

#Pruebas de varianzas #24/02/2025

```
library(repmis)
```

```
localidad <- source_data("https://www.dropbox.com/s/fbrwxypacjgeayj/Datos_Rascon_Anova.csv?dl=1")  
boxplot (localidad$DAP ~ localidad$Paraje) shapiro.test(localidad$DAP)  
shapiro.test(localidad$EDAD) hist(localidad$DAP) bartlett.test(localidad$DAP ~ localidad$Paraje) d50 <-  
rnorm (50, mean = 0, sd = 1) hist(d50)
```

```
d100 <- rnorm (50, mean = 0, sd = 1) hist(d100)
```

```
d1000 <- rnorm (50, mean = 0, sd = 1) hist(d1000)
```

```
#Transformar x (DAP), usando log10 localidad$DAP_log <- log10(localidad$DAP + 1) localidad$DAP_log <-  
round(log10(localidad$DAP + 1),2) shapiro.test(localidad$DAP_log) library(e1071) skewness(localidad$DAP)  
skewness(localidad$DAP_log)
```

```
localidad$sqrt <- round(sqrt(localidad$DAP + 1),2) skewness(localidad$sqrt) shapiro.test(localidad$sqrt)
```

```
bartlett.test(localidad$sqrt ~ localidad$Paraje) hist(localidad$sqrt)
```

```
trans.sqrt <- localidad[, -6] trans.sqrt
```

```
#anova
```

```
dap.anova <- aov(localidad$sqrt ~ localidad$Paraje)
```

```
dap.anova summary(dap.anova)
```

```
TukeyHSD(dap.anova)
```

```
plot(TukeyHSD(dap.anova), las = 1)
```

```
text(1,7,"a") text(2,7,"b") mtext("Parajes",side = 3)
```

```
boxplot (localidad$sqrt ~ localidad$Paraje, col = "indianred", xlab = "Parajes", ylab = "DAP (cm)") text(1,7,"b")  
text(2,7,"c") text(3,7,"a") text(4,7,"bc")
```

```
#Para agregar las letras de diferenciación podemos utilizar #la libreria mulcompView
```