SEMANA5_DIA1.R

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2022-05-20

```r
# santiago
# 16/02/2022
# semana 5 dia 1


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)
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 especie
# 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

freq.p <- table(inventario$Posicion)
freq.p/sum(freq.p)*100
```
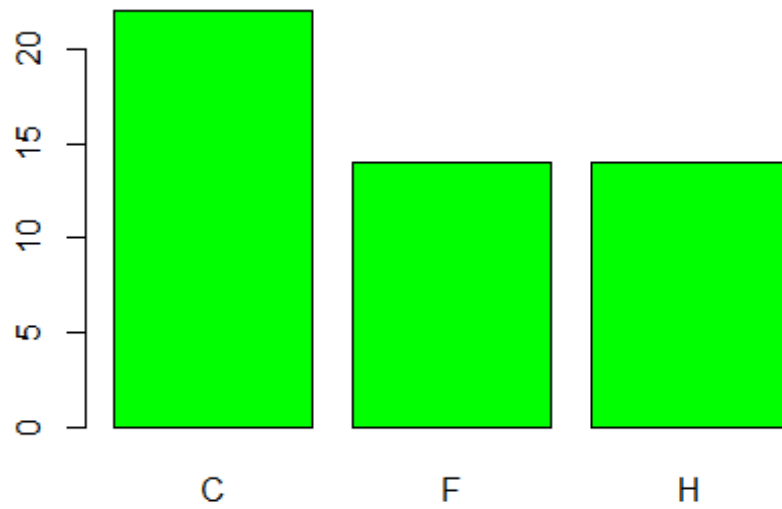
```
##
##  C  D  I  S
## 28 18 38 16
```

```
table(inventario$Posicion)
```
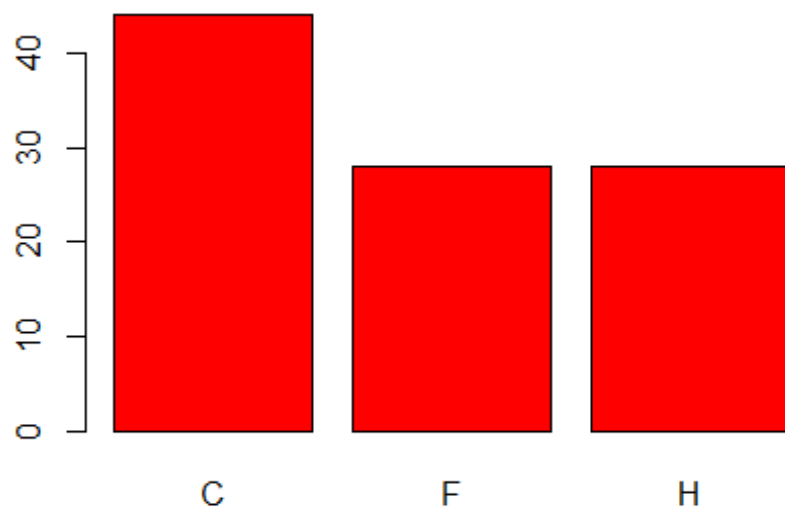
```
##
##  C  D  I  S
## 14  9 19  8
```
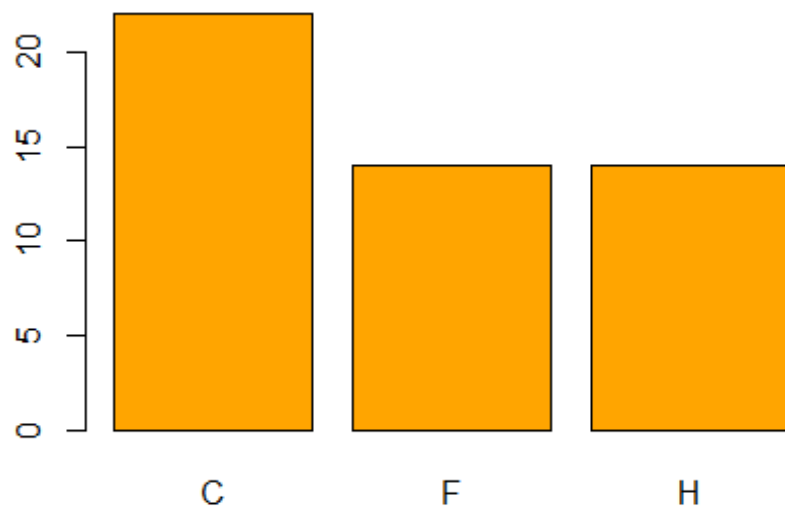
```
sum(porciento)
```

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

```
# porsentaje de posicion
```

```
barplot(freq.sp, col="green")
```
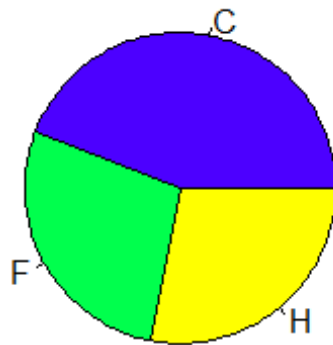


```
barplot(porciento, col = "red")
```
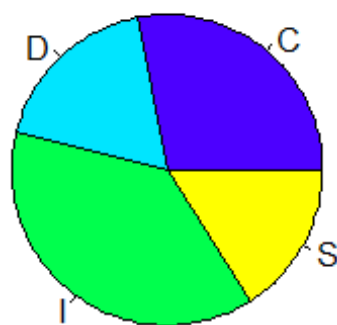
```
barplot(freq.sp, col = "orange")
```



```
pie(freq.sp, col = topo.colors(3))
```

```
    labels = paste(levels(inventario$Especie), freq.sp, "ind")
pie(freq.p, col = topo.colors(4))
```



```
    labels = paste(levels(inventario$Posicion), freq.p, "%")
```