

Script-TAREA.R

Usuario

2020-02-20

```
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# 20/02/20
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```
# Ejercicio #1 -----
```

```
library(plyr)  
accidentes <- c(0,1,0,2,2,1,4,3,0,1,5,1,2,3,4,0,1,1,3,4)  
acc <- count(accidentes)  
acc
```

```
##   x freq  
## 1 0    4  
## 2 1    6  
## 3 2    3  
## 4 3    3  
## 5 4    3  
## 6 5    1
```

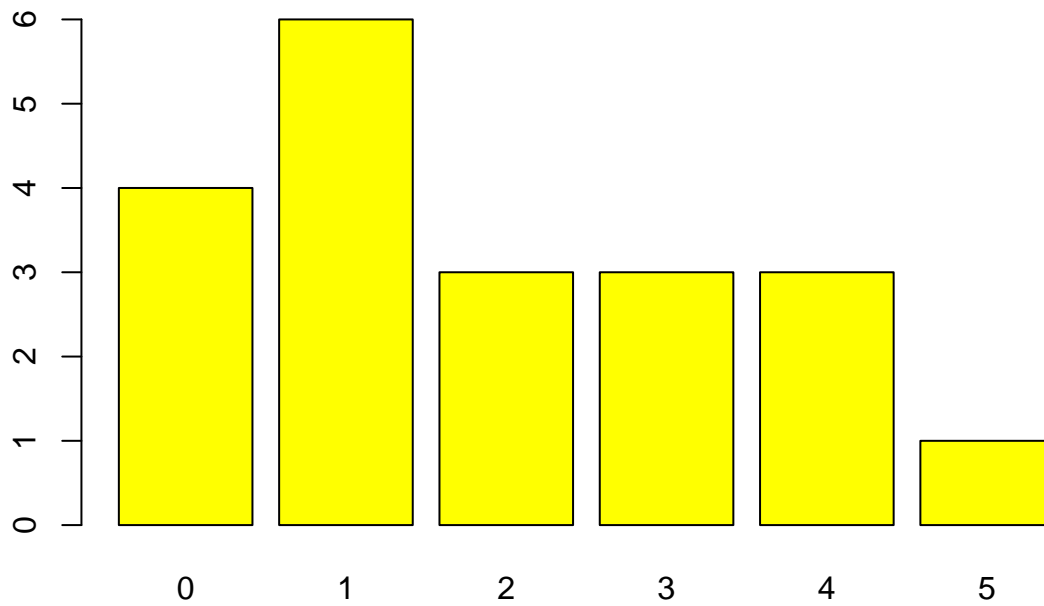
```
(acc$freq/sum(acc$freq)*100)
```

```
## [1] 20 30 15 15 15 5
```

```
acc$rf <- acc$freq/sum(acc$freq)*100
```

```
barplot(acc$freq, names.arg = acc$x, main = "accidentes en el aserradero", col = "yellow")
```

accidentes en el aserradero



```
mean(accidentes)
```

```
## [1] 1.9
```

```
sum(accidentes)
```

```
## [1] 38
```

```
# Ejercicio #2 -----
```

```
especies <- c("F","H","F","C","F","A","H","F","H","C","A","C","F","H","H","H","F","H","A","C","F","H","")
```

```
.sp <- count(especies)
```

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

```
.sp
```

```
##   x freq    rf
```

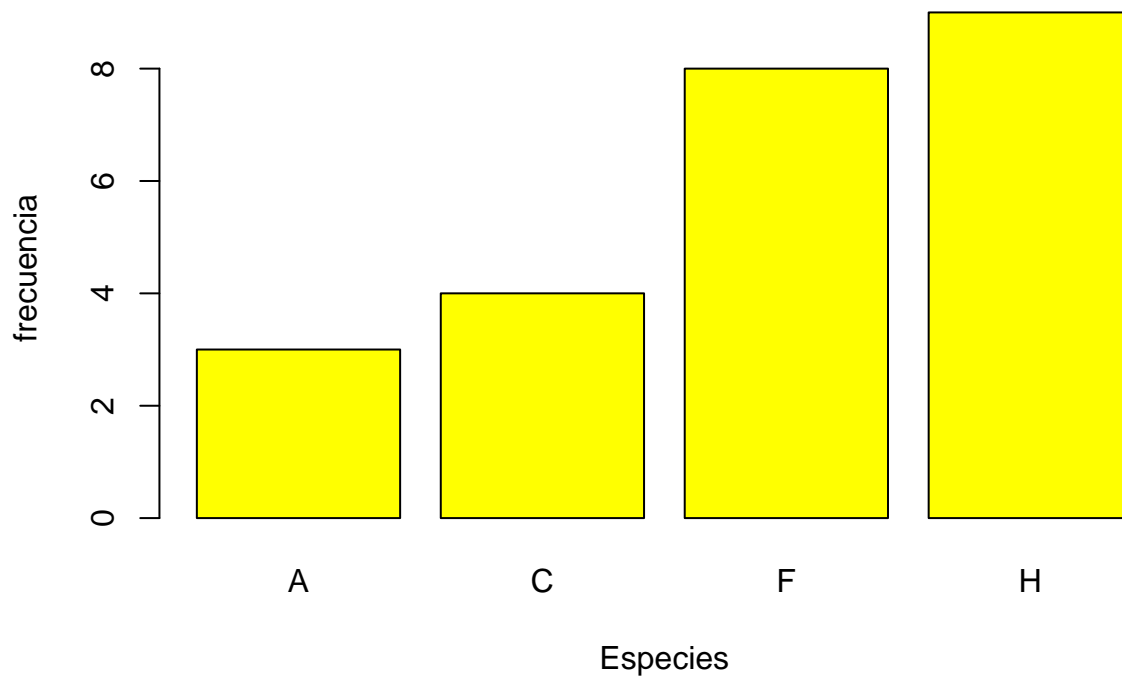
```
## 1 A   3 12.50000
```

```
## 2 C   4 16.66667
```

```
## 3 F   8 33.33333
```

```
## 4 H   9 37.50000
```

```
barplot(.sp$freq, names.arg = .sp$x, col= "yellow", ylab= "frecuencia", xlab= "Especies" )
```



```
# Ejercicio #3 -----

library(repmis)
cuadro1 <- source_data("https://www.dropbox.com/s/hmsf07bbayxv6m3/cuadro1.csv?dl=1")

## Downloading data from: https://www.dropbox.com/s/hmsf07bbayxv6m3/cuadro1.csv?dl=1
## SHA-1 hash of the downloaded data file is:
## 2bdde4663f51aa4198b04a248715d0d93498e7ba

#Encontrar la frecuencia absoluta para la variable vecinos y especie

.vc <- table(cuadro1$Vecinos, cuadro1$Especie)
.vc1 <- addmargins(as.table(.vc))
.vc1

##
##      C  F  H Sum
## 0    1  0  2   3
## 1    1  2  1   4
## 2    3  2  1   6
## 3    5  3  5  13
## 4    5  5  3  13
## 5    5  1  0   6
## 6    2  1  2   5
## Sum 22 14 14  50
```

```
# Ejercicio #4 -----

dbh <- cuadro1$Diametro
range(dbh)

## [1] 7.7 22.7

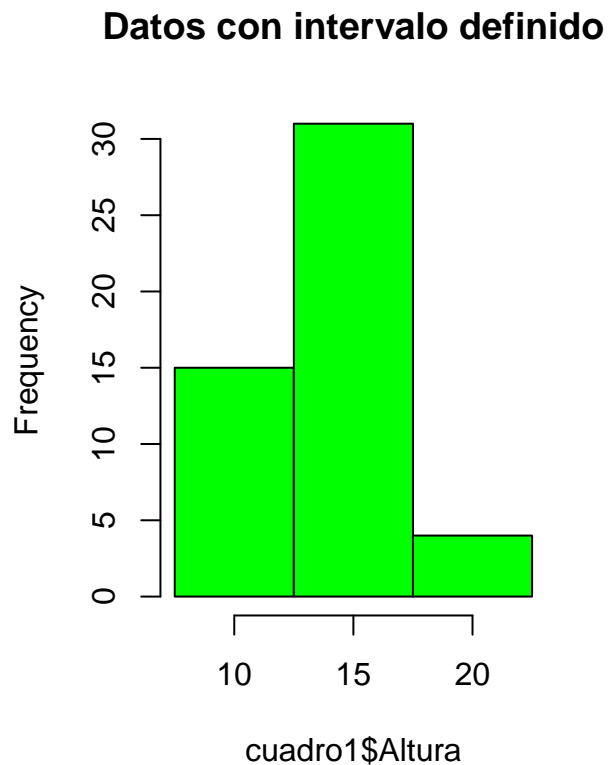
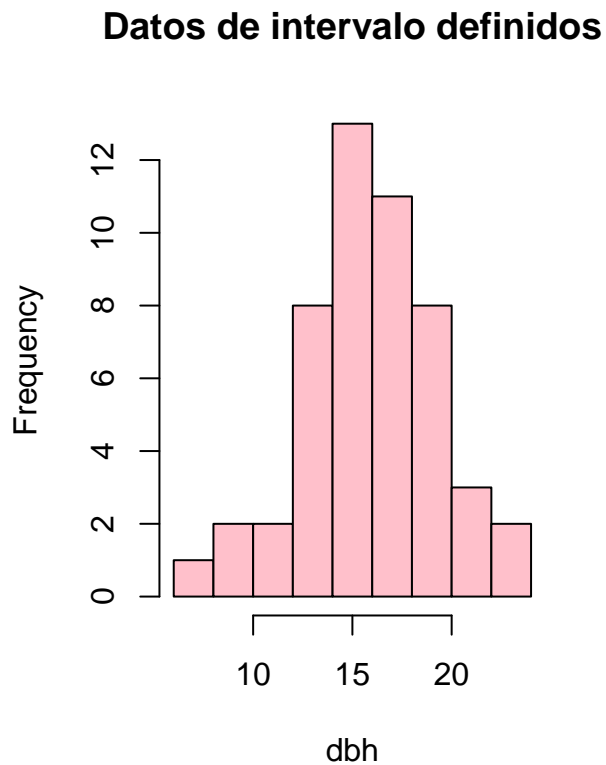
intervalo <- seq(7.5, 25.5, by=5)
intervalo

## [1] 7.5 12.5 17.5 22.5

dbh.table <- cut(dbh,intervalo)
table(dbh.table)

## dbh.table
## (7.5,12.5] (12.5,17.5] (17.5,22.5]
##          6          27          16

par(mfrow=c(1,2))
hist(dbh, main = "Datos de intervalo definidos", col="pink")
hist(cuadro1$Altura, breaks = intervalo, main = "Datos con intervalo definido", col = "green")
```



```
par(mfrow=c(1,1))

dbh.prop <- cbind(table(dbh.table))
dbh.per <- round(prop.table(dbh.prop)*100,2)
```

```
# Ejercicio #5 -----

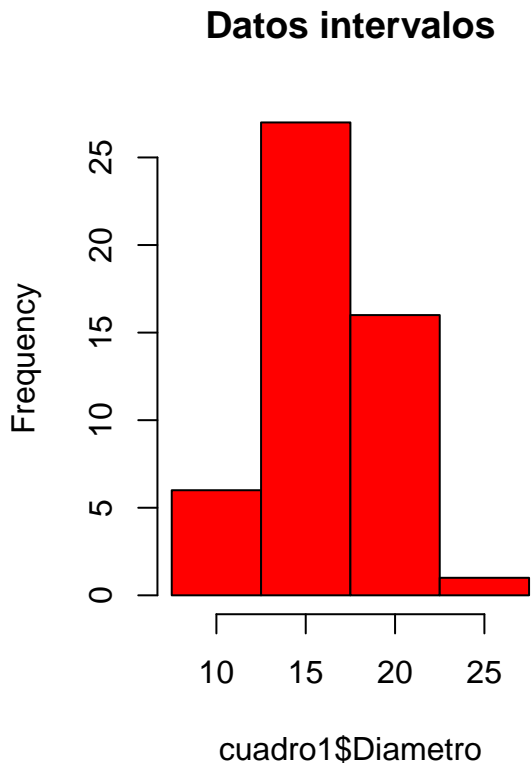
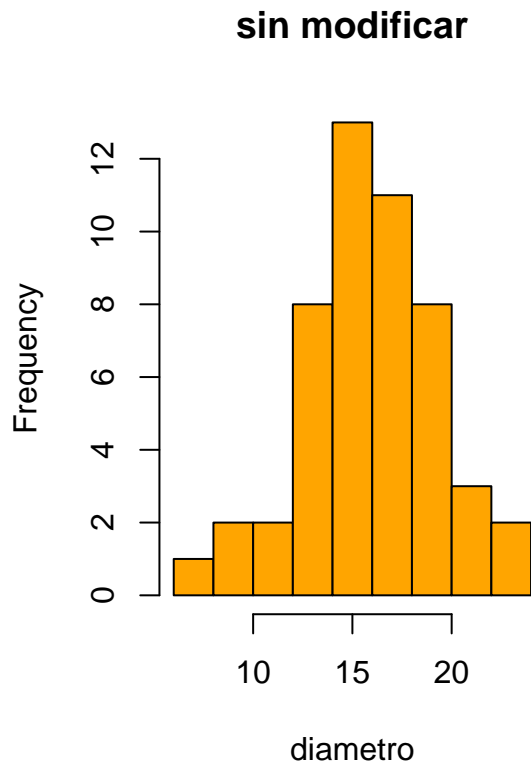
diametro <- cuadro1$Diametro
range(diametro)

## [1] 7.7 22.7

intervalo <- seq(7.5, 27.5, by=5)
intervalo

## [1] 7.5 12.5 17.5 22.5 27.5

par(mfrow=c(1,2))
hist(cuadro1$Diametro, col= "orange" , main = "sin modificar", xlab = "diametro")
hist(cuadro1$Diametro, breaks = intervalo, col= "red", main = "Datos intervalos")
```



```
par(mfrow=c(1,1))
```