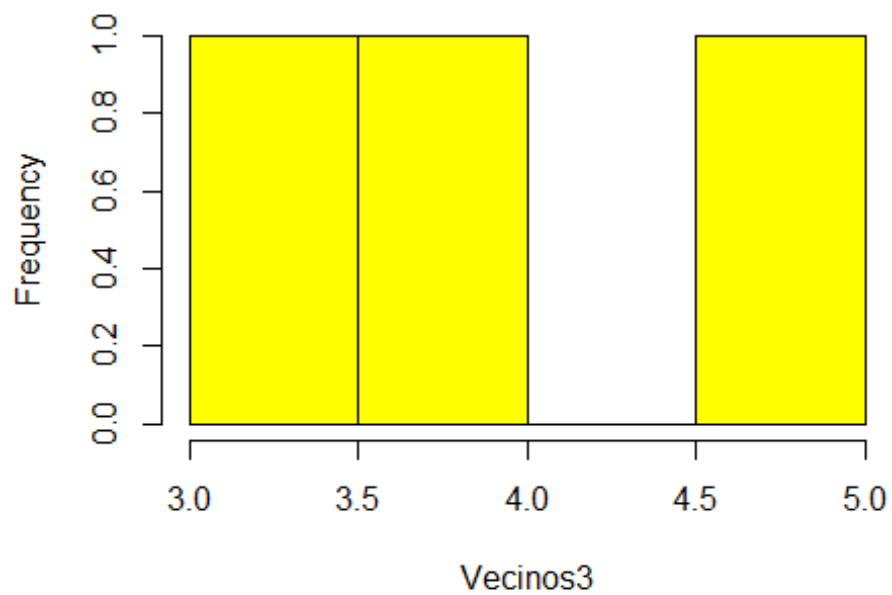
Histogram of H.16


```
hist(Vecinos, col = "green")
```
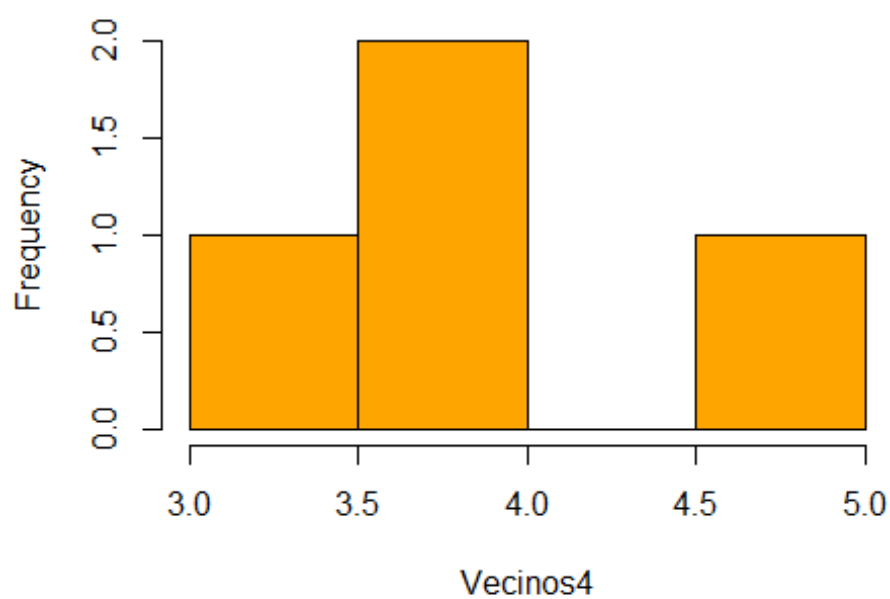
Histogram of Vecinos


```
hist(Vecinos3, col = "yellow")
```
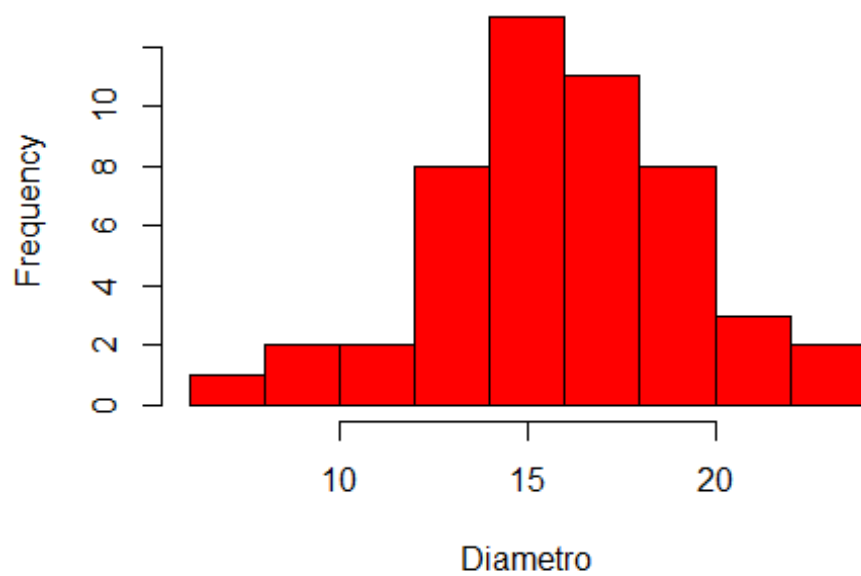
Histogram of Vecinos3


```
hist(Vecinos4, col = "orange")
```
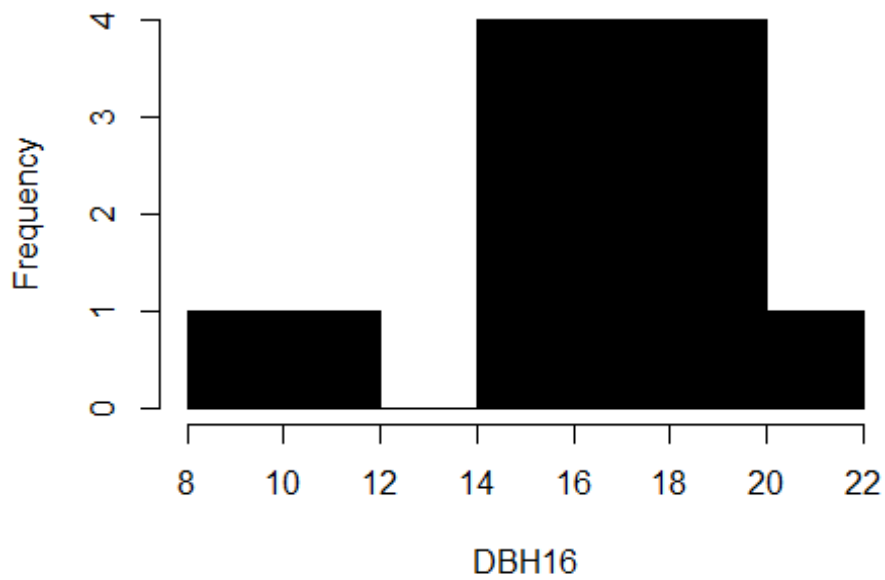
Histogram of Vecinos4


```
hist(Diametro, col = "red")
```
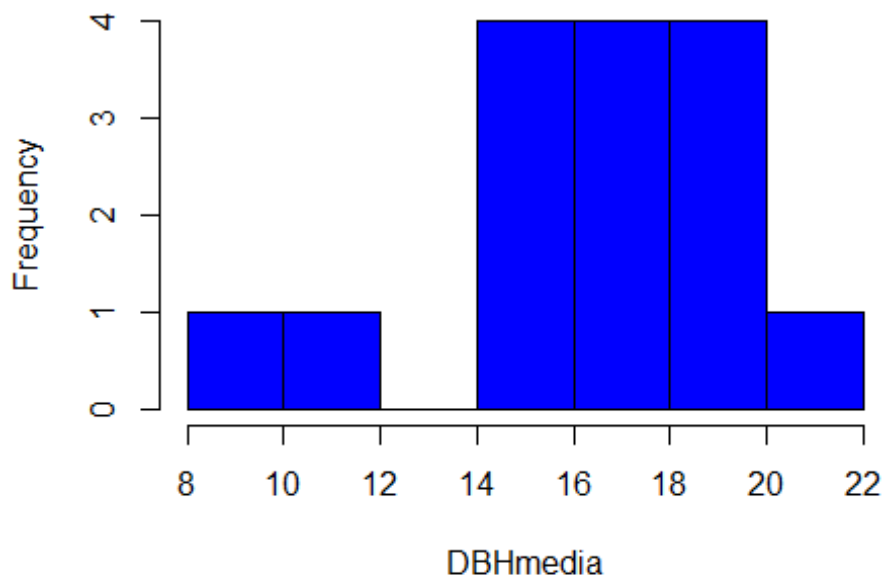
Histogram of Diametro


```
hist(DBH16, col = "black")
```

Histogram of DBH16

```
hist(DBHmedia, col = "blue")
```


Histogram of DBHmedia

```
# Estadísticas basicas ----------------------------------------------------
--
```

```
mean(Altura)
```
[1] 13.9432
```
sd(Altura)
```
[1] 2.907177
```
mean(H.media)
```
[1] NA
```
sd(H.media)
```
[1] NA
```
mean(H.16)
```
[1] NA
```
sd(H.16)
```
[1] NA
```
mean(Vecinos)
```
[1] 3.34
```
sd(Vecinos)
```
[1] 1.598596
```
mean(Vecinos3)
```
[1] NA
```
sd(Vecinos3)
```
[1] NA
```
mean(Vecinos4)
```
[1] NA
```
sd(Vecinos4)
```
[1] NA
```
mean(Diametro)
```
[1] 15.794
```
sd(Diametro)
```
[1] 3.227017

```
mean(DBHmedia)
```

```
## [1] NA
```

```
sd(DBHmedia)
```

```
## [1] NA
```

```
mean(DBH16)
```

```
## [1] NA
```

```
sd(DBHmedia)
```

```
## [1] NA
```