03_Prueba_t_independientes.R

Usuario01

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```
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# Matrícula: 2133639
# Dos tratamientos A y B, un grupo de plantas
# Prueba de t independiente
setwd("C:/Repositorio Git/Met ES/Codigos")
plantacion <- read.csv("TAB.csv", header = T)</pre>
# Descriptivas ------
# Usar la librería 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
Ta <- plantacion %>%
  filter(Tratamiento == "Ta")
Tb <- plantacion %>%
  filter(Tratamiento == "Tb")
mean(Ta$Altura)
## [1] 39.76467
```

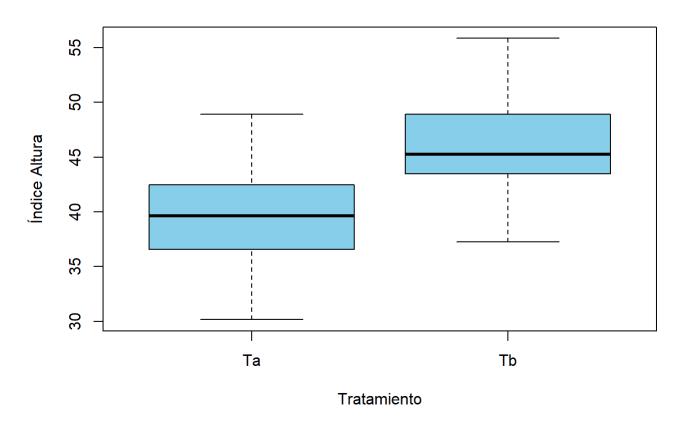
```
mean(Tb$Altura)
```

```
## [1] 45.89167
```

```
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 Ta
                   30 39.8
                              39.6 4.90 24.1
## 2 Tb
                   30 45.9
                              45.2 4.17 17.4
```

Plantación



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 Ta and group Tb is not equal t
o 0
## 95 percent confidence interval:
## -8.480898 -3.773102
## sample estimates:
## mean in group Ta mean in group Tb
## 39.76467 45.89167
```