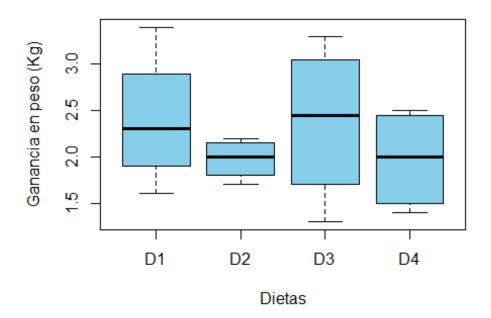
## DA\_ANOVA2.R

## **USUARIO**

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```
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## 20/05/2024
# Experimento ganancia en peso (GP) basado en diferentes
# Niveles de factor: 4 dietas (D1, D1, D3, D4)
D1 \leftarrow c(2.4, 2.2, 3.4, 1.6)
D2 \leftarrow c(2.2, 1.9, 1.7, 2.1)
D3 \leftarrow c(3.3, 1.3, 2.8, 2.1)
D4 \leftarrow c(1.6, 2.5, 1.4, 2.4)
D1[1]
## [1] 2.4
D2[2]
## [1] 1.9
## Para peso bajo sumar la ganancia en peso
sum(D1[1]+D2[1]+D3[1]+D4[1])
## [1] 9.5
sum(D1[2]+D2[2]+D3[2]+D4[2])
## [1] 7.9
sum(D1[3]+D2[3]+D3[3]+D4[3])
## [1] 9.3
sum(D1[4]+D2[4]+D3[4]+D4[4])
## [1] 8.2
## Suamtoria de las dietas independientes de grupo
sum(D1); sum(D2); sum(D3); sum(D4)
## [1] 9.6
## [1] 7.9
## [1] 9.5
```

```
## [1] 7.9
# Ganancia en peso, Tratamientos y Bloques
GP <- c(D1,D2,D3,D4)
Trat <- gl(4,4,16, labels = c("D1","D2","D3","D4"))</pre>
Bloq <- gl(4,4,16, labels = c("Bajo", "Normal", "SP", "OB"))
Dietas <- data.frame(Trat,Bloq,GP)</pre>
head(Dietas)
##
     Trat
            Bloq GP
## 1
       D1
            Bajo 2.4
## 2
       D1
            Bajo 2.2
## 3
       D1
            Bajo 3.4
            Bajo 1.6
## 4
       D1
## 5
       D2 Normal 2.2
## 6
       D2 Normal 1.9
boxplot(Dietas$GP~Dietas$Trat, col = "skyblue", xlab = "Dietas",
        ylab = "Ganancia en peso (Kg)")
```



```
tapply(Dietas$GP, Dietas$Trat, var)
## D1 D2 D3 D4
## 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$Trat 3 0.682 0.2273
                                   0.543 0.662
             12 5.022 0.4185
## Residuals
Di2.aov <- aov(Dietas$GP ~ Dietas$Trat + Dietas$Bloq)</pre>
summary(Di2.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
```