03_Prueba_t_una_muestra.R

Usuario

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```
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# Importar datos ------------------------------------------------------
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# Funcion read.csv
setwd("C:/Repositorio_Git/Met_ES/Codigos")
diametro <- read.csv("diametro.csv", header = T)


# Descriptivas  -------------------------------------------------------
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library(dplyr)

##
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':
##
##     filter, lag

## The following objects are masked from 'package:base':
##
##     intersect, setdiff, setequal, union

TA <- diametro %>%
  filter(Tratamiento == "TA")
TB <- diametro %>%
  filter(Tratamiento == "TB")

mean(TA$Diametro)

## [1] 39.76467

mean(TB$Diametro)

## [1] 45.89167

descriptor <- diametro %>%
  group_by(Tratamiento)%>%
```
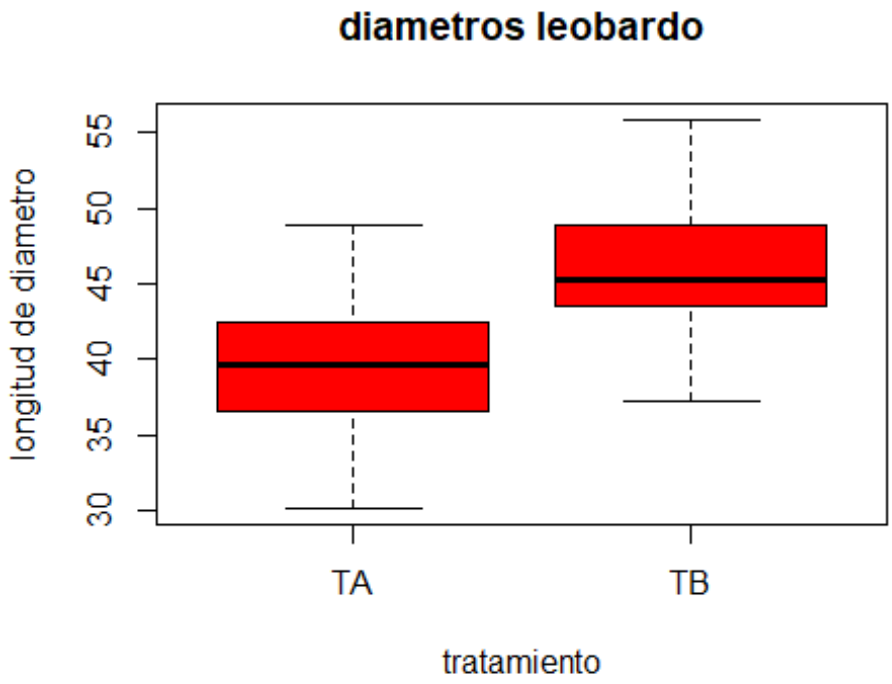

```
  summarise(
    n = n(),
    media = mean(Diametro),
    mediana = median(Diametro),
    sd = sd (Diametro),
    var = var(Diametro)
  )

boxplot(diametro$Diametro ~ diametro$Tratamiento,
        xlab = "tratamiento",
        ylab = "longitud de diametro",
        main = "diametros leobardo",
        col = "red")
```




```
t.test(diametro$Diametro ~ diametro$Tratamiento, var.equal = T)

##
##  Two Sample t-test
##
## data:  diametro$Diametro by diametro$Tratamiento
## t = -5.2103, df = 58, p-value = 2.61e-06
## alternative hypothesis: true difference in means between group TA and
group TB is not equal to 0
## 95 percent confidence interval:
##  -8.480898 -3.773102
## sample estimates:
```

```
## mean in group TA mean in group TB
##         39.76467         45.89167

# Conclusion  ------------------------------------------------------------
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## Existe una diferencia significativa, los que no cuentan con
tratamiernto de fertilizante tienen diametros mayores
```