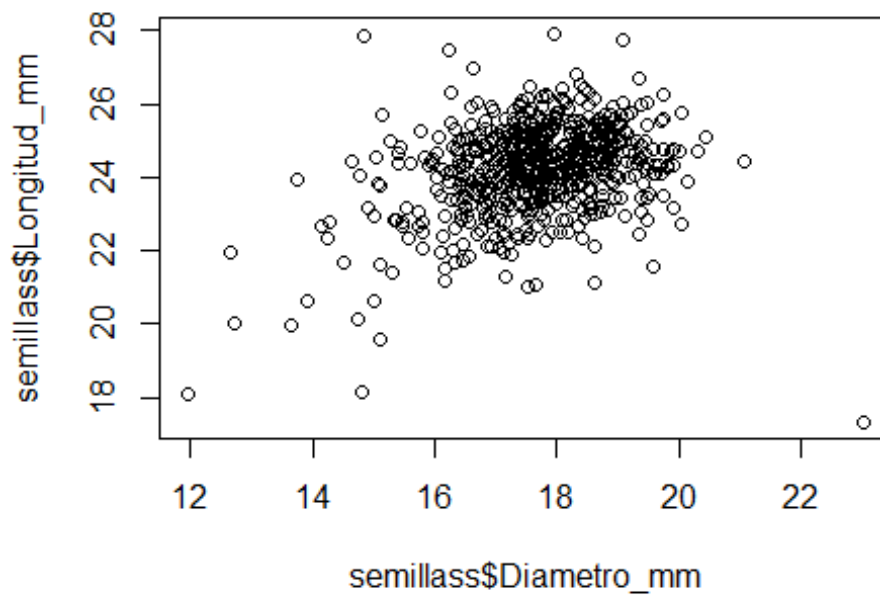


semana-13.R

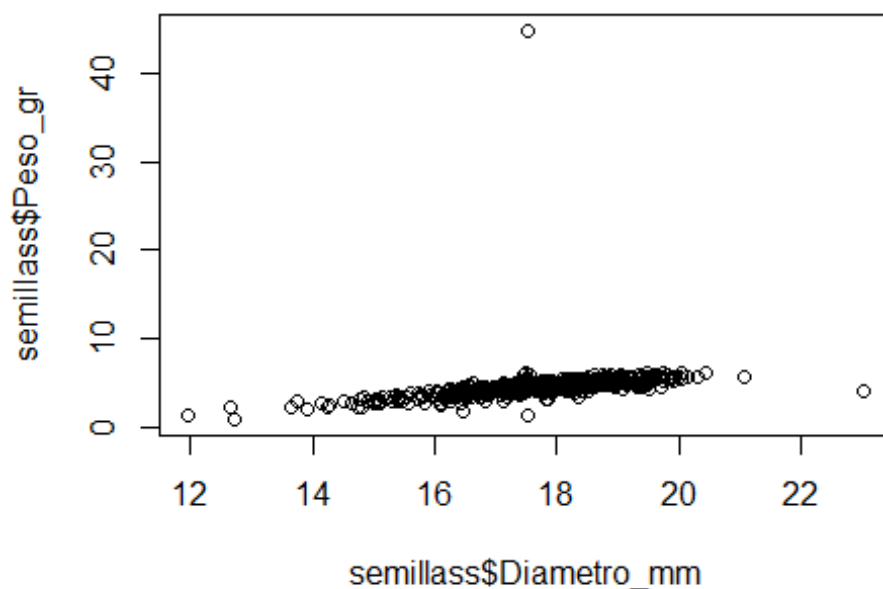
Usuario

2022-05-25

```
#MZZ  
#27/04/2022  
#Clase 13  
  
semillass <- read.csv("semillas.csv" , header = TRUE)  
  
#Revisar mediante una grafica si existe una asociacion entre  
#el diametro de la semilla y la longitud  
  
plot(semillass$Diametro_mm, semillass$Longitud_mm)
```



```
plot(semillass$Diametro_mm, semillass$Peso_gr)
```



```
cor.test(semillass$Diametro_mm, semillass$Peso_gr)

##
## Pearson's product-moment correlation
##
## data: semillass$Diametro_mm and semillass$Peso_gr
## t = 9.2804, df = 597, p-value < 2.2e-16
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
## 0.2830113 0.4231469
## sample estimates:
## cor
## 0.3550722

cor.test(semillass$Diametro_mm, semillass$Longitud_mm)

##
## Pearson's product-moment correlation
##
## data: semillass$Diametro_mm and semillass$Longitud_mm
## t = 8.3176, df = 597, p-value = 6.1e-16
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
## 0.2485619 0.3922412
## sample estimates:
## cor
## 0.3222562
```

```

x <-c(10.0, 8.0, 13.0, 9.0, 11.0, 14.0, 6.0, 4.0, 12.0, 7.0, 5.0)
y <-c(8.04, 6.95, 7.58, 8.81, 8.33, 9.96, 7.24, 4.26, 10.84, 4.82, 5.68)

x1 <-c(10, 8, 13, 9, 11, 14, 6, 4, 12, 7, 5)
y1 <-c(9.14, 8.14, 8.74, 8.77, 9.26, 8.10, 6.13, 3.10, 9.13, 7.26, 4.74)

x2 <-c(10, 8, 13, 9, 11, 14, 6, 4, 12, 7, 5)
y2 <-c(7.46, 6.77, 12.74, 7.11, 7.81, 8.84, 6.08, 5.39, 8.15, 6.42, 5.73)

x3 <-c(8, 8, 8, 8, 8, 8, 8, 19, 8, 8, 8)
y3 <-c(6.58, 5.76, 7.71, 8.84, 8.47, 7.04, 5.25, 12.50, 5.56, 7.91, 6.8 )

cor.test(x,y)

##
## Pearson's product-moment correlation
##
## data: x and y
## t = 4.2415, df = 9, p-value = 0.00217
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
## 0.4243912 0.9506933
## sample estimates:
## cor
## 0.8164205

cor.test(x1,y1)

##
## Pearson's product-moment correlation
##
## data: x1 and y1
## t = 4.2386, df = 9, p-value = 0.002179
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
## 0.4239389 0.9506402
## sample estimates:
## cor
## 0.8162365

cor.test(x2,y2)

##
## Pearson's product-moment correlation
##
## data: x2 and y2
## t = 4.2394, df = 9, p-value = 0.002176

```

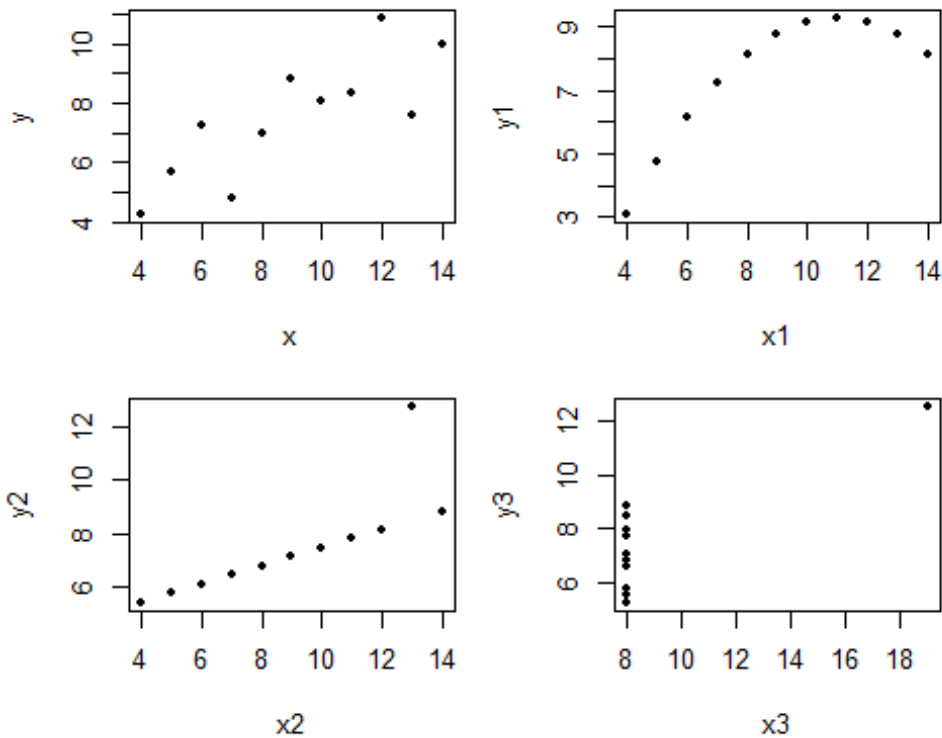
```
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  0.4240623 0.9506547
## sample estimates:
##      cor
## 0.8162867

cor.test(x3,y3)

##
## Pearson's product-moment correlation
##
## data:  x3 and y3
## t = 4.2458, df = 9, p-value = 0.002156
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  0.4250704 0.9507729
## sample estimates:
##      cor
## 0.8166967

op= par(mfrow= c(2,2), mar= c(4.5, 4, 1, 1))

plot(x, y, pch=20)
plot(x1, y1, pch=20)
plot(x2, y2, pch=20)
plot(x3, y3, pch=20)
```



par(op)