

## 03\_prueba\_p\_una\_muestra.R

Usuario

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```
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# Matricula: 2070472

# Importar datos -----
--
# Funcion read.csv (sirve para importar datos csv a R)

setwd("C:/Met_Es/Codigos")
Plantacion <- read.csv("Tab.csv", header = TRUE)

# Descriptivas -----
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# Usar la libreria dplyr para seleccionar datos mediante
# restricciones

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

a <- Plantacion %>%
  filter(Tratamiento == "a")

b <- Plantacion %>%
  filter(Tratamiento == "b")

mean(a$IE)

## Warning in mean.default(a$IE): argument is not numeric or logical:
## returning NA
```

```
## [1] NA
mean(b$IE)

## Warning in mean.default(b$IE): argument is not numeric or logical:
returning NA

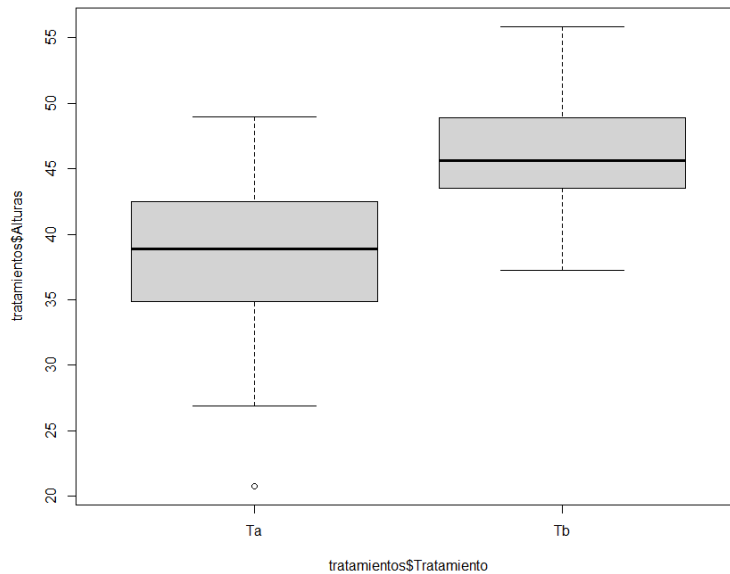
## [1] NA

Descriptivo <- Plantacion %>%
  group_by(Tratamiento) %>%
  summarise(
    n = n (),
    media = mean(Altura),
    mediana = median(Altura),
    sd = sd(Altura),
    var = var(Altura)
  )
Descriptivo

## # A tibble: 2 × 6
##   Tratamiento    n media mediana    sd   var
##   <chr>      <int> <dbl>   <dbl> <dbl> <dbl>
## 1 a          30  39.8   39.6  4.90  24.1
## 2 b          30  45.9   45.2  4.17  17.4

# Grafica -----
--

boxplot(Plantacion$Altura ~ Plantacion$Tratamiento,
        xlab = "Tratamiento",
        ylab = "Indice Esbeltes",
        main = "vivero",
        col = "pink")
```



```
t.test(Plantacion$Altura ~ Plantacion$Tratamiento, var.equal = T)

##
## Two Sample t-test
##
## data: Plantacion$Altura by Plantacion$Tratamiento
## t = -5.2103, df = 58, p-value = 2.61e-06
## alternative hypothesis: true difference in means between group a and
## group b is not equal to 0
## 95 percent confidence interval:
##  -8.480898 -3.773102
## sample estimates:
## mean in group a mean in group b
##      39.76467      45.89167

# Conclusiones -----
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#Al comparar las graficas a y b en sus tratamientos note que el segundo
tratamiento tenia un desarrollo mas rapido
#Por tanto el segundo tratamiento es mas apto
```