## Figures

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Fig. 1 : Diagrammes en boîte des variables quantitatives de cars

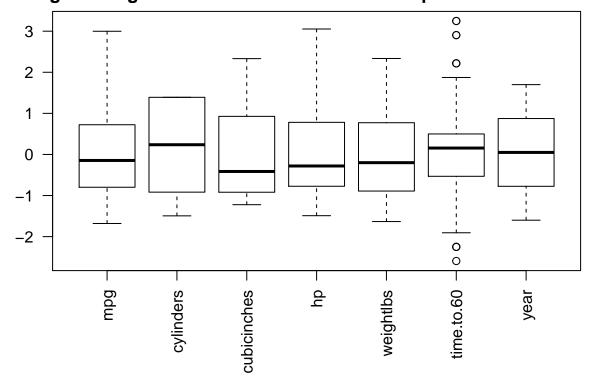
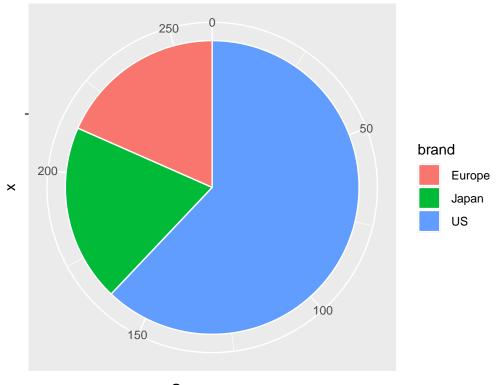


Fig. 2 : Diagramme circulaire de brand

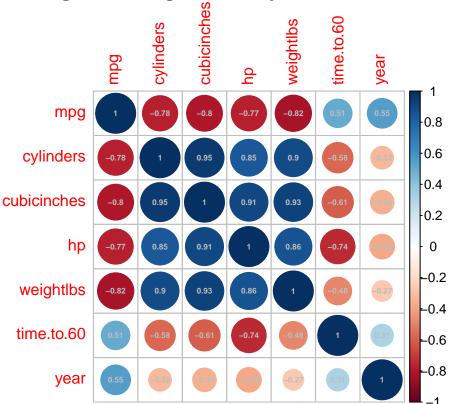


## Occurrences

```
library(corrplot)
```

```
## corrplot 0.88 loaded
```





## library(factoextra)

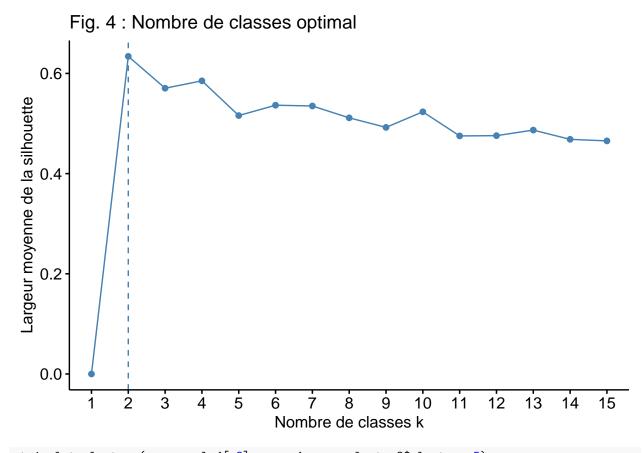
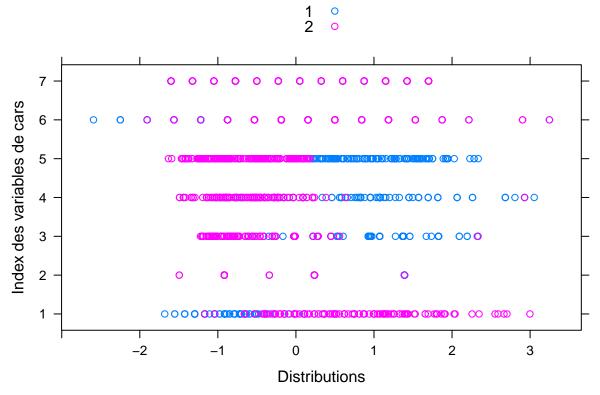
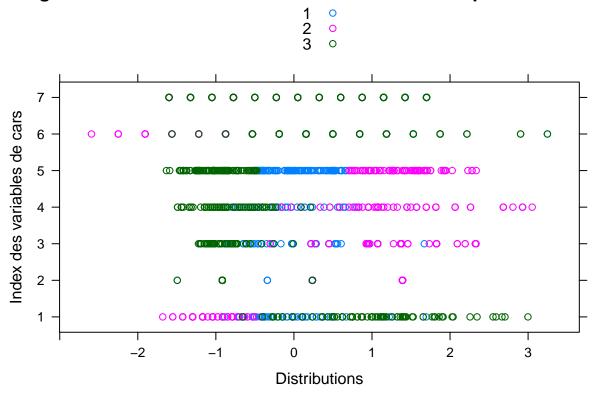


Fig. 5 : Distribution des variables de cars colorées par 2 classes



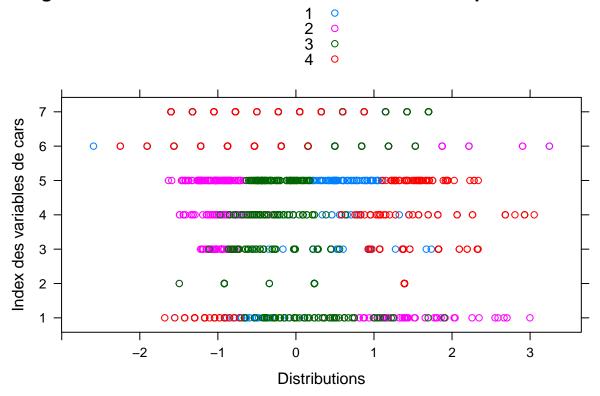
stripplot\_clusters(cars.scaled[-8], cars.kmeans.cluster3\$cluster, 6)

Fig. 6 : Distribution des variables de cars colorées par 3 classes



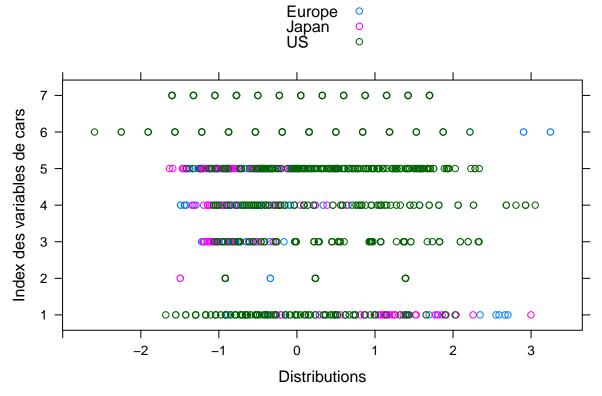
stripplot\_clusters(cars.scaled[-8], cars.kmeans.cluster4\$cluster, 7)

Fig. 7 : Distribution des variables de cars colorées par 4 classes



stripplot\_clusters(cars.scaled[-8], cars\$brand, 8)

Fig. 8 : Distribution des variables de cars colorées par 3 classes



stripplot\_clusters(cars.scaled[-8], cars.combined.brand, 9)

Fig. 9 : Distribution des variables de cars colorées par 2 classes

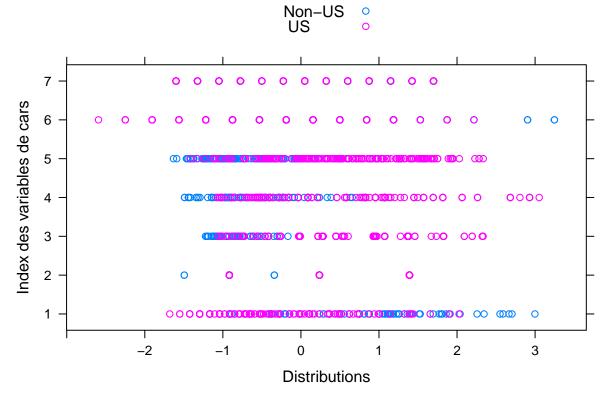


Fig. 10 : Inertie du dendrogramme en fonction du nombre de classe

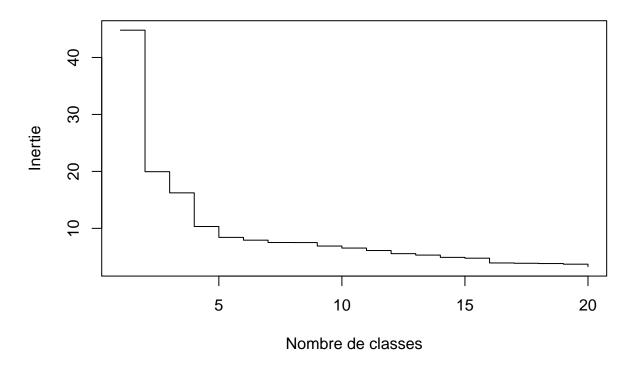
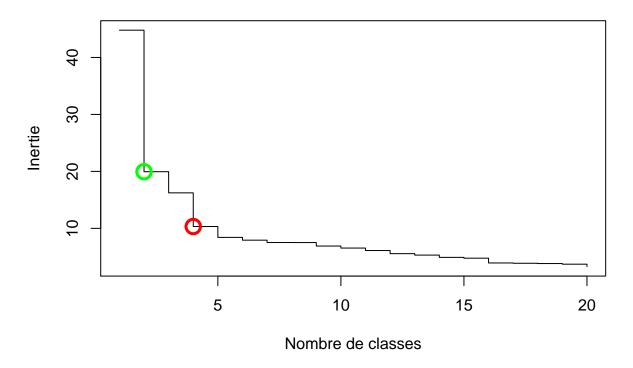


Fig 11. Inertie du dendrogramme avec plus grands gains entoures



```
par(mar=c(1,4.5,2,0))
plot(cars.hc.ward, labels = FALSE,
    main = "Fig. 12 : Partitions en 2 ou 4 classes",
    ylab = "Hauteur",
    hang = -1)
rect.hclust(cars.hc.ward, 2, border = "green")
rect.hclust(cars.hc.ward, 4, border = "red")
```

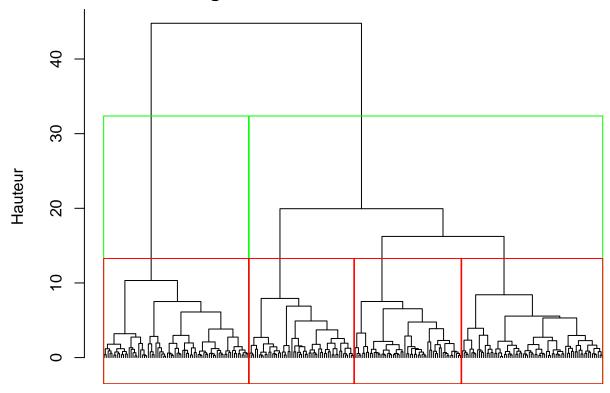
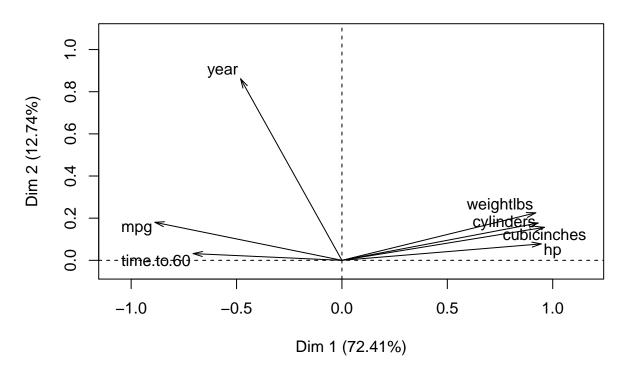


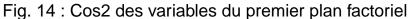
Fig. 12 : Partitions en 2 ou 4 classes

library(FactoMineR)
plot(cars.pca, choix="var", axes=1:2, title="Fig. 13 : Variables representees sur le premier plan factor

Fig. 13: Variables representees sur le premier plan factoriel



fviz\_cos2(cars.pca, "var", axes = 1:2, title = "Fig. 14 : Cos2 des variables du premier plan factoriel"



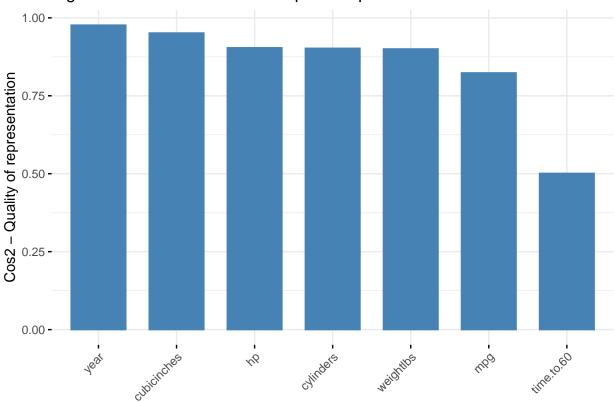


Fig. 15 : Dendrogramme de la HCPC

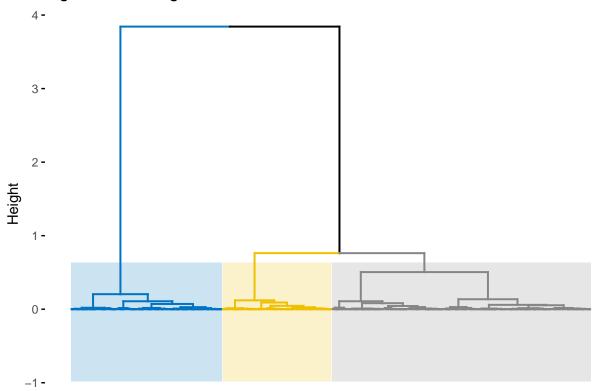


Fig. 16: Classes trouvees par l'HCPC projetees sur le premier plan factoriel

