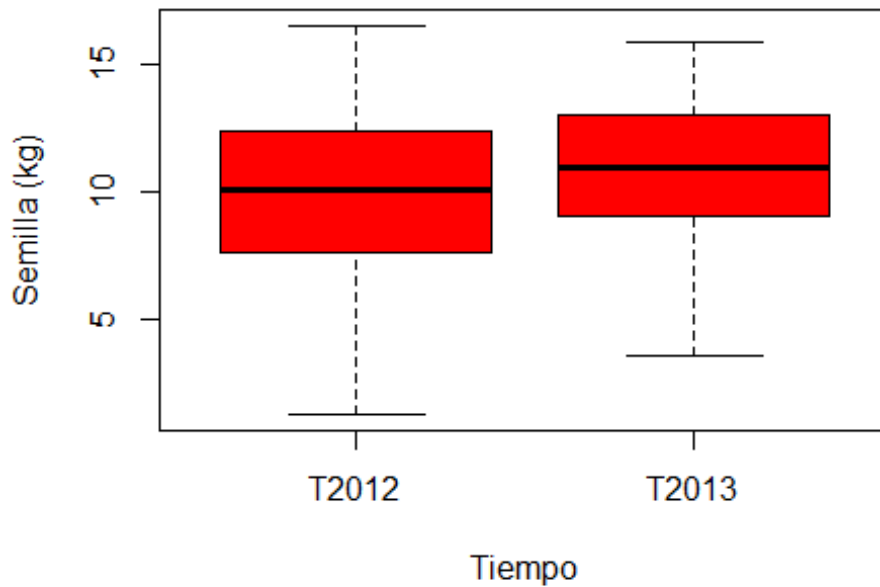# ClaseS11D1.R

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2022-05-19

```
#KeyMtz
#Clase semana 11 dia 1
#Pruebas de t de muestras dependientes


datos <- read.csv("mainproduccion.csv", header = T)
datos$Tiempo <- as.factor(datos$Tiempo)

boxplot(datos$Kgsem ~ datos$Tiempo, col="red", xlab = "Tiempo", ylab =
"Semilla (kg)")
```
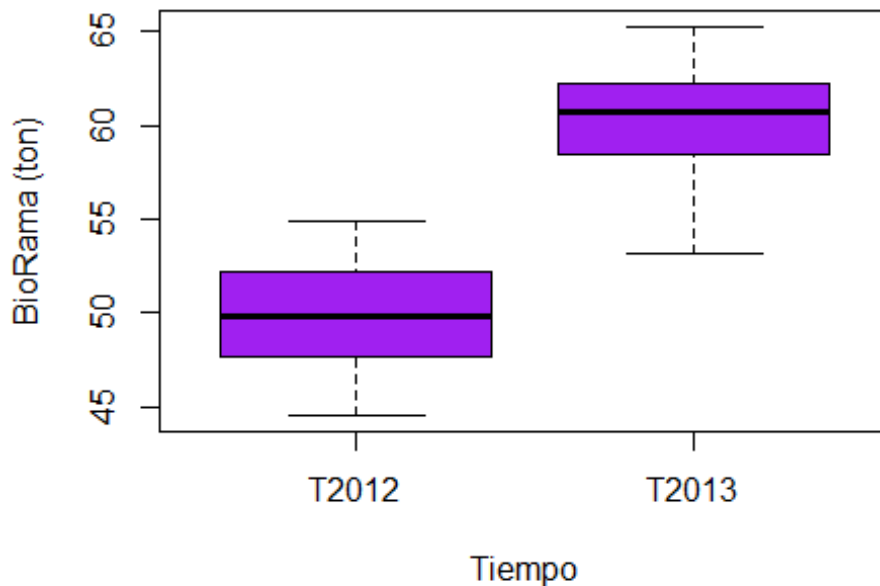


```
t.test(datos$Kgsem ~ datos$Tiempo, paired= TRUE)

##
##  Paired t-test
##
## data:  datos$Kgsem by datos$Tiempo
## t = -1.2538, df = 49, p-value = 0.2159
## alternative hypothesis: true difference in means is not equal to 0
```

```
## 95 percent confidence interval:
##  -2.0530953  0.4754953
## sample estimates:
## mean of the differences
##                   -0.7888
```

```
boxplot(datos$BioRama ~datos$Tiempo, col="Purple", xlab = "Tiempo", ylab
= "BioRama (ton)")
```



```
t.test(datos$BioRama ~ datos$Tiempo, paired= TRUE)
```

```
##
##  Paired t-test
##
## data:  datos$BioRama by datos$Tiempo
## t = -19.428, df = 49, p-value < 2.2e-16
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  -11.651431  -9.466969
## sample estimates:
## mean of the differences
##                   -10.5592
```

```
boxplot(datos$Germ ~ datos$Tiempo, col="Pink", xlab = "Tiempo", ylab =
"Germinacion(%)")
```
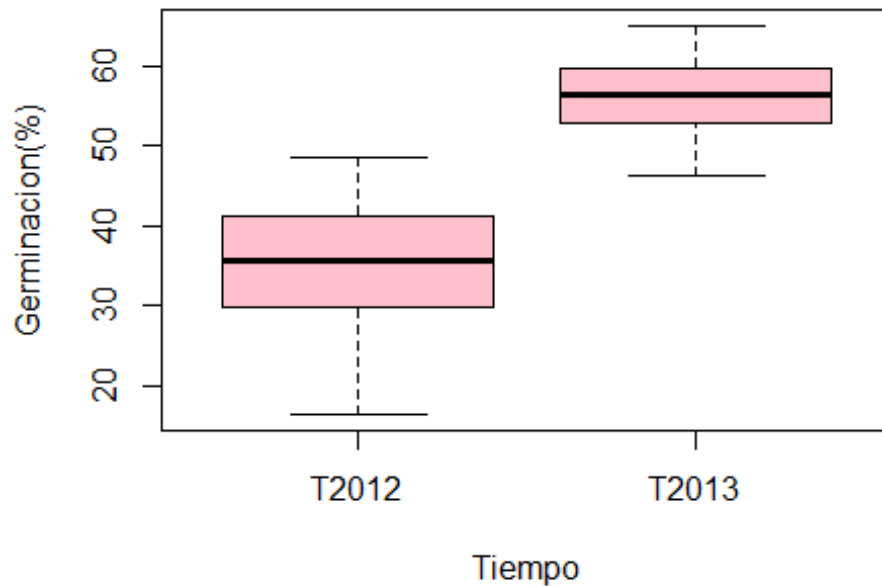
```
t.test(datos$Germ ~ datos$Tiempo, paired = TRUE)

##
##  Paired t-test
##
## data:  datos$Germ by datos$Tiempo
## t = -16.678, df = 49, p-value < 2.2e-16
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  -23.14844 -18.16996
## sample estimates:
## mean of the differences
##                -20.6592
```