Script-tarea.R

Usuario

2020-02-20

```r
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# 20/02/20


# Ejercicio #1 ---------------------------------------------------------

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

```
##   x freq
## 1 0    5
## 2 1    6
## 3 2    3
## 4 3    3
## 5 4    3
## 6 5    1
```
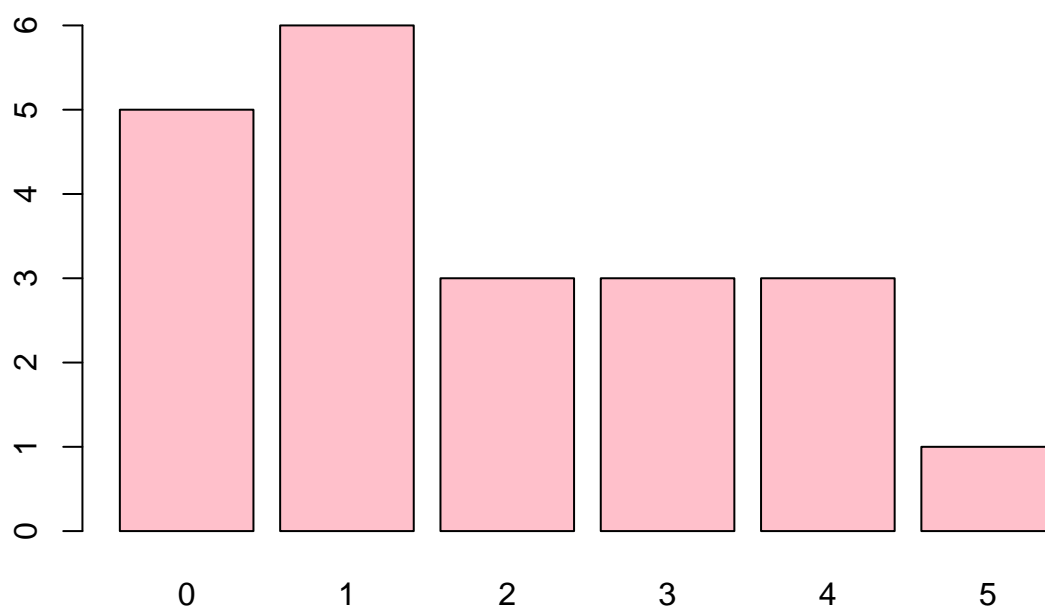
```r
(acc$freq/sum(acc$freq)*100)
```

```
## [1] 23.809524 28.571429 14.285714 14.285714 14.285714  4.761905
```

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

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

Accidentes en el aserradero


```r
mean(accidentes)
```

```
## [1] 1.809524
```

```r
sum(accidentes)
```

```
## [1] 38
```
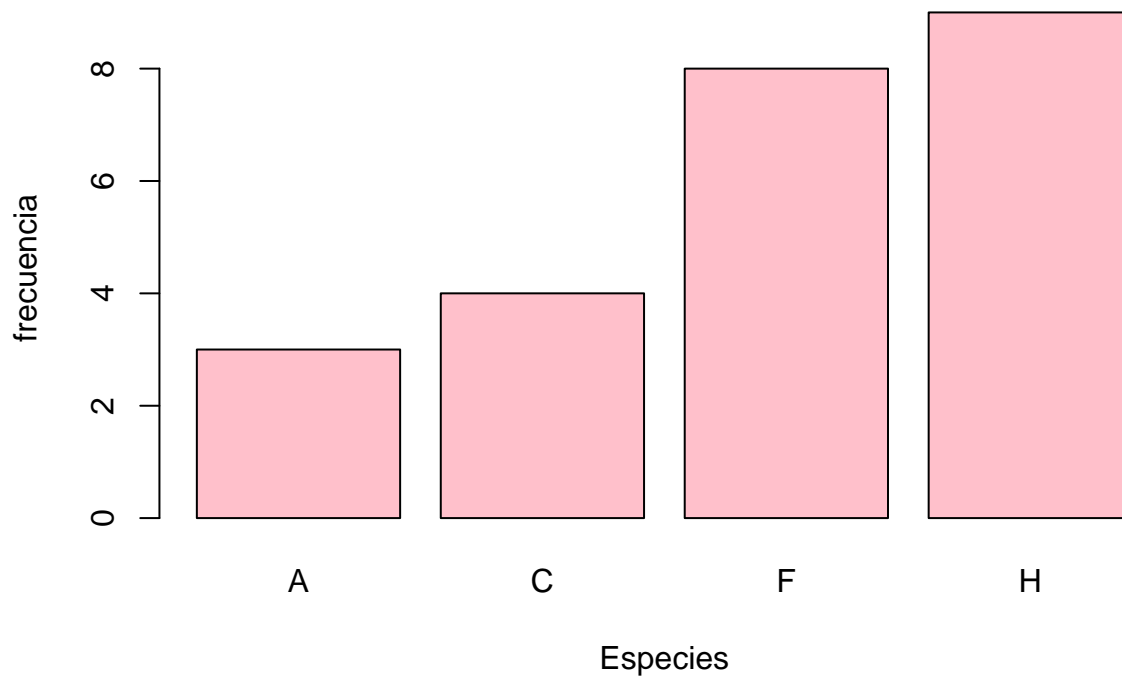
```r
barplot(accidentes)
```

```
# 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 = "pink", ylab = "frecuencia", xlab = "Especies")
```

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

library(repmis)
conjunto <- 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
```

```r
.vc <- table(conjunto$Vecinos, conjunto$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
```
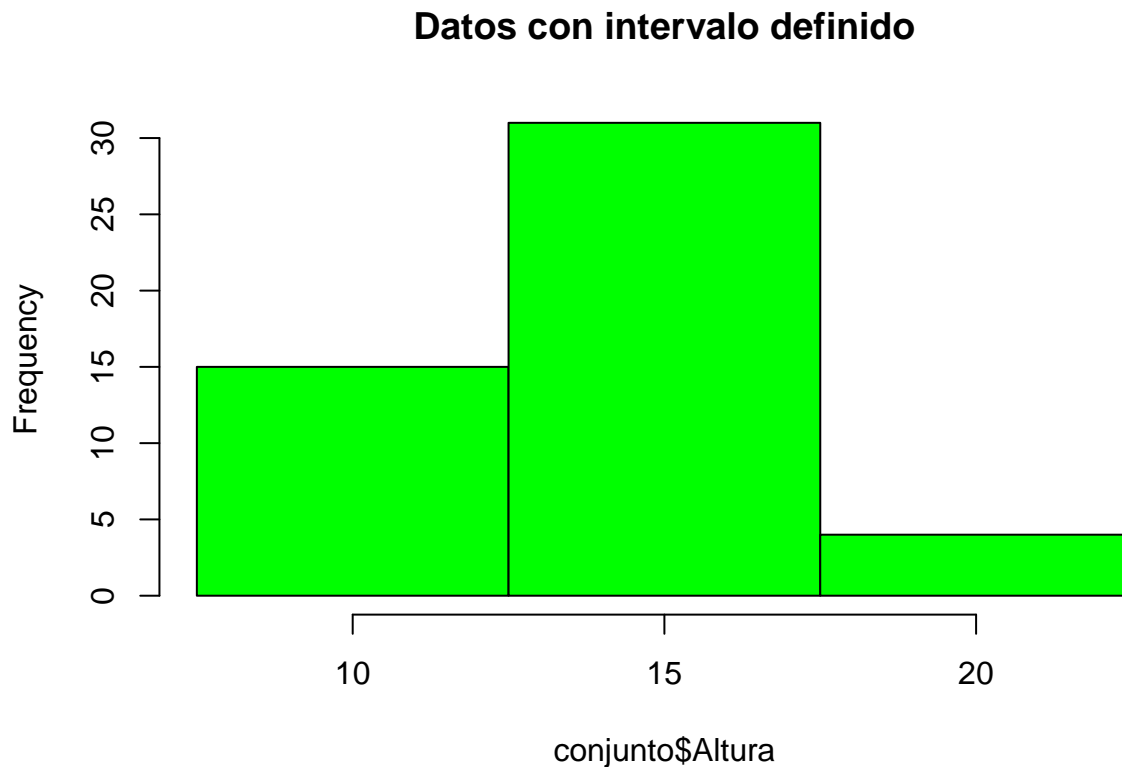
```r
# Ejercicio #4 -----------------------------------------------------------

dbh <- conjunto$Diametro
```

```r
range(dbh)
```

```
## [1]  7.7 22.7
```

```r
intervalo <- seq(7.5, 22.5, by=5)
intervalo
```

```
## [1]  7.5 12.5 17.5 22.5
```

```r
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
```

```r
hist(conjunto$Altura, breaks = intervalo, main = "Datos con intervalo definido", col = "green")
```

Datos con intervalo definido


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


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

intervalo <- seq(7.5, 27.5, by=5)
intervalo
```
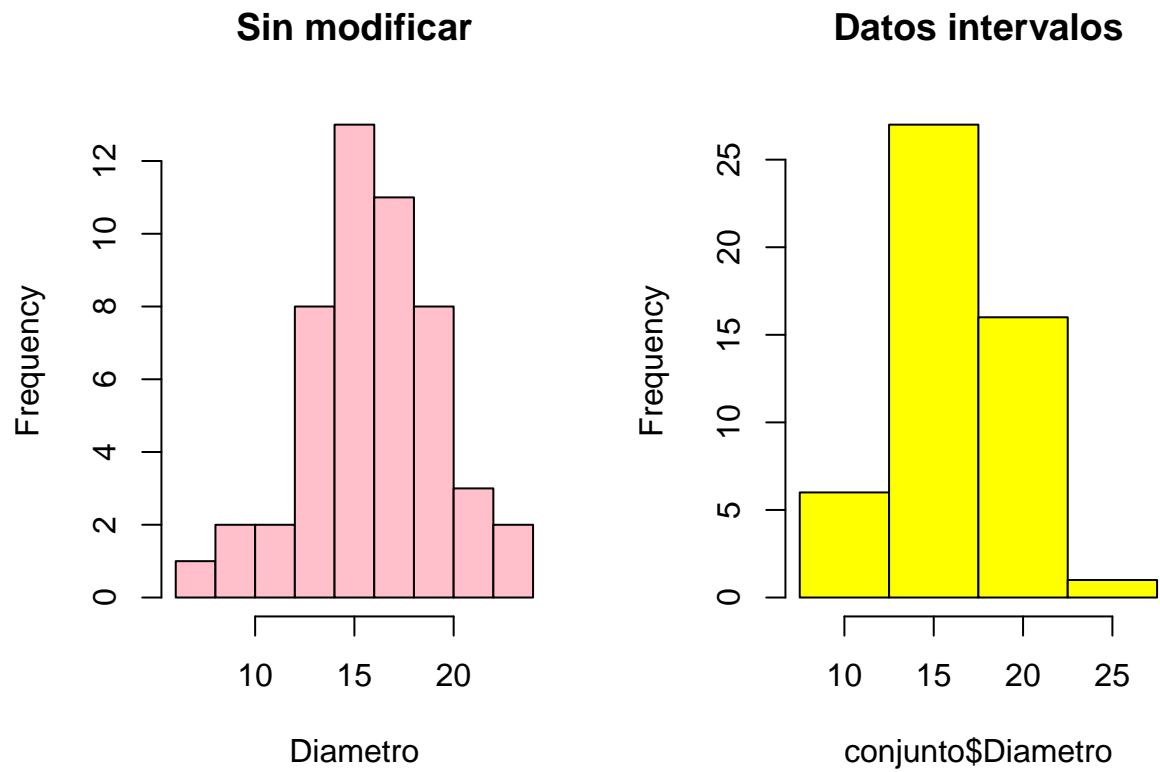
```
## [1]  7.5 12.5 17.5 22.5 27.5
```

```
par(mfrow=c(1,2))
hist(conjunto$Diametro,col = "pink", main = "Sin modificar", xlab = "Diametro")
hist(conjunto$Diametro,breaks = intervalo, col = "yellow", main = "Datos intervalos")
```



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