

02_Prueba_t_independientes.R

Usuario

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```
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# Dos tratamientos Ctrl y Fert, un grupo de plantas
# Prueba de t independientes

# Importar -----
setwd("C:/Repositorio_GIT_DiegoFlores/Met.ES/Codigos")
vivero <- read.csv("IE.csv",header = T)

# Descriptivas -----

# 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
```

```
Ctrl<-vivero %>%
  filter(Tratamiento == "Ctrl")

Fert<-vivero %>%
  filter(Tratamiento == "Fert")

mean(Ctrl$IE)
```

```
## [1] 0.767619
```

```
mean(Fert$IE)
```

```
## [1] 0.9066667
```

```
Descriptor<-vivero %>%  
  group_by(Tratamiento) %>%  
  summarise(  
    n=n(),  
    media=mean(IE),  
    mediana=median(IE),  
    sd=sd(IE),  
    var=var(IE)  
  )
```

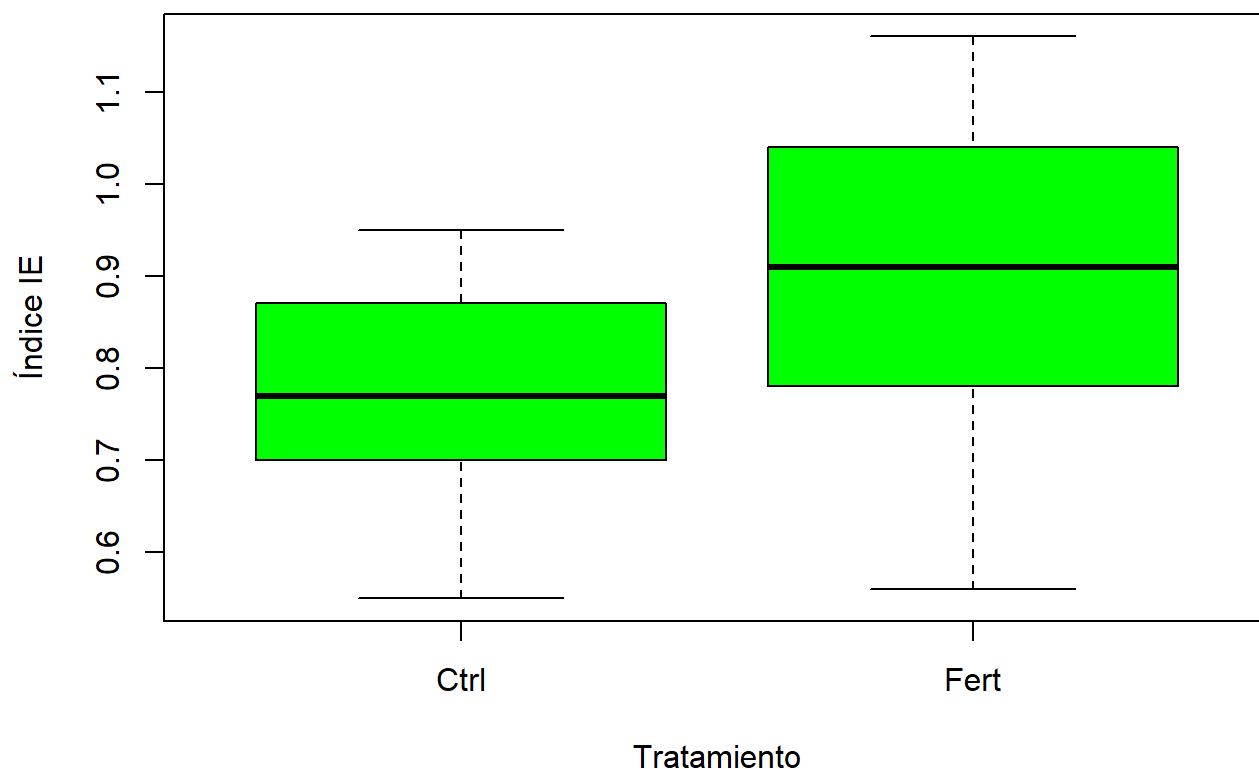
Descriptor

```
## # A tibble: 2 × 6  
##   Tratamiento      n media mediana    sd    var  
##   <chr>      <int> <dbl>   <dbl> <dbl> <dbl>  
## 1 Ctrl         21 0.768    0.77 0.115 0.0133  
## 2 Fert         21 0.907    0.91 0.180 0.0324
```

```
# Grafica -----
```

```
boxplot(vivero$IE~vivero$Tratamiento,  
        xlab = "Tratamiento",  
        ylab = "Índice IE",  
        main = "Vivero Diego",  
        col = "green")
```

Vivero Diego



```
t.test(vivero$IE~vivero$Tratamiento,var.equal=T)
```

```
##  
## Two Sample t-test  
##  
## data: vivero$IE by vivero$Tratamiento  
## t = -2.9813, df = 40, p-value = 0.004868  
## alternative hypothesis: true difference in means between group Ctrl and group Fert is not equal to 0  
## 95 percent confidence interval:  
## -0.23331192 -0.04478332  
## sample estimates:  
## mean in group Ctrl mean in group Fert  
## 0.7676190 0.9066667
```