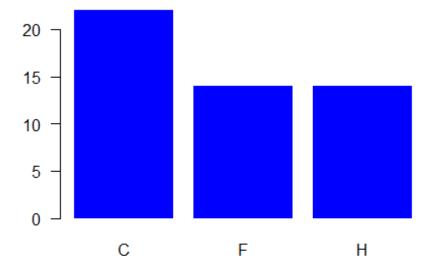
## Clase\_S05\_D1.R

isa r

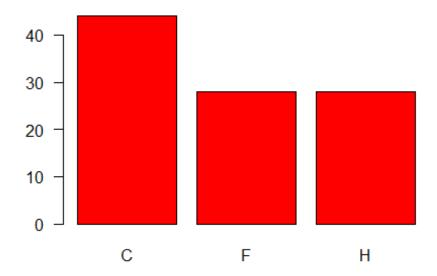
2022-05-20

```
# Amanda
# Semana 5
# 16/02/2022
url <- paste0("https://raw.githubusercontent.com/mgtagle/",</pre>
"PrincipiosEstadistica2021/main/cuadro1.csv")
inventario <- read.csv(url)</pre>
summary(inventario)
##
       Arbol
                       Fecha
                                     Especie
                                                        Posicion
   Min. : 1.00
                   Min. : 2.00
                                   Length:50
                                                      Length:50
   1st Qu.:13.25
                   1st Qu.:12.00
                                   Class :character
                                                      Class :character
                                                      Mode :character
## Median :25.50
                   Median :16.00
                                   Mode :character
## Mean :25.48
                   Mean :15.94
   3rd Qu.:37.75
                   3rd Qu.:20.75
##
   Max.
          :50.00
                   Max.
                          :25.00
##
      Vecinos
                    Diametros
                                      Altura
##
   Min.
          :0.00
                  Min. : 7.70
                                  Min. : 8.47
   1st Qu.:2.25
                  1st Qu.:13.88
                                  1st Qu.:11.78
## Median :3.00
                  Median :15.70
                                  Median :14.24
## Mean :3.34
                  Mean :15.79
                                  Mean :13.94
  3rd Qu.:4.00
                  3rd Qu.:18.10
                                  3rd Qu.:16.05
##
## Max. :6.00
                  Max.
                         :22.70
                                  Max.
                                         :21.46
inventario$Especie <- as.factor(inventario$Especie) # el comando</pre>
as.factor convierte
summary(inventario)
                                                                Vecinos
##
       Arbol
                       Fecha
                                   Especie
                                             Posicion
## Min. : 1.00
                        : 2.00
                                   C:22
                                                             Min.
                   Min.
                                           Length:50
:0.00
## 1st Qu.:13.25
                   1st Qu.:12.00
                                   F:14
                                           Class :character
                                                             1st
Qu.:2.25
## Median :25.50
                   Median :16.00
                                           Mode :character
                                                             Median
                                   H:14
:3.00
## Mean
          :25.48
                   Mean
                          :15.94
                                                              Mean
:3.34
## 3rd Qu.:37.75
                   3rd Qu.:20.75
                                                              3rd
Qu.:4.00
                   Max. :25.00
## Max.
          :50.00
                                                              Max.
```

```
:6.00
##
      Diametros
                        Altura
## Min. : 7.70
                   Min. : 8.47
   1st Qu.:13.88
                   1st Qu.:11.78
## Median :15.70
                   Median :14.24
           :15.79
## Mean
                   Mean
                           :13.94
   3rd Qu.:18.10
                    3rd Qu.:16.05
## Max.
          :22.70
                   Max.
                          :21.46
inventario$Posicion <- as.factor(inventario$Posicion)</pre>
summary(inventario)
##
        Arbol
                        Fecha
                                    Especie Posicion
                                                        Vecinos
          : 1.00
                    Min. : 2.00
##
   Min.
                                    C:22
                                            C:14
                                                     Min.
                                                            :0.00
   1st Qu.:13.25
##
                    1st Qu.:12.00
                                    F:14
                                            D: 9
                                                     1st Qu.:2.25
## Median :25.50
                   Median :16.00
                                                     Median :3.00
                                    H:14
                                            I:19
         :25.48
                                            S: 8
                                                           :3.34
##
   Mean
                   Mean
                         :15.94
                                                     Mean
##
   3rd Qu.:37.75
                    3rd Qu.:20.75
                                                     3rd Qu.:4.00
## Max.
          :50.00
                    Max.
                          :25.00
                                                     Max.
                                                          :6.00
##
      Diametros
                        Altura
## Min.
          : 7.70
                    Min.
                          : 8.47
   1st Qu.:13.88
                    1st Qu.:11.78
##
## Median :15.70
                   Median :14.24
         :15.79
                   Mean :13.94
## Mean
## 3rd Qu.:18.10
                    3rd Qu.:16.05
           :22.70
## Max.
                    Max.
                           :21.46
# Obtener una tabla de frecuencia para las variables Especie y Posición.
# Usar la función table
freq.sp <- table(inventario$Especie)</pre>
porciento <- freq.sp/sum(freq.sp)*100</pre>
sum(porciento)
## [1] 100
freq.psn <- table(inventario$Posicion)</pre>
freq.psn/sum(freq.psn)*100
##
## C D I S
## 28 18 38 16
# Porcentaje de posición
por.pos <- freq.psn/sum(freq.psn)*100</pre>
barplot(freq.sp, col = "blue", las =1, border = NA)
```



barplot(porciento, col = "red", las =1)



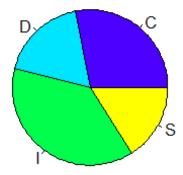
barplot(freq.psn, las =1, col = "lightblue", border = NA)



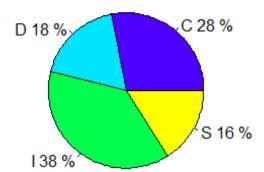
barplot(por.pos, las =1, col = "lightyellow", border = NA)



pie(freq.psn, col = topo.colors(4))



```
pie(por.pos, col = topo.colors(4), labels =
paste(levels(inventario$Posicion), por.pos, "%"))
```



```
pie(freq.sp, col = topo.colors(3), labels =
paste(levels(inventario$Especie), freq.sp, "ind"))
```

