

## Semana5.R

antonio

2022-05-20

```
#MZZ
```

```
#Semana 5
```

```
#16/02/2022
```

```
url <- paste0("https://raw.githubusercontent.com/mgtagle/" ,  
"PrincipiosEstadistica2021/main/cuadro1.csv")
```

```
Inventario <- read.csv(url)  
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  
## Median :25.50   Median :16.00   Mode  :character   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)  
summary(Inventario)
```

```
##      Arbol      Fecha      Especie      Posicion      Vecinos  
## Min.    : 1.00   Min.    : 2.00   C:22     Length:50   Min.     :0.00  
## 1st Qu.:13.25   1st Qu.:12.00   F:14     Class :character   1st Qu.:2.25  
## Median :25.50   Median :16.00   H:14     Mode  :character   Median :3.00  
## Mean    :25.48   Mean     :15.94                                     Mean    :3.34  
## 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  
## Mean    :15.79   Mean     :13.94  
## 3rd Qu.:18.10   3rd Qu.:16.05  
## Max.     :22.70   Max.      :21.46
```

```
Inventario$Posicion <- as.factor(Inventario$Posicion)
```

*#Obtener una tabla de frecuencias para Las variables Especies  
#Y Posicion. Usar La funcion table*

```
freq.sp <- table(Inventario$Especie)  
freq.sp/sum(freq.sp)*100
```

```
##  
## C F H  
## 44 28 28
```

```
porciento <-freq.sp/sum(freq.sp)*100  
sum(porciento)
```

```
## [1] 100
```

```
table(Inventario$Posicion)
```

```
##  
## C D I S  
## 14 9 19 8
```

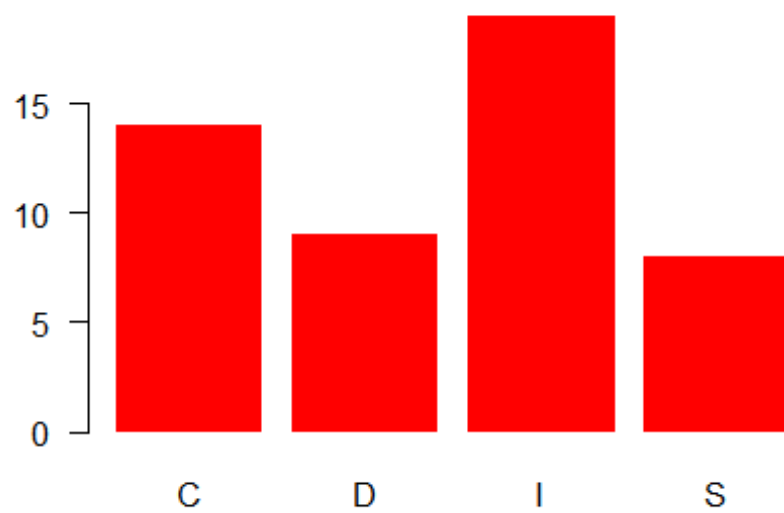
```
fre.sp <- table(Inventario$Posicion)  
fre.sp/sum(fre.sp)*100
```

```
##  
## C D I S  
## 28 18 38 16
```

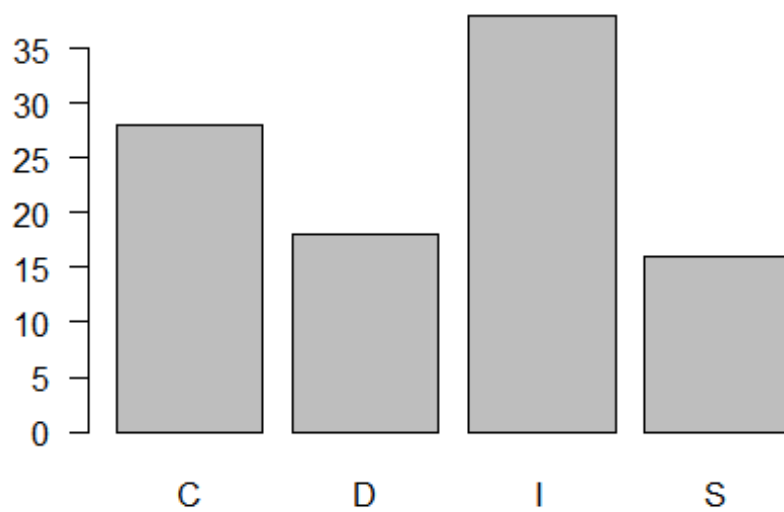
```
porcentaje <- fre.sp/sum(fre.sp)*100  
sum(porcentaje)
```

```
## [1] 100
```

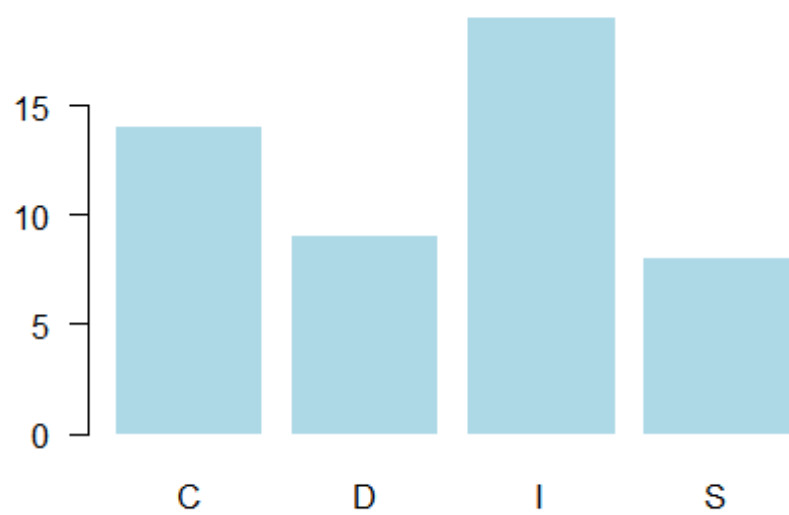
```
por.pos <- fre.sp/ sum(fre.sp)*100  
barplot(fre.sp, col = "red", las =1, border = NA)
```



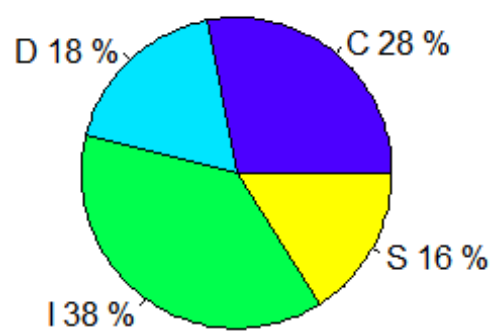
```
barplot(porcentaje, col = "grey", las = 1)
```



```
barplot(fre.sp, las=1, col = "lightblue", border = NA)
```



```
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"))
```

