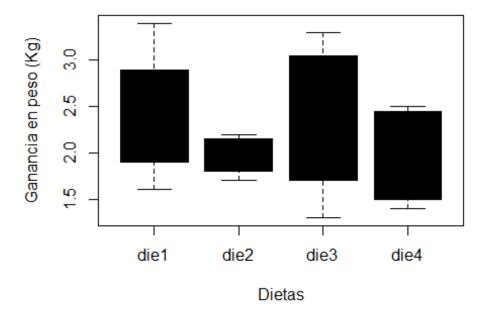
Clase-4.R

USUARIO

```
# Martin Raziel Valdez Maya
# 20/05/2024
# 2133644
# Experimento ganancia en peso (GP) basado en diferentes niveles d -----
die1 \leftarrow c(2.4, 2.2, 3.4, 1.6)
die2 \leftarrow c(2.2, 1.9, 1.7, 2.1)
die3 \leftarrow c(3.3, 1.3, 2.8, 2.1)
die4 \leftarrow c(1.6, 2.5, 1.4, 2.4)
# Sumatoria de gurpos /bloques ------
# Para peso bajo sumar la ganancia en peso ------
sum(die1[1]+die2 [1]+die3[1]+die4[1])
## [1] 9.5
sum(die1[2]+die2 [2]+die3[2]+die4[2])
## [1] 7.9
sum(die1[3]+die2 [3]+die3[3]+die4[3])
## [1] 9.3
sum(die1[4]+die2[4]+die3[4]+die4[4])
## [1] 8.2
# Sumatoria de las dietas independientes de grupo/bloques ------
sum(die1); sum(die2); sum(die3); sum(die4)
## [1] 9.6
## [1] 7.9
```

```
## [1] 9.5
## [1] 7.9
GP <- c(die1, die2, die3, die4)
Trat <- gl(4,4,16, labels = c("die1","die2","die3","die4"))
Bloq <- gl(4,4,16, labels = c("Bajo","Normal","SP", "OB"))</pre>
Dietas <- data.frame(Trat,Bloq,GP)</pre>
head(Dietas)
##
      Trat
              Bloq GP
## 1 die1
              Bajo 2.4
## 2 die1
              Bajo 2.2
## 3 die1
              Bajo 3.4
## 4 die1
              Bajo 1.6
## 5 die2 Normal 2.2
## 6 die2 Normal 1.9
boxplot(Dietas$GP~Dietas$Trat,
         col = "black",
         xlab = "Dietas",
         ylab = "Ganancia en peso (Kg)")
```



```
tapply(Dietas$GP, Dietas$Trat, var)
## die1 die2 die3 die4
## 0.56000000 0.04916667 0.75583333 0.30916667
```

```
fligner.test(Dietas$GP, Dietas$Trat)
##
## Fligner-Killeen test of homogeneity of variances
##
## data: Dietas$GP and Dietas$Trat
## Fligner-Killeen:med chi-squared = 4.6369, df = 3, p-value = 0.2004
bartlett.test(Dietas$GP, Dietas$Trat)
##
## Bartlett test of homogeneity of variances
##
## data: Dietas$GP and Dietas$Trat
## Bartlett's K-squared = 4.1152, df = 3, p-value = 0.2493
diet.aov <- aov(Dietas$GP~Dietas$Trat)</pre>
summary(diet.aov)
##
               Df Sum Sq Mean Sq F value Pr(>F)
## Dietas$Trat 3 0.682 0.2273
                                  0.543 0.662
## Residuals 12 5.022 0.4185
```