

ClaseS5D1.R

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```
# KeyMtz
# 16/02/2022
#Clases semana 5 día 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
```

*# Otener una tabla de frecuencia 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
```

```
freq.p <-table(inventario$Posicion)
freq.p/sum(freq.p)*100
```

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

```
sum(porciento)
```

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

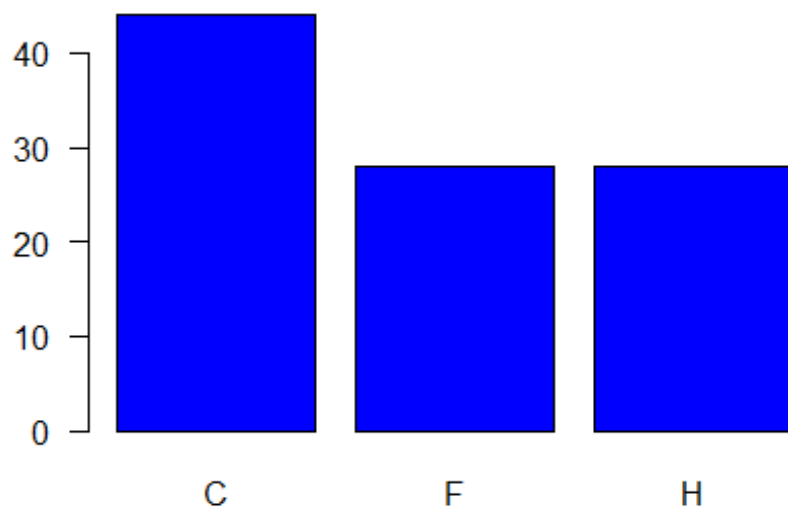
Porcentaje de posicion

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

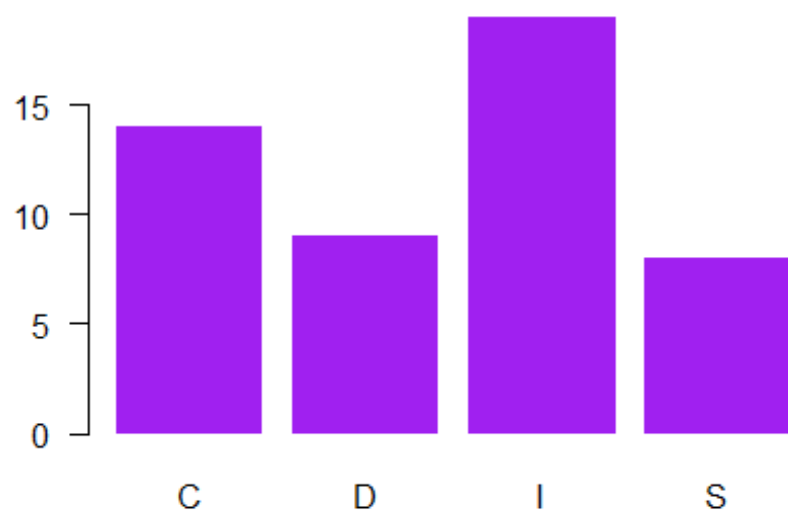
```
barplot(freq.sp, col="purple", las =1, border = NA)
```



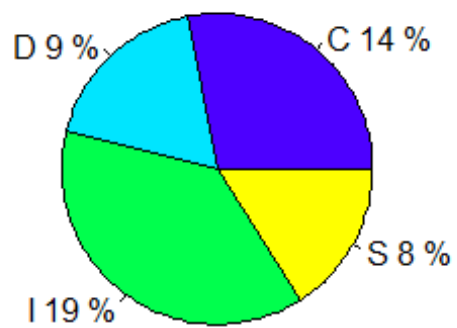
```
barplot(porciento, col="blue", las =1)
```



```
barplot(freq.p, las=1, col = "purple", border = NA)
```



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



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

