Clase5.R

Usuario

2022-05-20

```
#MAGT
#Semana 5
#12/02/20200
#Kenny Rincon


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)
inventario$Posicion <- as.factor(inventario$Posicion)
summary(inventario)
```

```
##      Arbol           Fecha       Especie Posicion    Vecinos
##  Min.   : 1.00   Min.   : 2.00   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   H:14    I:19     Median :3.00
##  Mean   :25.48   Mean   :15.94           S: 8     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
```

```
#Obtener una tabla de frecuencia para las variables Especies
# Y posicion. usar la funcion table
```

```
table(inventario$Especie)
```

```
##
##  C  F  H
## 22 14 14
```

```
table(inventario$Posicion)
```

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

```
freq.sp <- table(inventario$Especie)
```

```
freq.sp/sum(freq.sp)* 100
```

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

```
table(inventario$Posicion)
```

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

```
freq.ps <- table(inventario$Posicion)
porciento <- freq.sp/sum(freq.sp)*100
```

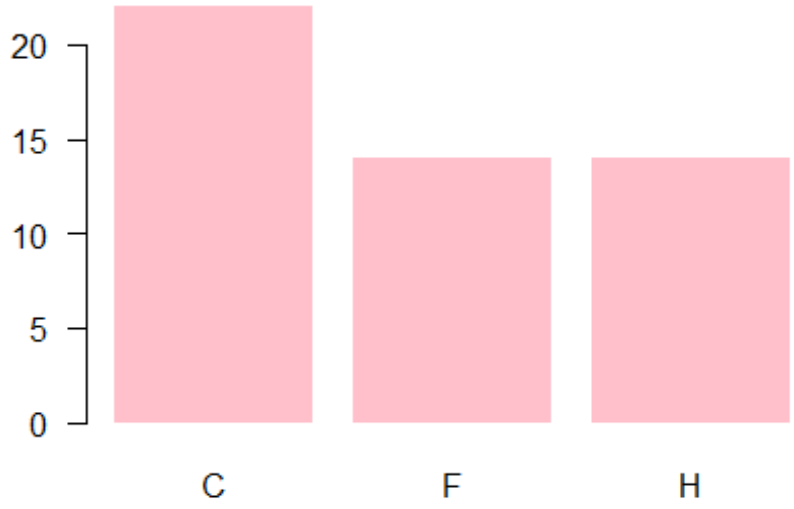
```
sum(porciento)
```

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

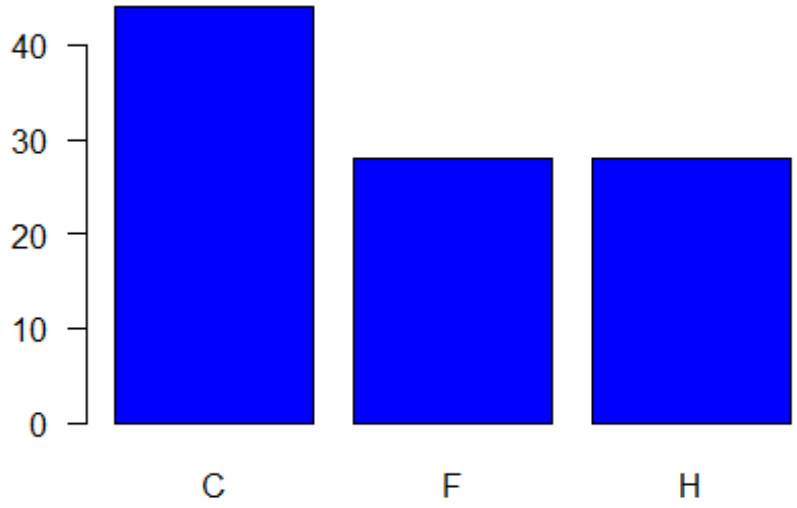
```
#Porcentaje de una posicion
```

```
por.pos <- freq.ps/sum(freq.ps)*100
```

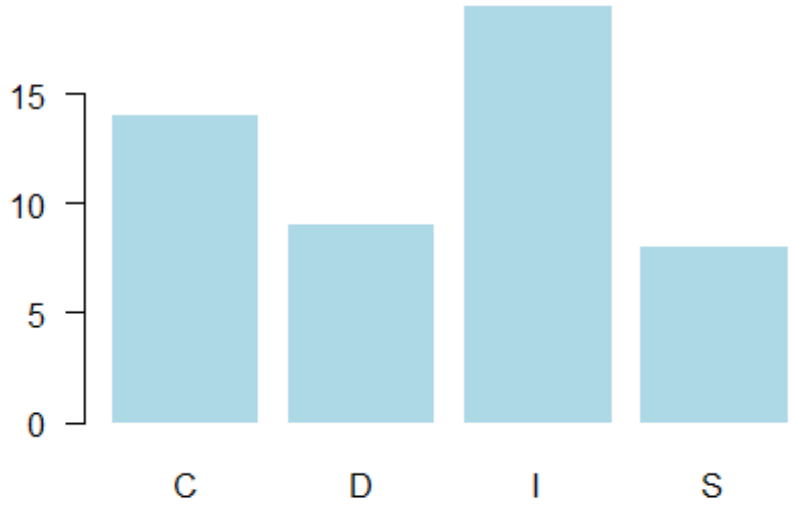
```
barplot(freq.sp, col = "pink", las =1, border = NA)
```



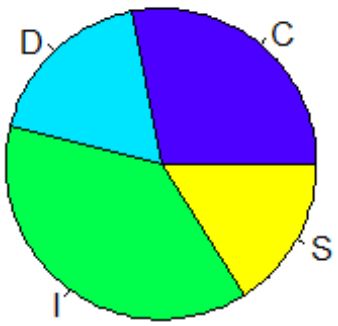

```
barplot(porciento, col = "blue", las =1)
```




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

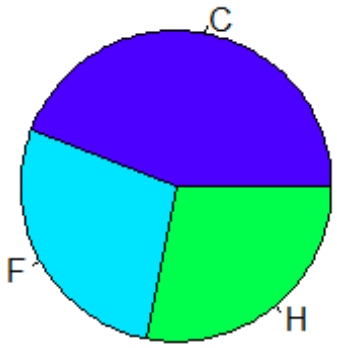



```
pie(freq.ps, col = topo.colors(4))
```

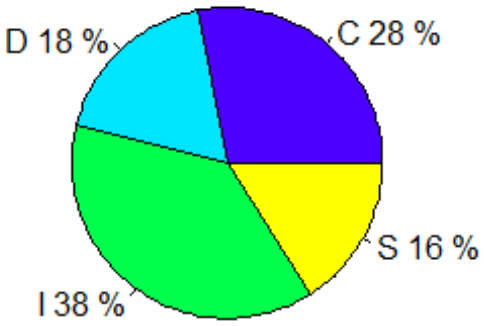


```
tabls = paste(levels(inventario$Posicion), por.pos)

pie(freq.sp, col = topo.colors(4))
```




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




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