Viani\_Vivero.R

Usuario

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# 27/04/2023  
#VAGM  
plantulas <- read.csv("ejemplo\_2.csv", header =T)  
plantulas$Tratamiento <- as.factor(plantulas$Tratamiento)  
  
# revisar datos  
shapiro.test(plantulas$IE)

##   
## Shapiro-Wilk normality test  
##   
## data: plantulas$IE  
## W = 0.96225, p-value = 0.1777

bartlett.test(plantulas$IE ~ plantulas$Tratamiento)

##   
## Bartlett test of homogeneity of variances  
##   
## data: plantulas$IE by plantulas$Tratamiento  
## Bartlett's K-squared = 3.7423, df = 1, p-value = 0.05305

# t-test indep ------------------------------------------------------------  
  
t.test(plantulas$IE ~ plantulas$Tratamiento, var.equal=T)

##   
## Two Sample t-test  
##   
## data: plantulas$IE by plantulas$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

# t\_test one sample -------------------------------------------------------  
  
mean(plantulas$IE)

## [1] 0.8371429

t.test(plantulas$IE, mu = 0.90)

##   
## One Sample t-test  
##   
## data: plantulas$IE  
## t = -2.4684, df = 41, p-value = 0.01783  
## alternative hypothesis: true mean is not equal to 0.9  
## 95 percent confidence interval:  
## 0.7857153 0.8885704  
## sample estimates:  
## mean of x   
## 0.8371429

t.test(plantulas$IE, m = .85)

##   
## One Sample t-test  
##   
## data: plantulas$IE  
## t = -0.5049, df = 41, p-value = 0.6163  
## alternative hypothesis: true mean is not equal to 0.85  
## 95 percent confidence interval:  
## 0.7857153 0.8885704  
## sample estimates:  
## mean of x   
## 0.8371429