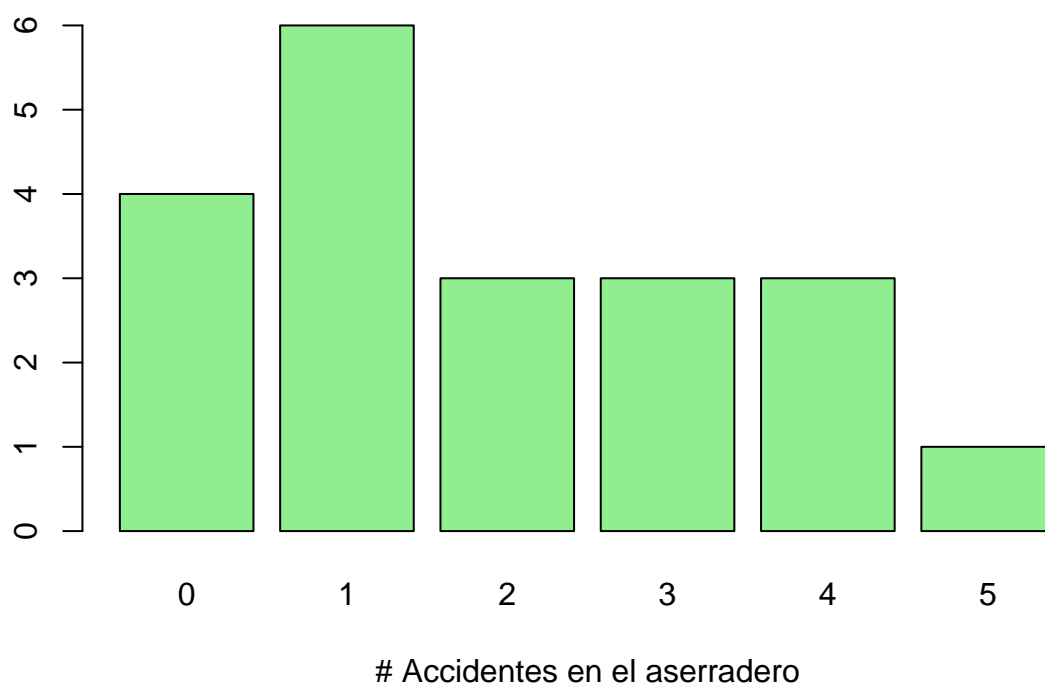


Tarea-2.R

Usuario

2020-02-20

```
# Tarea.02-Asignación de datos -----  
  
# Uriel Sarmiento Véliz - -1732196-mx -----  
  
# 19/02/2020 - 20/02/2020 -----  
  
library(plyr)  
accidentes <- c(0,1,0,2,2,1,4,3,0,1,5,1,2,3,4,0,1,1,3,4)  
acc <- count(accidentes)  
acc  
  
##   x freq  
## 1 0    4  
## 2 1    6  
## 3 2    3  
## 4 3    3  
## 5 4    3  
## 6 5    1  
  
acc$rf <- acc$freq/sum(acc$freq)*100  
acc  
  
##   x freq rf  
## 1 0    4 20  
## 2 1    6 30  
## 3 2    3 15  
## 4 3    3 15  
## 5 4    3 15  
## 6 5    1  5  
  
barplot(acc$freq, names.arg = acc$x, xlab = "# Accidentes en el aserradero",  
        col = "lightgreen")
```



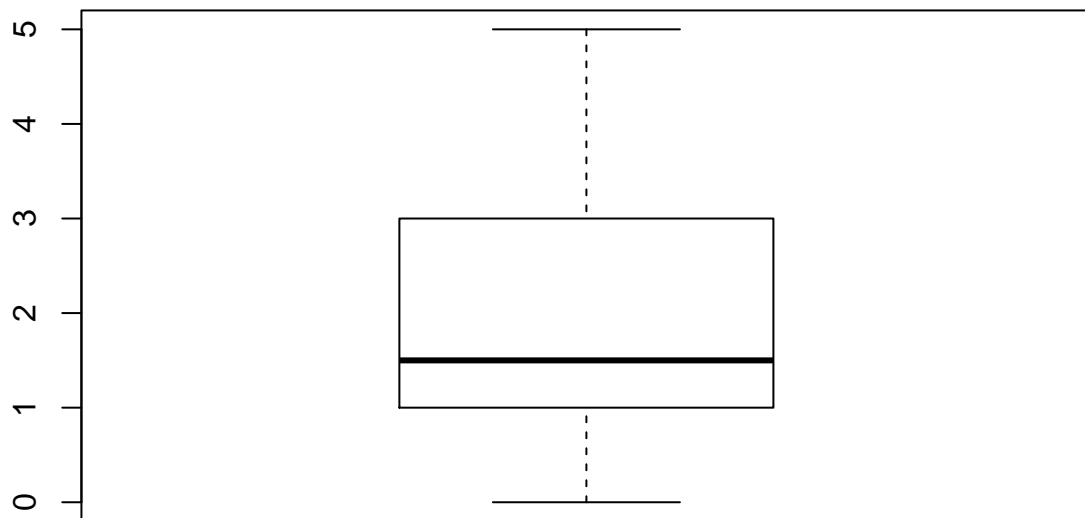
```
mean(accidentes)
```

```
## [1] 1.9
```

```
sum(accidentes)
```

```
## [1] 38
```

```
boxplot(accidentes)
```



¿Cuál es el promedio de accidentes al mes? -----

1.9 es el promedio de accidentes al mes -----

38 accidentes en proporción -----

Ejercicio #2 -----

```
especies <- c("F", "H", "F", "C", "F", "A", "H", "F",
              "H", "C", "A", "C", "F", "H", "H", "H",
              "F", "H", "A", "C", "F", "H", "H", "F")
```

```
esp <- count(especies)
```

```
esp
```

```
##   x freq
```

```
## 1 A   3
```

```
## 2 C   4
```

```
## 3 F   8
```

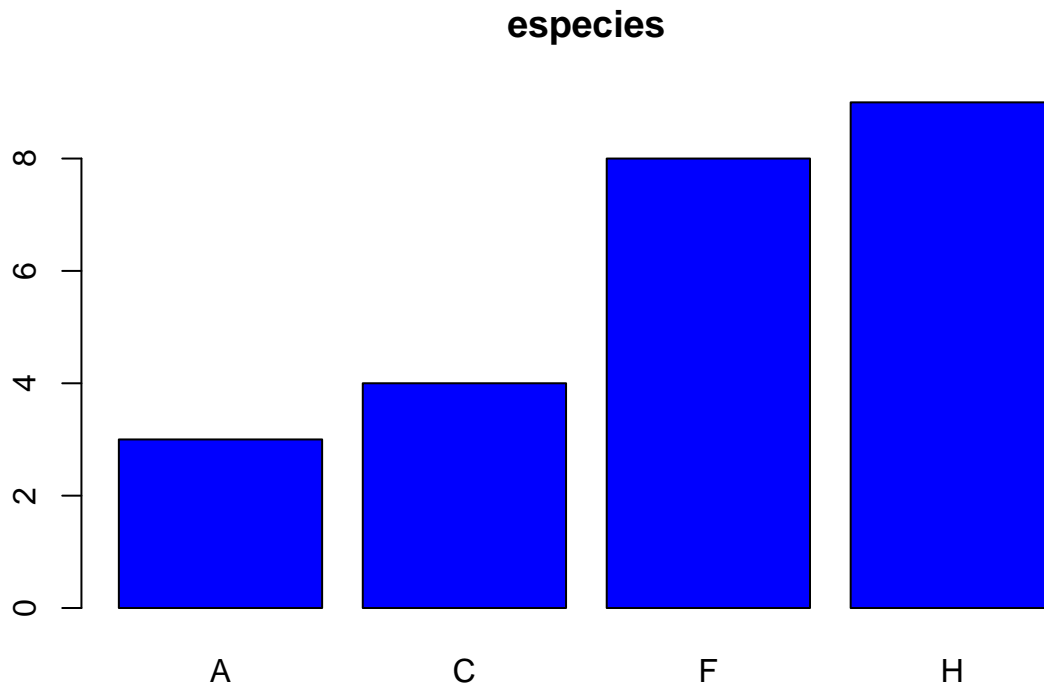
```
## 4 H   9
```

```
esp$fr <- esp$freq/sum(esp$freq)*100
```

```
esp
```

```
##   x freq      fr
## 1 A    3 12.50000
## 2 C    4 16.66667
## 3 F    8 33.33333
## 4 H    9 37.50000
```

```
barplot(esp$freq, names.arg = esp$x, main = "especies", col = "blue")
```



```
# ¿Que especie presenta mayor proporción (%)? -----
```

```
# La especie que presenta mayor proporción es la Tsuga heterófila -----
```

```
# Con un porcentaje de 37.5% -----
```

```
# Ejercicio #3 -----
```

```
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
```

```
.vc <- table(conjunto$Vecinos,conjunto$Especie)
```

```
.vc1 <- addmargins(as.table(.vc))
```

```
.vc1
```

```
##
##      C  F  H Sum
##    0   1  0  2   3
##    1   1  2  1   4
##    2   3  2  1   6
##    3   5  3  5  13
##    4   5  5  3  13
##    5   5  1  0   6
##    6   2  1  2   5
##    Sum 22 14 14  50
```

```
vecyesp <- table(conjunto$vecinos,conjunto$especies)
vecyesp
```

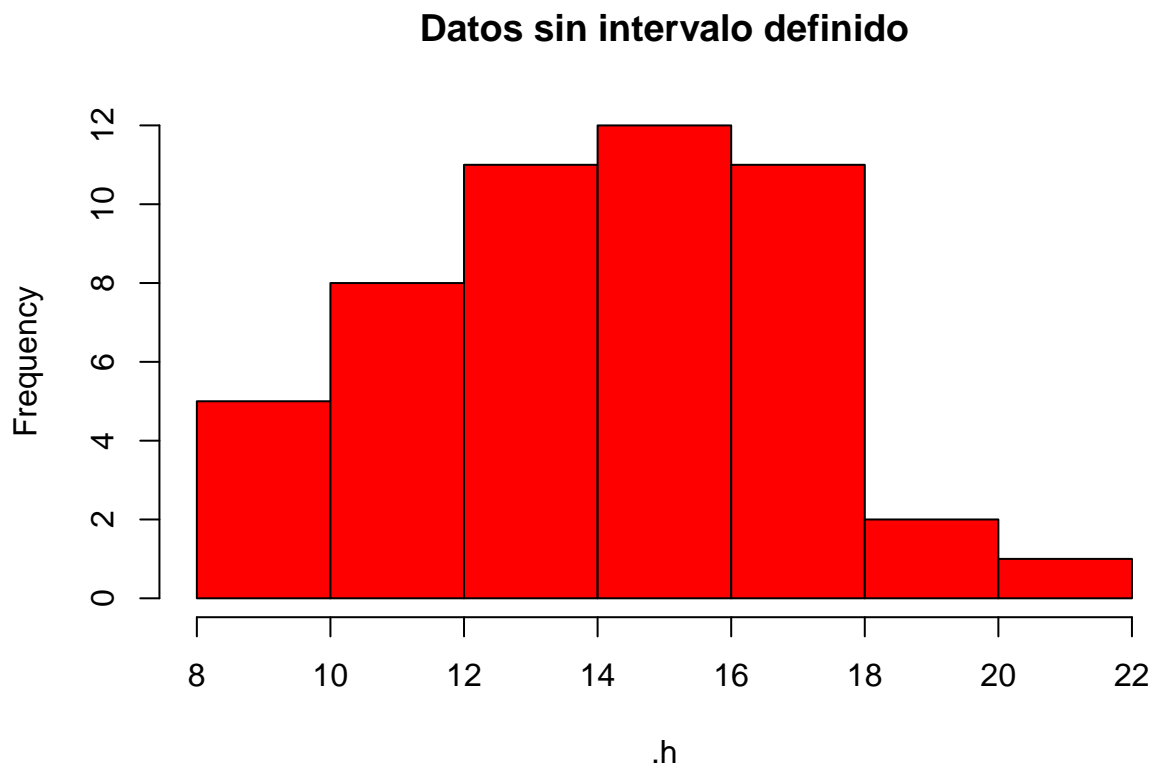
```
## < table of extent 0 x 0 >
```

```
# Ejercicio #4 -----
```

```
.h <- conjunto$Altura
range(.h)
```

```
## [1]  8.47 21.46
```

```
hist(.h, main = "Datos sin intervalo definido", col = "red")
```



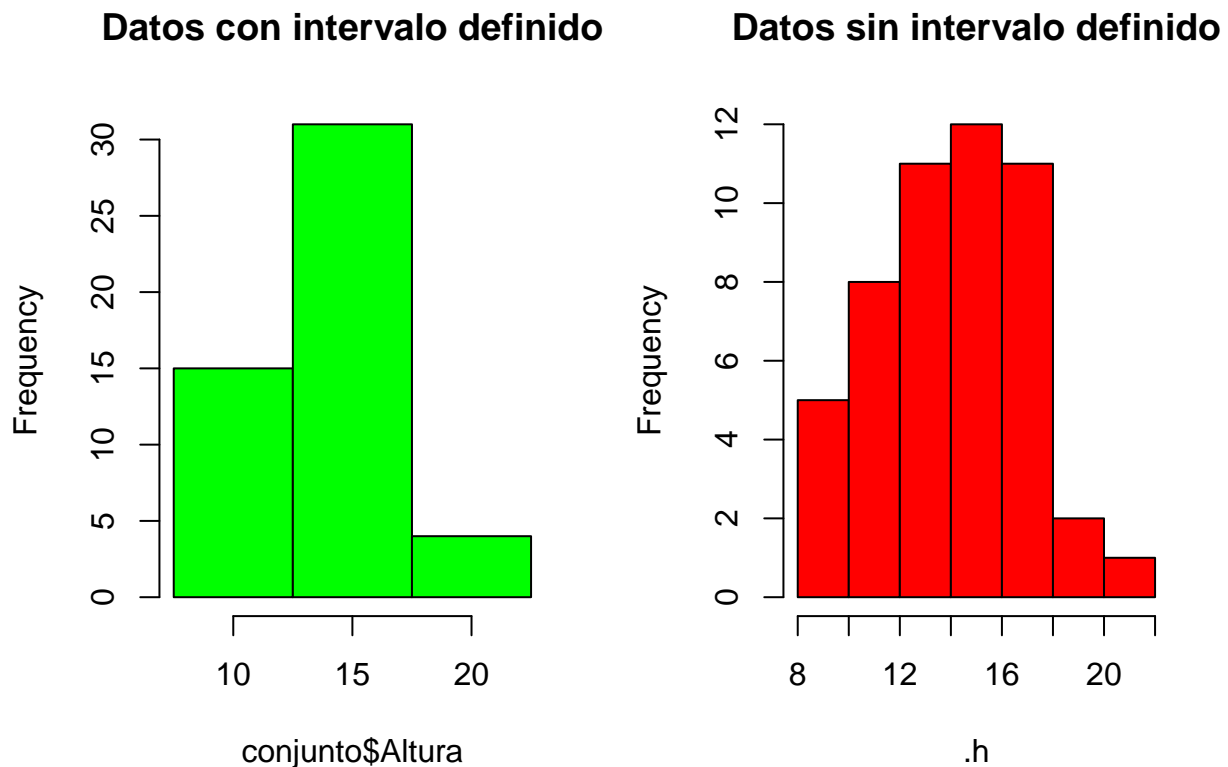
```
Intervalo <- seq(7.5, 22.5, by=5)
Intervalo
```

```
## [1]  7.5 12.5 17.5 22.5
```

```
.h.table <- cut(.h, Intervalo)
table(.h.table)

## .h.table
## (7.5,12.5] (12.5,17.5] (17.5,22.5]
##          15          31           4

par(mfrow=c(1,2))
hist(conjunto$Altura, breaks = Intervalo,
     main = "Datos con intervalo definido", col = "green")
hist(.h, main = "Datos sin intervalo definido", col = "red")
```



```
par(mfrow=c(1,1))
.h.prop <- cbind(table(.h.table))
.h.per <- round(prop.table(.h.prop)*100,2)
```

Ejercicio 5 -----

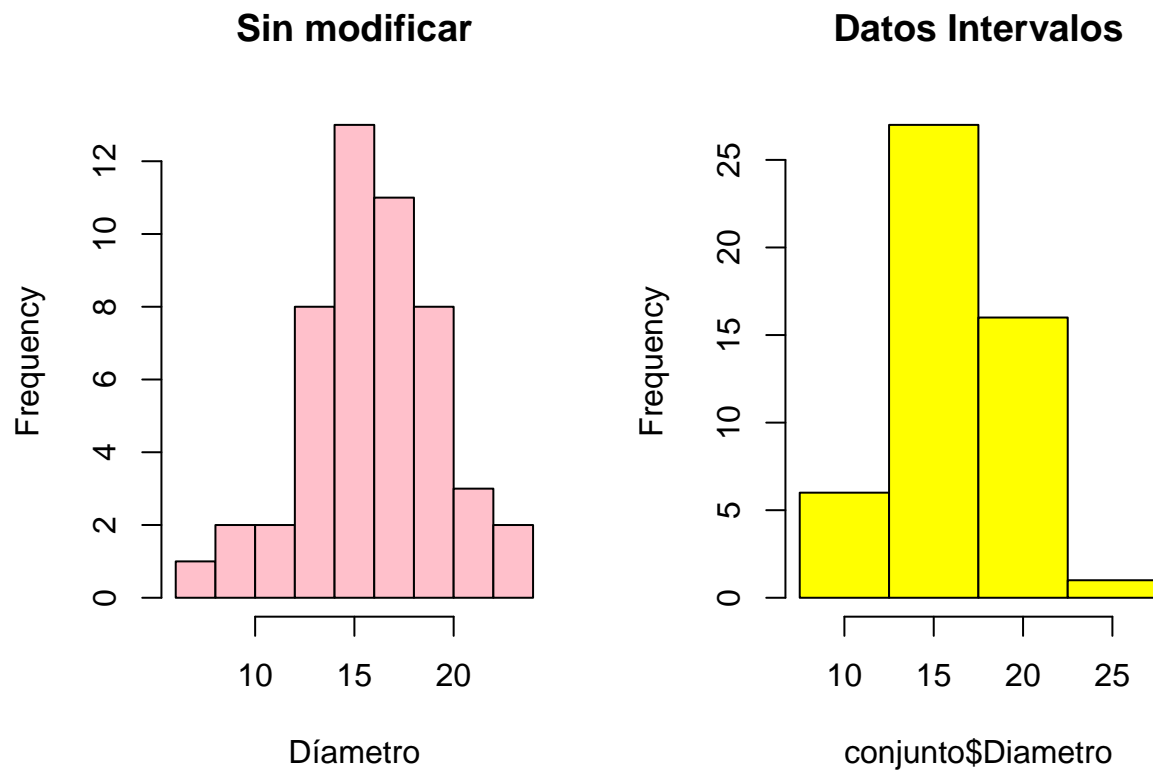
```
diametro <- conjunto$Diametro
range(diametro)
```

```
## [1] 7.7 22.7
```

```
Intervalo <- seq(7.5, 27.5, by= 5)
```

```
par(mfrow=c(1,2))
hist(conjunto$Diametro, main = "Sin modificar", xlab = "Díametro", col = "pink")
```

```
hist(conjunto$Diametro, breaks = Intervalo, main = "Datos Intervalos", col = "yellow")
```



```
par(mfrow=c(1,1))
```