tarea02.R

Usuario

2020-02-19

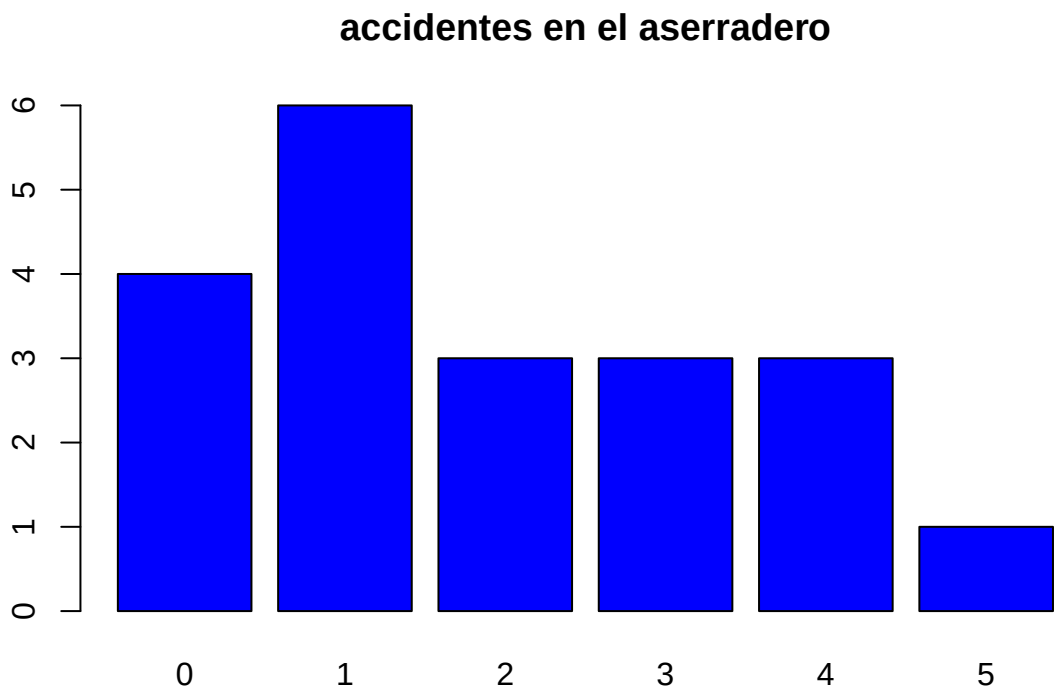
```
library(plyr)
accidentes <- c(0,1,0,2,2,1,4,3,0,1,5,1,2,3,4,0,1,1,3,4)
acc <- count(accidentes)
acc
```

```
##   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, main = "accidentes en el aserradero",
        col = "blue")
```



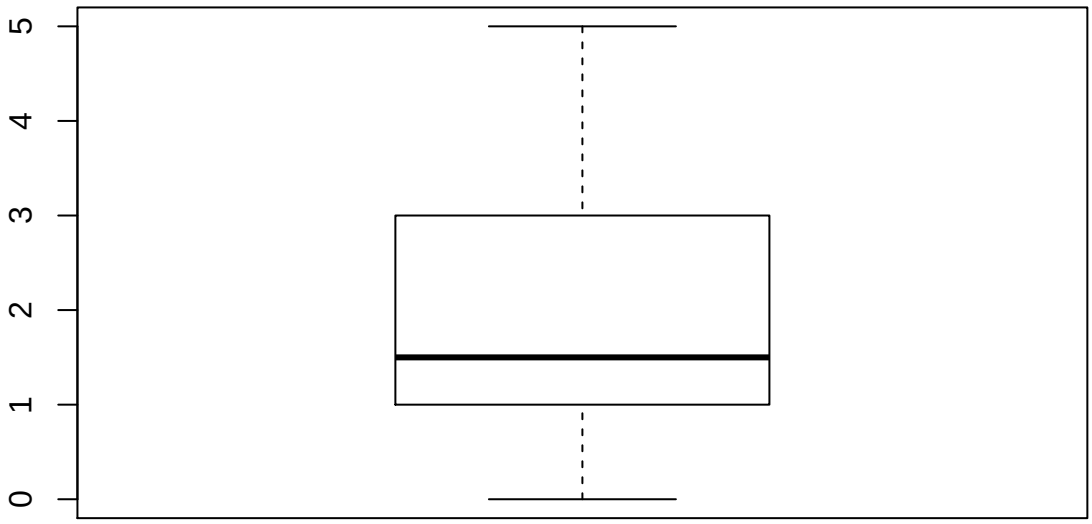

```
mean(accidentes)
```

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

```
sum(accidentes)
```

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

```
boxplot(accidentes)
```



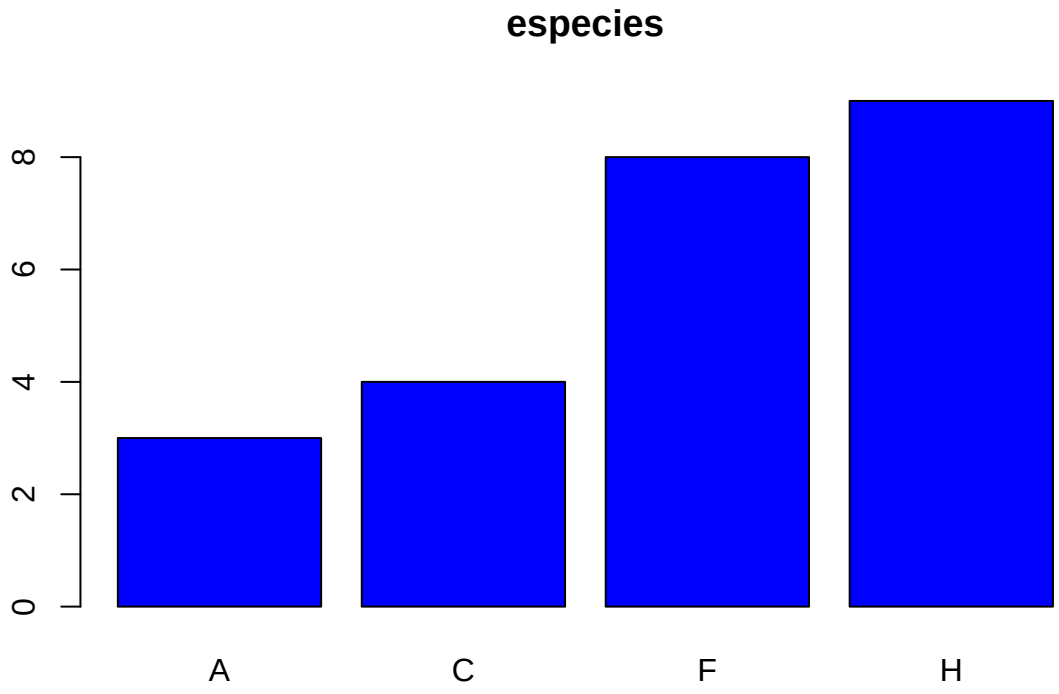

```
# ejercicio 2 ------------------------------------------------------------

especie <- 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(especie)
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
```

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




```r
# 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
```

```r
vecyesp <- table(conjunto$Vecinos, conjunto$Especie)
vecyesp
```

```
##
##     C F H
##   0 1 0 2
##   1 1 2 1
##   2 3 2 1
##   3 5 3 5
##   4 5 5 3
##   5 5 1 0
##   6 2 1 2
```

```r
# ejercicio 4 ------------------------------------------------------------

altura <- (conjunto$Altura)
```

```r
range(altura)
```

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

```r
Intervalo <- seq(8, 21, by=4)
Intervalo
```

```
## [1]  8 12 16 20
```

```r
altura.table <- cut(altura, Intervalo)
table(altura.table)
```

```
## altura.table
##  (8,12] (12,16] (16,20]
##      13      23      13
```

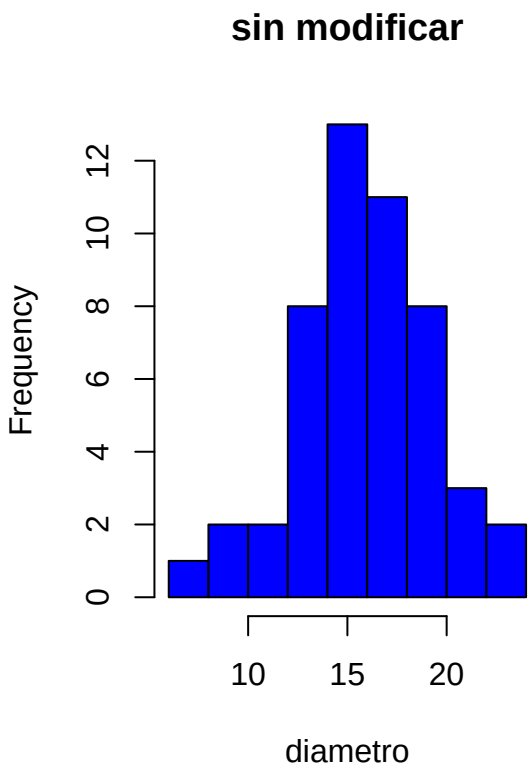
```r
altura.prop <- cbind(table(altura.table))
altura.per <- round(prop.table(altura.prop)*100,2)


# ejercicio 5 ------------------------------------------------------------

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

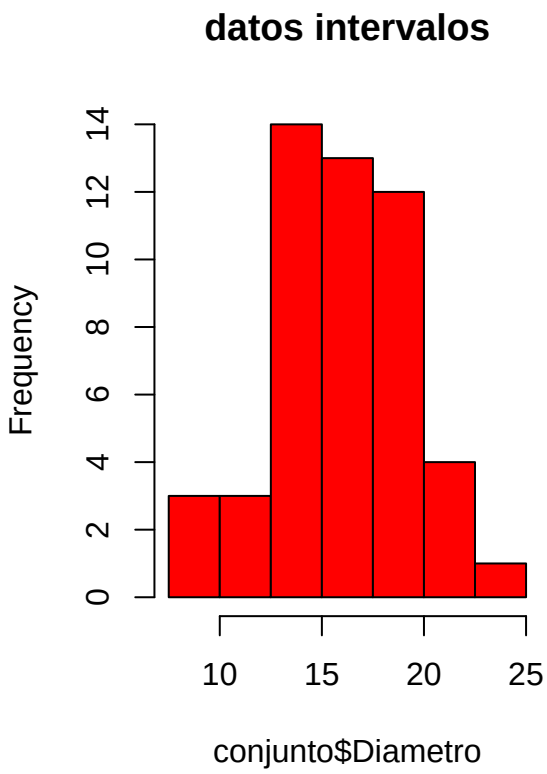
```
## [1]  7.7 22.7
```

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

```
## [1]  7.5 10.0 12.5 15.0 17.5 20.0 22.5 25.0
```

```r
par(mfrow=c(1,2))
hist(conjunto$Diametro, main = "sin modificar", xlab = "diametro", col = "blue")
hist(conjunto$Diametro, breaks = Intervalo, main = "datos intervalos", col = "red")
```






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