Tarea-2.R

Usuario

2020-02-19

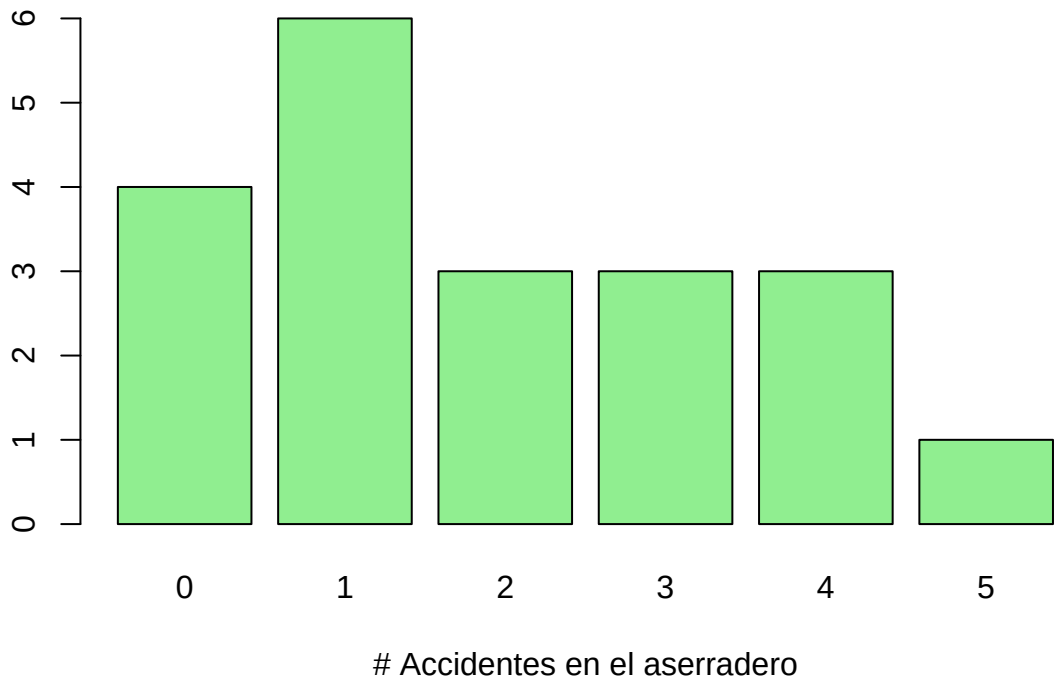
```
library(plyr)
accidentes <- c(0,1,0,2,2,1,4,3,0,1,5,1,2,3,4,0,1,1,3,4)
acc <- count(accidentes)
acc
```

```
##   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")
```



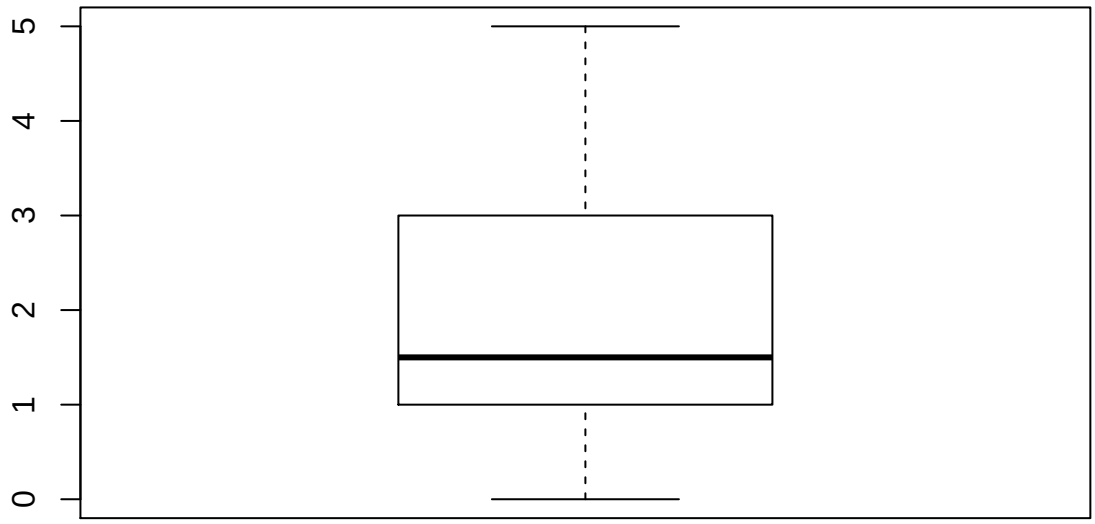

```r
mean(accidentes)
```

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

```r
sum(accidentes)
```

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

```r
boxplot(accidentes)
```



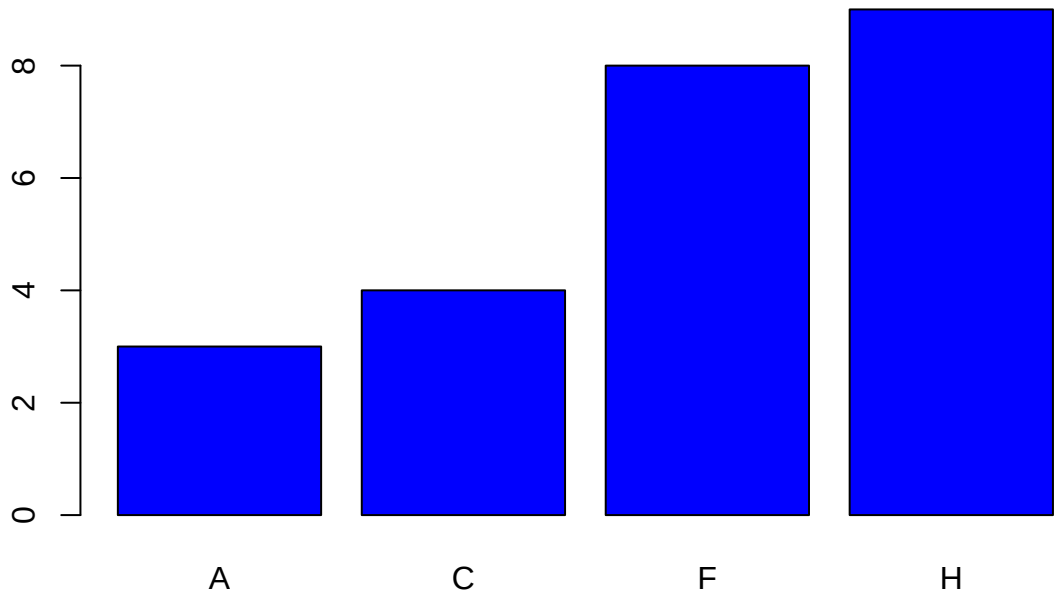

```
# Ejercicio #2 ------------------------------------------------------------


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
```

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

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

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

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

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

```
Intervalo <- seq(8.47, 21.46, by=5)
Intervalo
```

```
## [1]  8.47 13.47 18.47
```

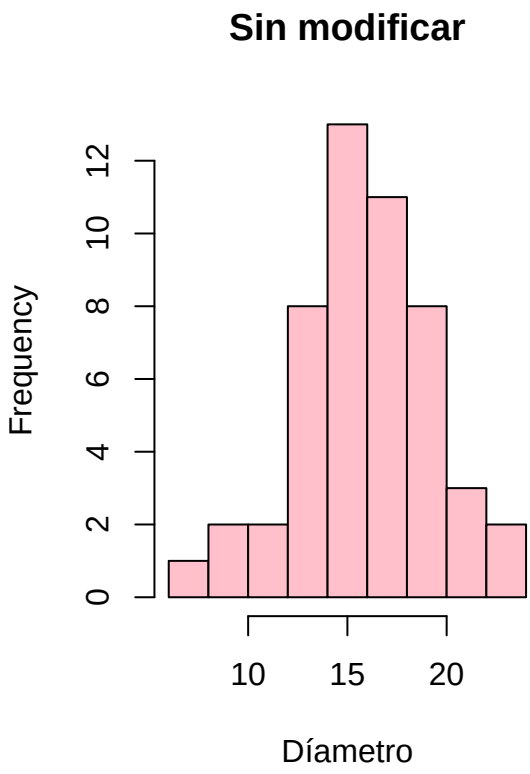
```
Altura.table <- cut(Altura, Intervalo)
table(Altura.table)
```

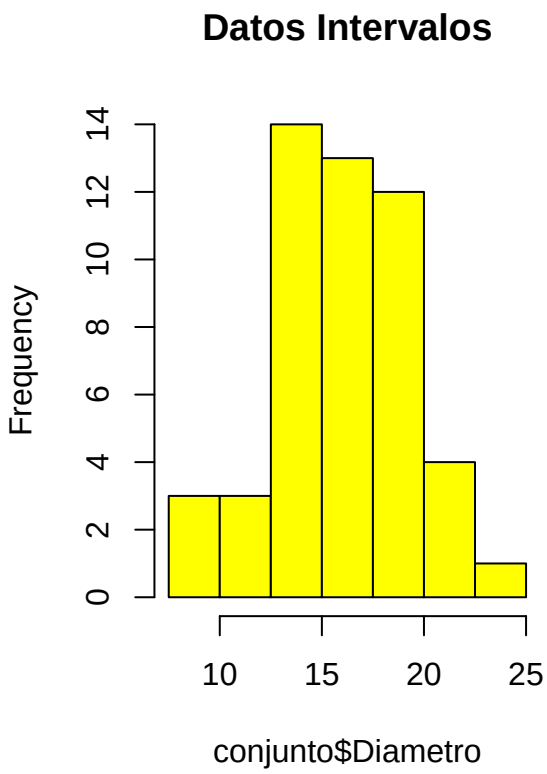
```
## Altura.table
## (8.47,13.5] (13.5,18.5]
##          20          27
```

```
Altura.prop <- cbind(table(Altura.table))
Altura.per <- round(prop.table(Altura.prop)*100,2)


# Ejercicio 5 ------------------------------------------------------------

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

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

```
Intervalo <- seq(7.5, 25.5, by= 2.5)

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))
```