clase 6.R

52618

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```
#cipriano guerrero cabrera
#clase 6
# instalar libreria qabminder ------
library(repmis)
## Registered S3 method overwritten by 'R.oo':
##
    method
                 from
##
    throw.default R.methodsS3
edad <- source_data("https://www.dropbox.com/s/nxoijhgmutuho0s/datos_control_Rascon.csv?dl=1")
## Downloading data from: https://www.dropbox.com/s/nxoijhgmutuho0s/datos_control_Rascon.csv?dl=1
## SHA-1 hash of the downloaded data file is:
## 5db2352e6fda9922f4feda0950294d01ac4f7861
edad$SP<-factor(edad$SP)</pre>
str(edad)
                60 obs. of 4 variables:
## 'data.frame':
## $ arbol: int 1 2 3 4 5 6 7 8 9 10 ...
## $ DAP : num 27.4 19.5 20 22 34 33.1 32 10 14 11 ...
## $ EDAD : int 59 29 24 40 50 44 44 17 15 16 ...
         : Factor w/ 2 levels "arizonica", "durangensis": 1 1 1 1 1 1 1 1 1 1 ...
# separar factor ------
ariz<- subset(edad,SP=="arizonica")</pre>
ariz.lm<-lm(ariz$EDAD~ariz$DAP)</pre>
dura<-subset(edad,SP=="durangensis")</pre>
# regresion dos factores ------
cov.edad<-lm(edad$EDAD~edad$DAP+edad$SP)</pre>
summary(cov.edad)
##
## lm(formula = edad$EDAD ~ edad$DAP + edad$SP)
##
## Residuals:
      Min
              1Q Median
                             3Q
                                    Max
## -30.844 -8.515 -1.731 7.473 38.741
## Coefficients:
```

```
Estimate Std. Error t value Pr(>|t|)
##
## (Intercept)
                       -7.6573
                                  5.2903 -1.447
                                                    0.153
## edad$DAP
                        1.9861
                                  0.2342
                                           8.480 1.10e-11 ***
## edad$SPdurangensis 19.0629
                                  4.2942
                                            4.439 4.19e-05 ***
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## Residual standard error: 15.03 on 57 degrees of freedom
## Multiple R-squared: 0.7269, Adjusted R-squared: 0.7174
## F-statistic: 75.87 on 2 and 57 DF, p-value: < 2.2e-16
plot(edad$DAP[edad$SP=="arizonica"],edad$EDAD[edad$SP=="arizonica"],
       col="red", pch=16, xlim=c(0,50), ylim = c(0,130))
abline(cov.edad$coefficients[1],cov.edad$coefficients[2], col="blue")
text(30,20,"Ya=-7.65+1.98*x")
points(edad$DAP[edad$SP == "durangencis"], edad$EDAD[edad$SP == "surangencis"],
       col= "blue", pch="d")
abline(cov.edad$coefficients[1]+cov.edad$coefficients[3],
       cov.edad$coefficients[2],col="blue", lty="dashed")
text(19,100, "Yd=11.41+1.98")
```

