

correlacion.R

Usuario

2023-09-25

```
#correlacion
#25/09/23

#JGC

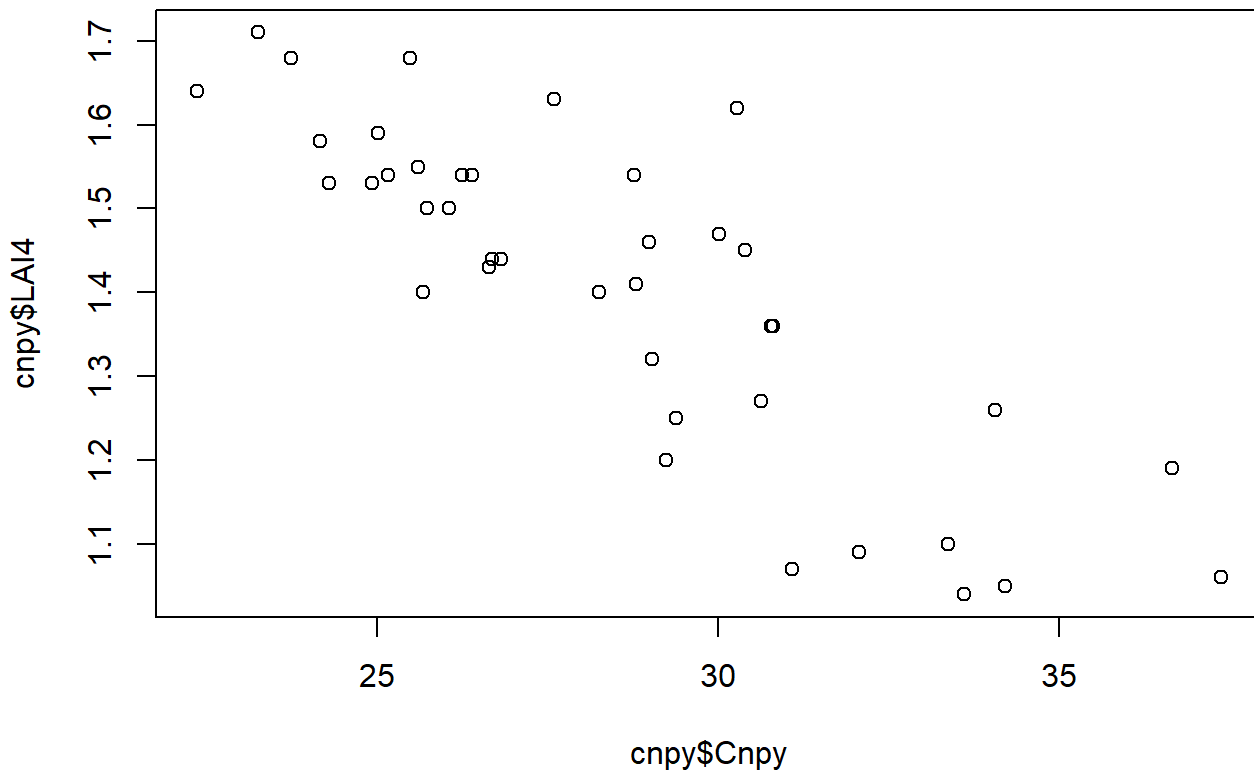
# IMPORTAR -----

setwd ("C:/REPOSITORIO/Met_ES/Scripts")

cnpy <- read.csv("canopy.csv", header = T)
cnpy$Forest <- as.factor(cnpy$Forest)

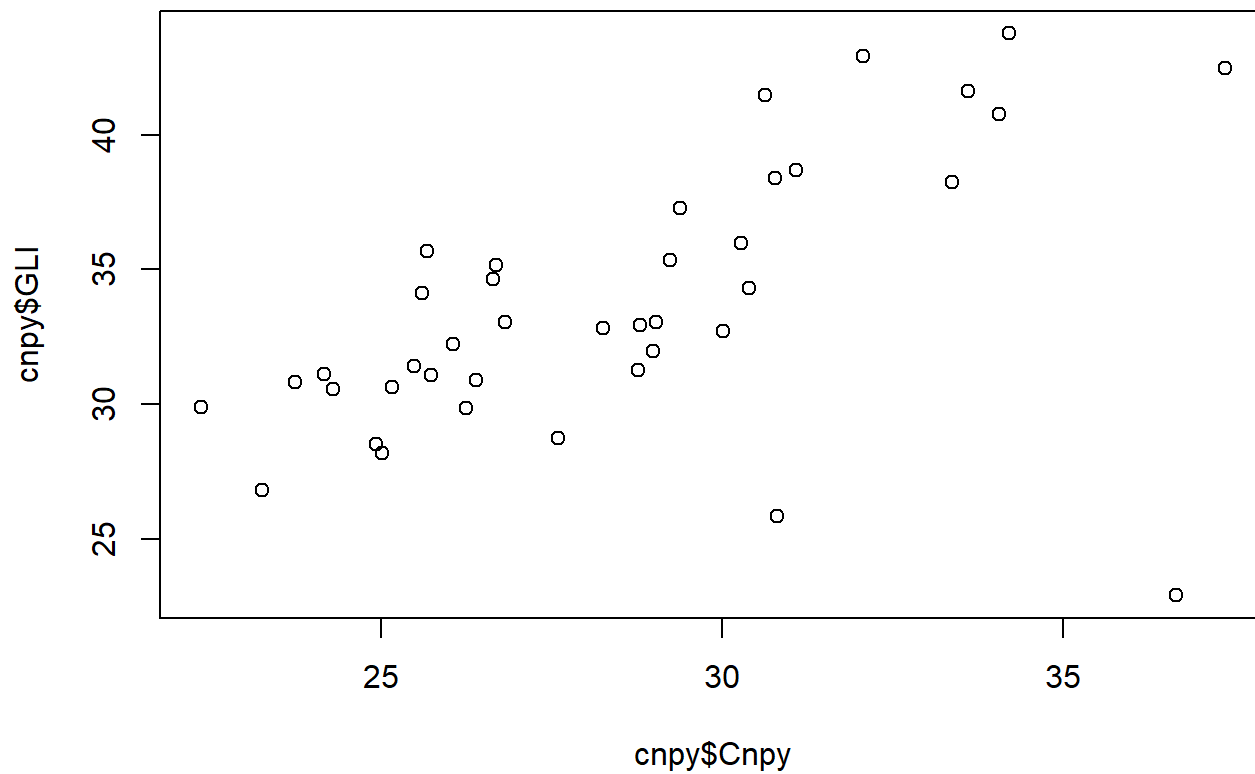
# GRAFICA -----

plot(cnpy$Cnpy, cnpy$LAI4)
```



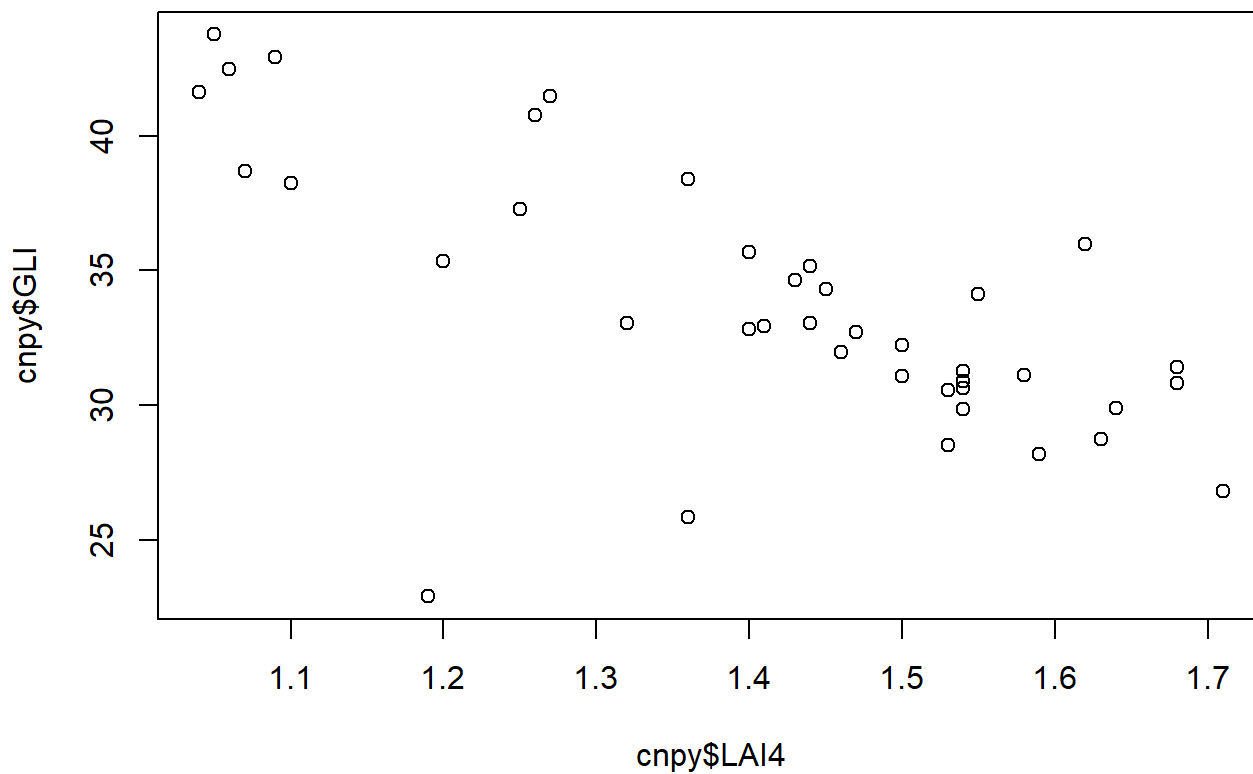
```
#Asociacion negativa entre Cnpy vs LAI4
```

```
plot(cnpy$Cnpy, cnpy$GLI)
```



```
#Asociacion positiva cnpy vs GLI (luz que llega al suelo)
```

```
plot(cnpy$LAI4, cnpy$GLI)
```

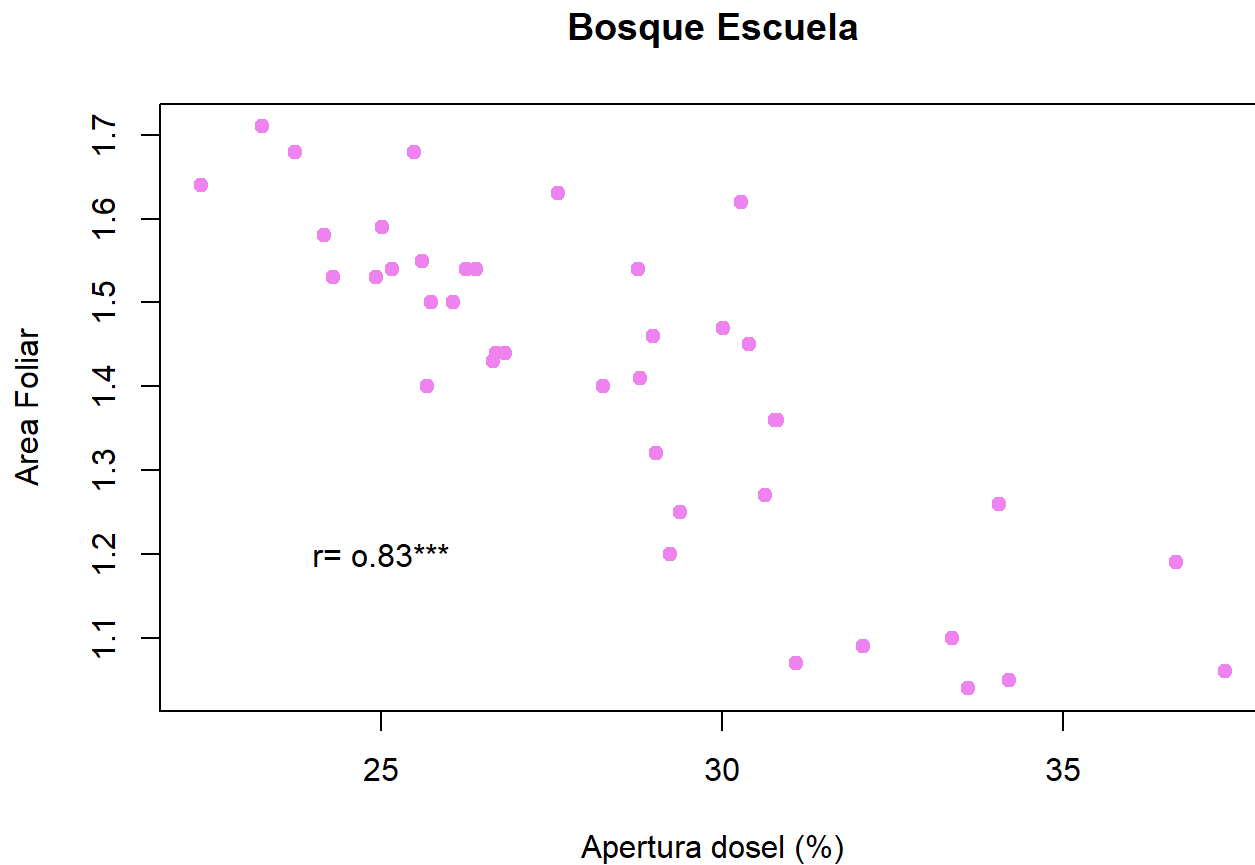


```
#Asociacion negativa entre cnp y vs LAI4

#Personalizar grafica
#Anotar el valor de R dentro de la grafica
plot(cnpy$Cnpy, cnpy$LAI4,
      xlab = "Apertura dosel (%)",
      ylab = "Area Foliar",
      col= "violet",
      pch= 19,
      main = "Bosque Escuela")
cor.test(cnpy$Cnpy, cnpy$LAI4)
```

```
##
## Pearson's product-moment correlation
##
## data: cnpy$Cnpy and cnpy$LAI4
## t = -9.2962, df = 38, p-value = 2.493e-11
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
## -0.9089473 -0.7049143
## sample estimates:
## cor
## -0.833416
```

```
text(25, 1.2, "r= 0.83***")
```

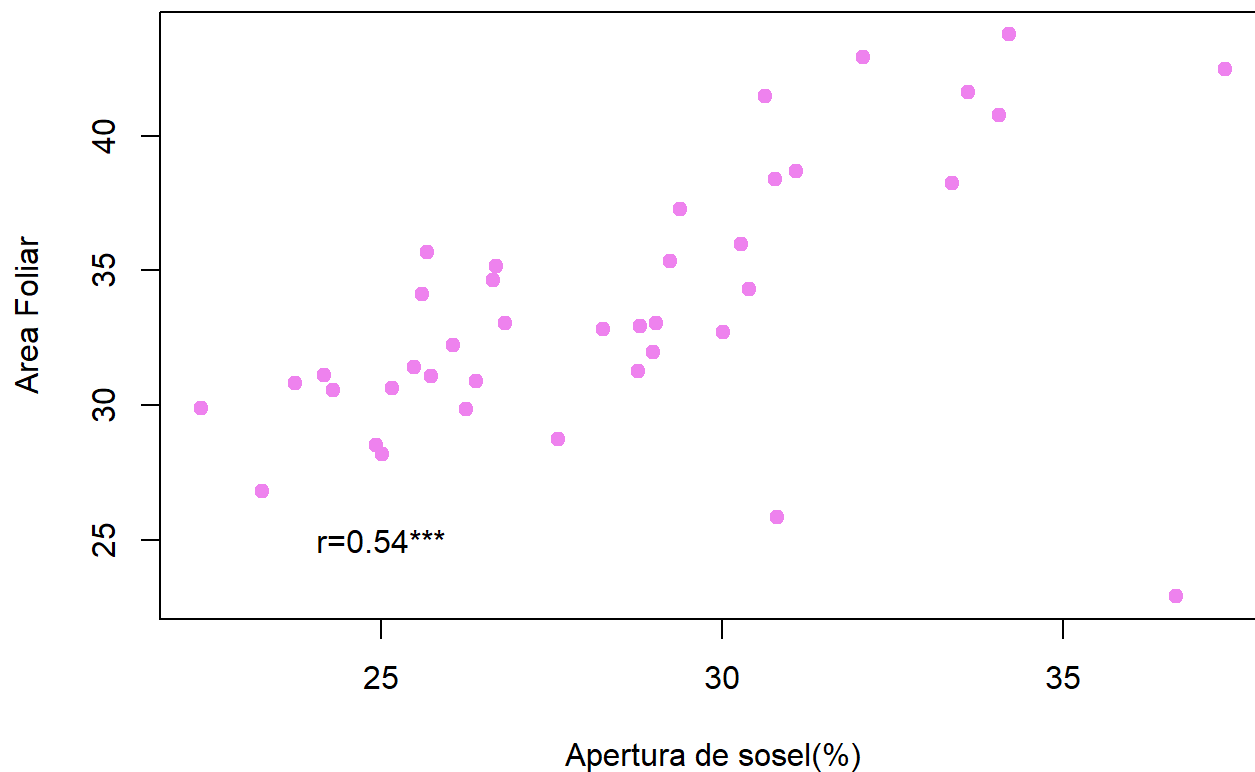


```
plot(cnp$Cnp, cnp$GLI,
     xlab= "Apertura de dosel(%)",
     ylab = "Area Foliar",
     col= "violet",
     pch= 19,
     main = "Bosque Escuela")
cor.test(cnp$Cnp, cnp$GLI)
```

```
##
## Pearson's product-moment correlation
##
## data:  cnp$Cnp and cnp$GLI
## t = 4.0149, df = 38, p-value = 0.0002702
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  0.2822213 0.7326972
## sample estimates:
##      cor
## 0.5457512
```

```
text(25, 1.2, "r=0.54***")
```

Bosque Escuela



```
plot(cnpv$LAI4, cnpy$GLI,
     xlab= "Apertura de sosel(%)",
     ylab = "Area Foliar",
     col= "violet",
     pch= 19,
     main = "Bosque Escuela")
cor.test(cnpv$LAI4, cnpy$GLI)
```

```
##
## Pearson's product-moment correlation
##
## data:  cnpy$LAI4 and cnpy$GLI
## t = -5.8669, df = 38, p-value = 8.669e-07
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
## -0.8239664 -0.4812537
## sample estimates:
##      cor
## -0.6894101
```

```
text(1.3, 30, "r= -0.69***")
```

Bosque Escuela

