

03_prueba_-t_-una-muestra.R

Usuario

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```
# importar datos -----
--
setwd("C:/REPOSITORIO/Met_ES/Scripts")
diametro <- read.csv("diametro.csv", header = T)

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)

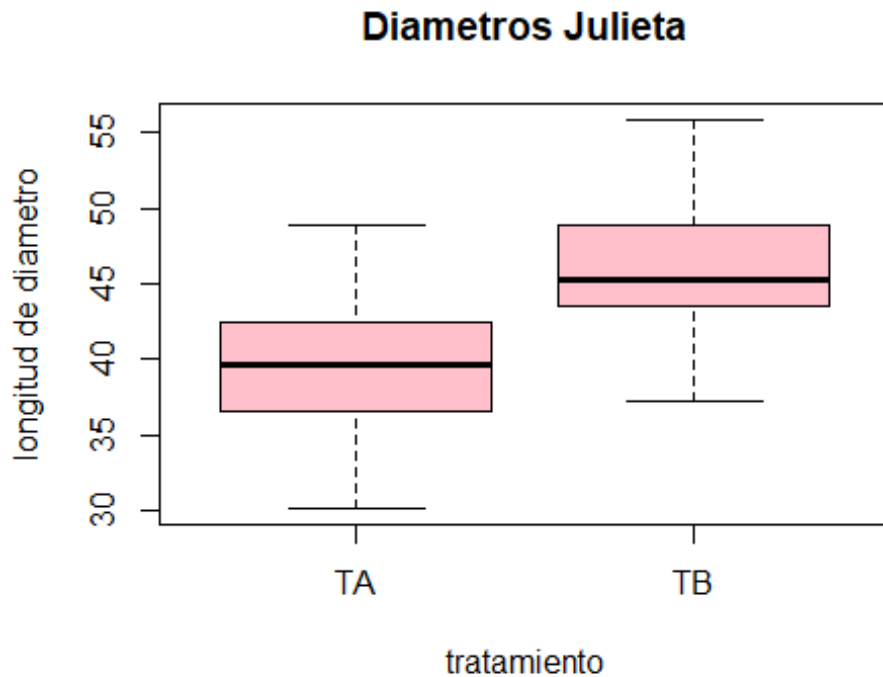
## [1] 39.76467

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 Julieta",
col= "pink")
```



```
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 -----
--
```

existe una diferencia significativa, Los arboles sin tratamiento fertilizante tienen mayores diametros