

Laboratorio_2.R

GEMA SC

2022-02-10

```
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# 11/02/2022
# Laboratorio_2

url <-
"http://www.profepa.gob.mx/innovaportal/file/7635/1/accionesInspeccionfo.
csv"

# fileEncoding = "Latin1"
profepa <- read.csv(url)

summary(profepa)

##      Entidad      Inspeccion      Recorrido      Operativo
## Length:33      Min.   : 24.00      Min.   :   3.00      Min.   : 0.000
## Class :character 1st Qu.: 51.00      1st Qu.: 13.00      1st Qu.: 2.000
## Mode  :character Median : 59.00      Median : 24.00      Median : 4.000
##              Mean  : 75.42      Mean  : 58.27      Mean  : 5.939
##              3rd Qu.: 84.00      3rd Qu.: 34.00      3rd Qu.: 7.000
##              Max.   :254.00      Max.   :1072.00      Max.   :28.000

profepa$Inspeccion >= mean(profepa$Inspeccion)

## [1] FALSE FALSE TRUE FALSE FALSE TRUE FALSE FALSE TRUE FALSE FALSE
## [13] FALSE TRUE TRUE FALSE FALSE FALSE TRUE TRUE FALSE FALSE FALSE
## [25] FALSE FALSE FALSE FALSE FALSE TRUE FALSE FALSE TRUE

# subset

ins.alta <- subset(profepa, profepa$Inspeccion >=
mean(profepa$Inspeccion))
ins.baja <- subset(profepa, profepa$Inspeccion <=
mean(profepa$Inspeccion))

Est.C <- subset(profepa, profepa$Entidad == "Chiapas")

Est.C <- profepa[4:8,]
Est.N <- profepa[17:18,]
```

```
# Obtener los estados con inspecciones > a 15 pero < a 35
```

```
ins.media <- subset(profepa, profepa$Inspeccion >= 15 & profepa$Operativo  
<= 10)
```

```
rec.media <- subset(profepa, profepa$Recorrido <= mean(profepa$Recorrido)  
& profepa$Operativo <= mean(profepa$Operativo))
```

```
mean(profepa$Recorrido)
```

```
## [1] 58.27273
```

```
mean(profepa$Operativo)
```

```
## [1] 5.939394
```

```
url <- "https://www.dropbox.com/s/hmsf07bbayxv6m3/cuadro1.csv?dl=1"
```

```
# fileEncoding = "Latin1"
```

```
inventario <- read.csv(url)
```

```
# A tibble: 6 * 7
```

```
head(inventario)
```

```
##   Arbol Fecha Especie Clase Vecinos Diametro Altura  
## 1     1    12      F     C      4     15.3   14.78  
## 2     2    12      F     D      3     17.8   17.07  
## 3     3     9      C     D      5     18.2   18.28  
## 4     4     9      H     S      4      9.7    8.79  
## 5     5     7      H     I      6     10.8   10.18  
## 6     6    10      C     I      3     14.1   14.90
```

```
mean(inventario$Arbol)
```

```
## [1] 25.5
```

```
mean(inventario$Fecha)
```

```
## [1] 15.94
```

```
mean(inventario$Vecinos)
```

```
## [1] 3.34
```

```
mean(inventario$Diametro)
```

```
## [1] 15.794
```

```
mean(inventario$Altura)
```

```
## [1] 13.9432
```

```
sd(inventario$Arbol)
```

```

## [1] 14.57738
sd(inventario$Fecha)
## [1] 5.963871
sd(inventario$Vecinos)
## [1] 1.598596
sd(inventario$Diametro)
## [1] 3.227017
sd(inventario$Altura)
## [1] 2.907177
inventario$Diametro >= mean(inventario$Diametro)
## [1] FALSE TRUE TRUE FALSE FALSE FALSE TRUE TRUE TRUE TRUE FALSE
FALSE
## [13] TRUE TRUE TRUE FALSE TRUE TRUE FALSE TRUE FALSE TRUE TRUE
FALSE
## [25] TRUE TRUE TRUE FALSE TRUE TRUE FALSE FALSE FALSE FALSE FALSE
TRUE
## [37] TRUE TRUE FALSE FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE
FALSE
## [49] TRUE TRUE

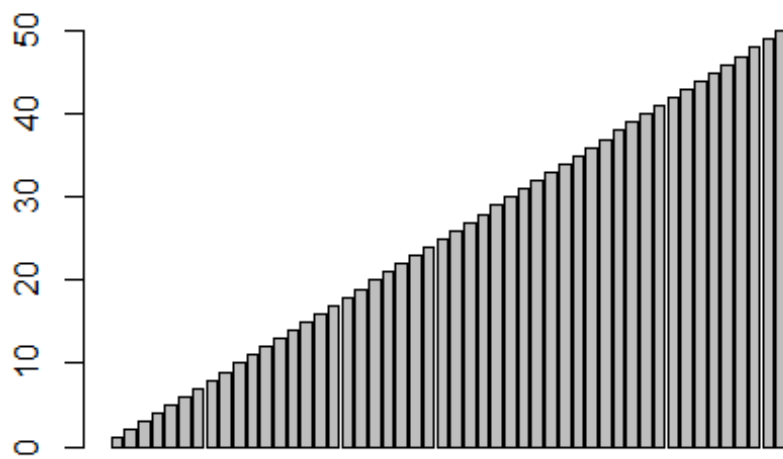
# subset

ins.altas <- subset(inventario, inventario$Diametro >=
mean(inventario$Diametro))
ins.altas <- subset(inventario, inventario$Diametro >=
mean(inventario$Altura))

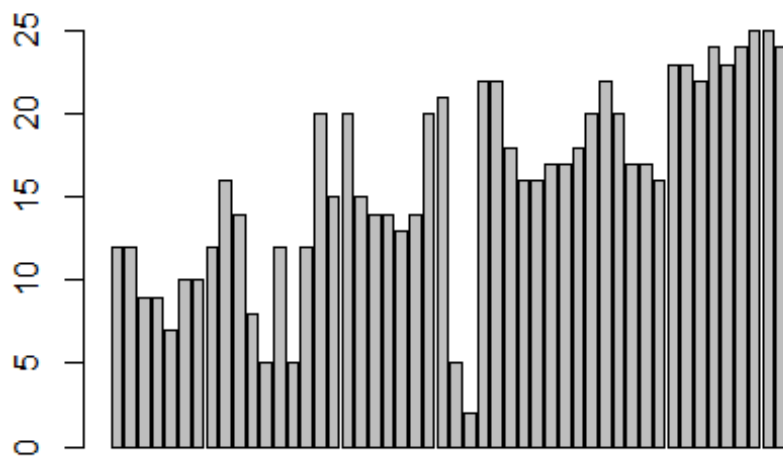
Est.C <- subset(inventario, inventario$Arbol == c(1:50))

barplot(inventario$Arbol)

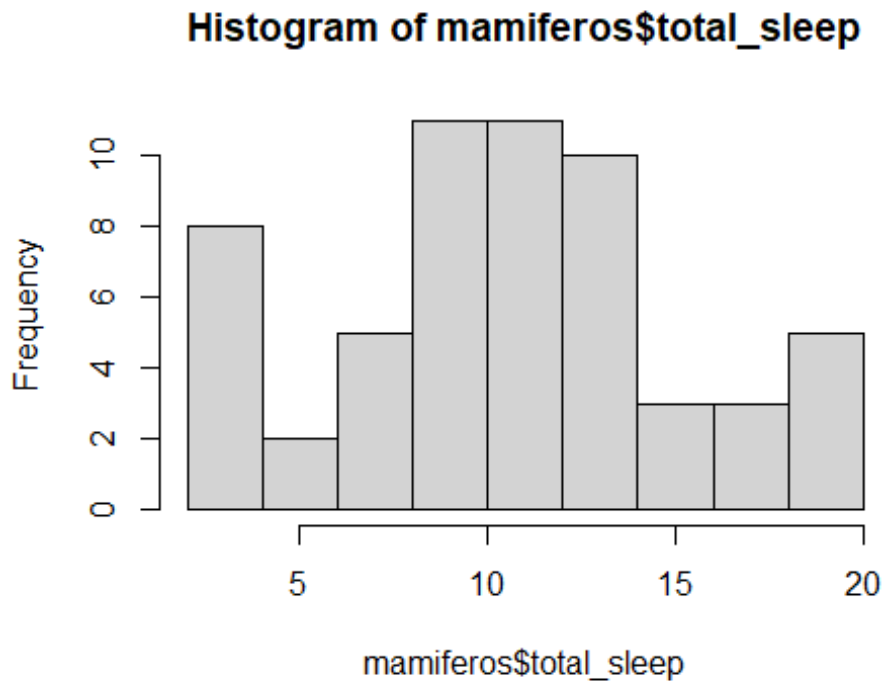
```



```
barplot(inventario$Fecha)
```



```
mamiferos <- read.csv("https://www.openintro.org/data/csv/mammals.csv")
hist(mamiferos$total_sleep)
```



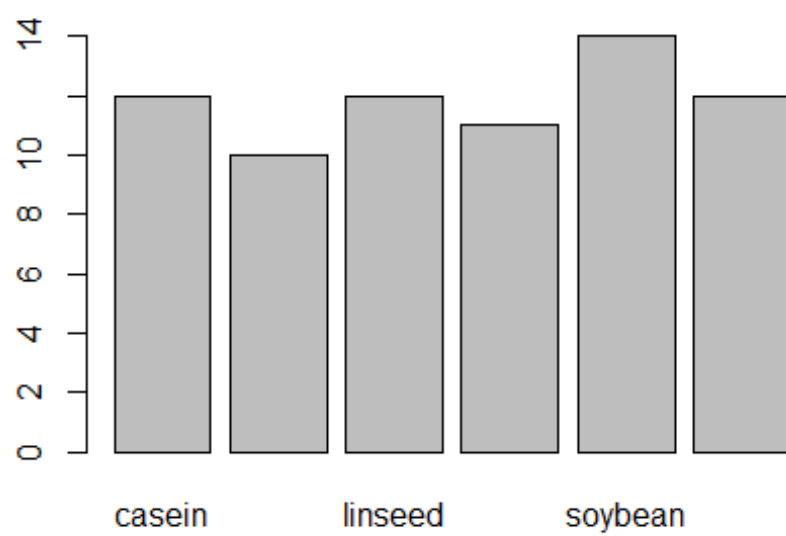
```
"xlim = c(0,20) , ylim = c(0,14)"
## [1] "xlim = c(0,20) , ylim = c(0,14)"

main = "total_sleep"
xlab = "horas sueño"
ylab = "frecuencia"

data("chickwts")
head(chickwts[c(1:2,42:43, 62:64), ])

##   weight    feed
## 1    179 horsebean
## 2    160 horsebean
## 42   226 sunflower
## 43   320 sunflower
## 62   379  casein
## 63   260  casein

feeds <- table(chickwts$feed)
barplot(feeds)
```



```
barplot(feeds[order(feeds, decreasing = TRUE)])
```

