**Fonctions R qui sont pratiques..**

Attach

AIC

tapply

Stepaic

Anova

Summary

Fitted

Predict

Hist

stripplot

qqnorm

write.table

library(car)

library(leaps)

library(lattice)

library(MASS)

**Code du dépannage 7**

con <- url("http://www.math.unicaen.fr/~kauffman/data/crab.RData")

(load(con))

close(con)

crabs.sum =aggregate(rep(1,nrow(X)),by=list(width=X$f.width),sum)

satell.nb =aggregate(X$satell ,by=list(width=X$f.width),sum)

satell.mean =aggregate(X$satell ,by=list(width=X$f.width),mean)

width.mean =aggregate(X$width ,by=list(width=X$f.width),mean)

satell.sd =aggregate(X$satell ,by=list(width=X$f.width),sd)

X.agg.width=data.frame(f.width=crabs.sum[,'width'],nb.crabes=crabs.sum[,'x'],nb.satell=satell.nb[,'x'],width=width.mean[,'x'],satel.mean=satell.mean[,'x'],satel.variance=satell.sd[,'x']^2)

n=length(nb.crabes)

y=rep(0,n)

for (i in 1:n){

y[i]<-crabs.sum[i,2]

}

(nb.satell=satell.nb[,'x'])

a=rep(0,n)

for (i in 1:n){

a[i]<-satell.nb[i,2]

}

b=rep(0,n)

for (i in 1:n){

b[i]<-width.mean[i,2]

}

b

satell.nb[,'x']

#a)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

lin.multiple=lm(y~a+b)

summary(lin.multiple)

anova(lin.multiple)

y

predict(lin.multiple)

plot(residuals(lin.multiple),ylab='lm',xlab='x')

#b)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

glm(y~a+b,family = poisson(link="log"))

glm(y~a+b,family = poisson(link="identity"))

predict(glm(y~a+b,family = poisson(link="identity")))

y

plot(residuals(glm(y~a+b,family = poisson(link="identity"))),ylab='glm',xlab='x')

glm(y~a+b,family = poisson(link="inverse"))