



UNIVERSIDAD AUTÓNOMA DEL ESTADO DE MÉXICO
FACULTAD DE CIENCIAS.
LICENCIATURA EN BIOTECNOLOGÍA
BIOINFORMÁTICA AVANZADA

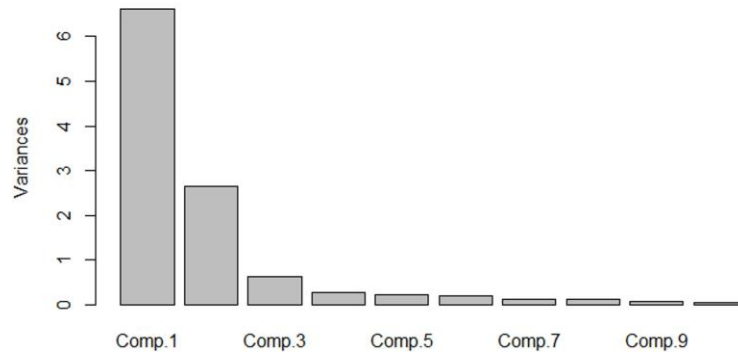


TAREA PCR
LÓPEZ CRUZ NANCY

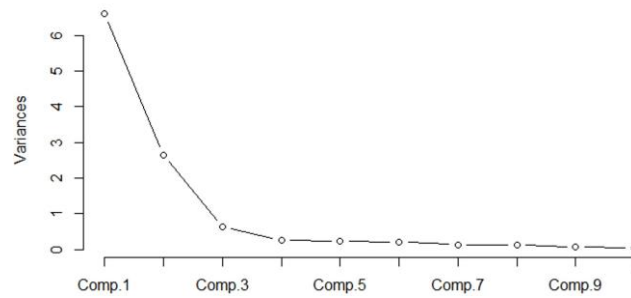
Comandos	Imágenes
<pre>> summary(mtcars) > pcaCars <- princomp(mtcars, cor = TRUE) > names(pcaCars) > summary(pcaCars) > plot(pcaCars) > plot(pcaCars, type = "l") > carsHC <- hclust(dist(pcaCars\$scores), method = "ward.D2") > plot(carsHC) > carsClusters <- cutree(carsHC, k = 3) > plot(carsHC) > rect.hclust(carsHC, k=3, border="red") > carsDf <- data.frame(pcaCars\$scores, "cluster" =factor(carsClusters)) > str(carsDf) > install.packages("ggplot2") > install.packages("ggrepel") > library(ggplot2) > library(ggrepel) > ggplot(carsDf,aes(x=Comp.1, y=Comp.2)) + + geom_text_repel(aes(label = rownames(carsDf))) + + theme_classic() + + geom_hline(yintercept = 0, color = "gray70") + + geom_vline(xintercept = 0, color = "gray70") + + geom_point(aes(color = cluster), alpha = 0.55, size = 3) + + xlab("PC1") + + ylab("PC2") + + xlim(-5, 6) + + ggtitle("PCA plot of Cars")</pre>	

RESULTADOS

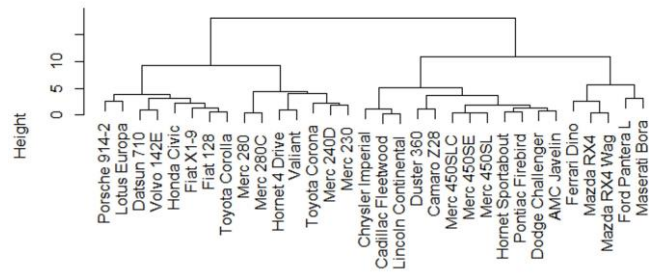
pcaCars



pcaCars

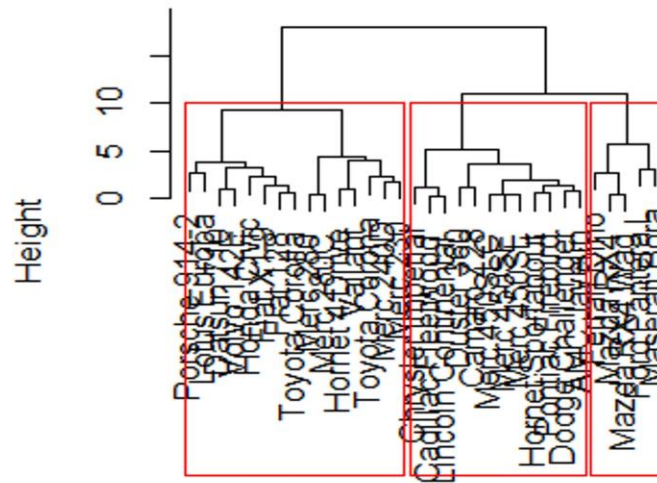


Cluster Dendrogram



```
dist(pcaCars$scores)
hclust(*, "ward.D2")
```

Cluster Dendrogram



```
dist(pcaCars$score)
hclust (*, "ward.D2")
```

