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_LR/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
```

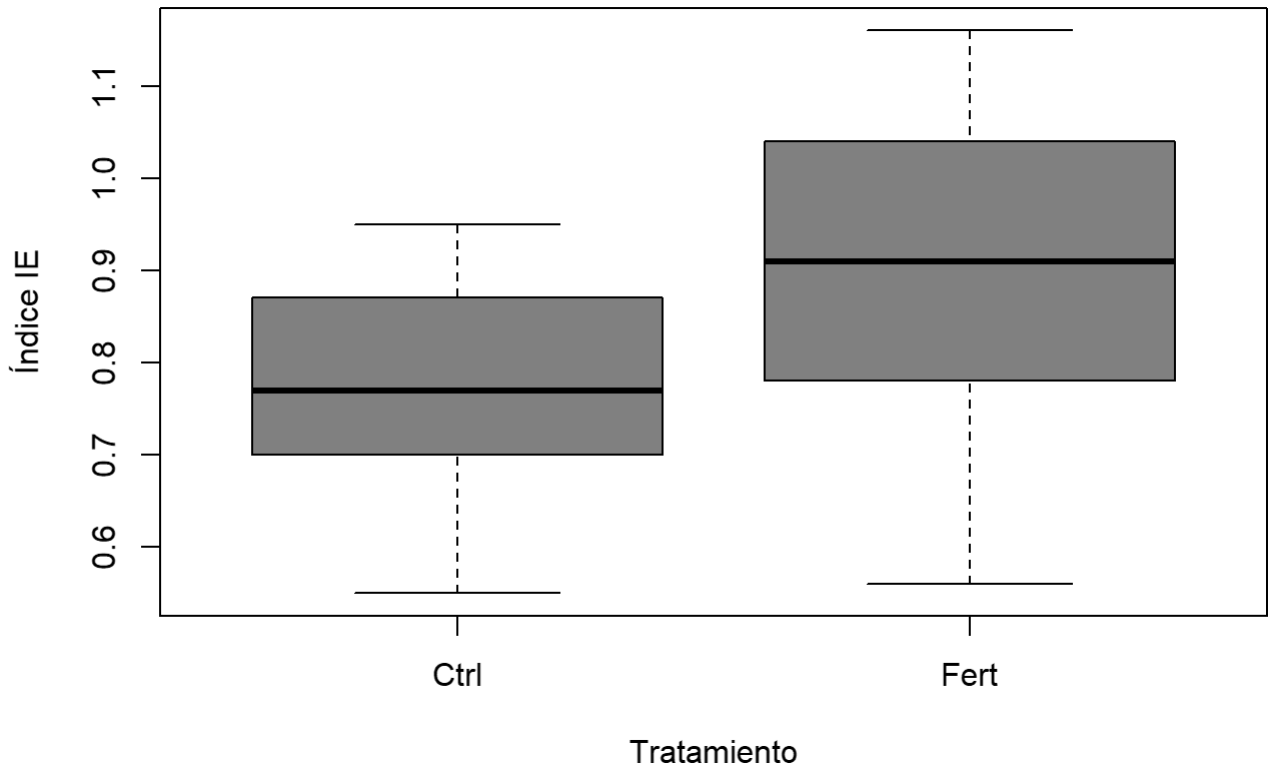
```
Descriptor<-vivero %>%
  group_by(Tratamiento) %>%
  summarise(
    n=n(),
    media=mean(IE),
    mediana=median(IE),
    sd=sd(IE),
    var=var(IE)
  )

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")
```




```
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 equ
al to 0
## 95 percent confidence interval:
##  -0.23331192 -0.04478332
## sample estimates:
## mean in group Ctrl mean in group Fert
##          0.7676190          0.9066667
```