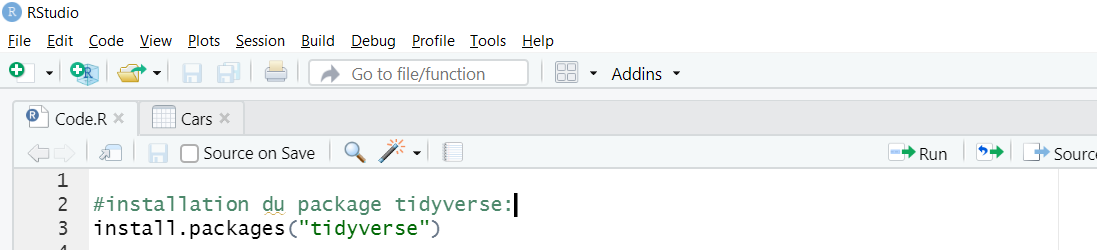
**Introduction :**

On cherche à étudier en utilisant l’analyse en composante principales des modèles de voitures (puissance, accélération, etc.…) à partir d’un fichier csv et déterminer si l’on peut trouver des informations pertinentes.

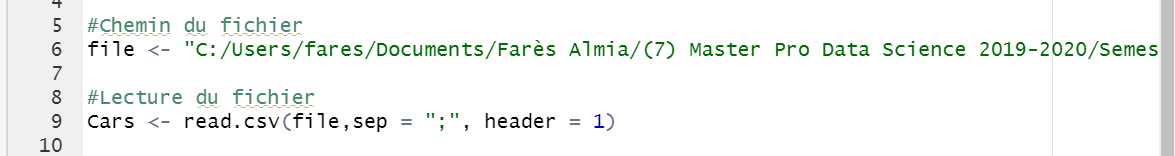
Lien du fichier csv : https://perso.telecom-paristech.fr/eagan/class/igr204/datasets



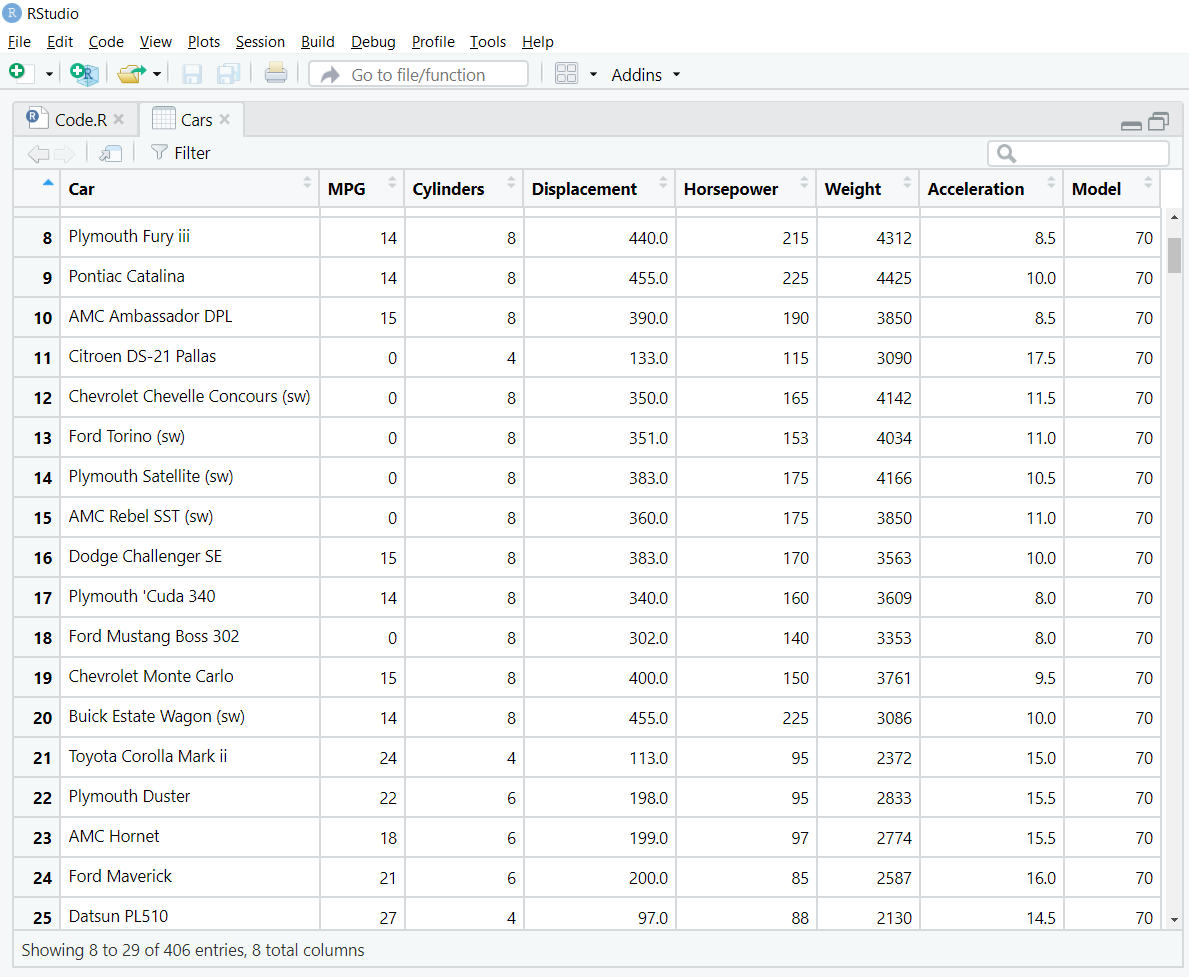
**Library:**

Library(tidyverse)

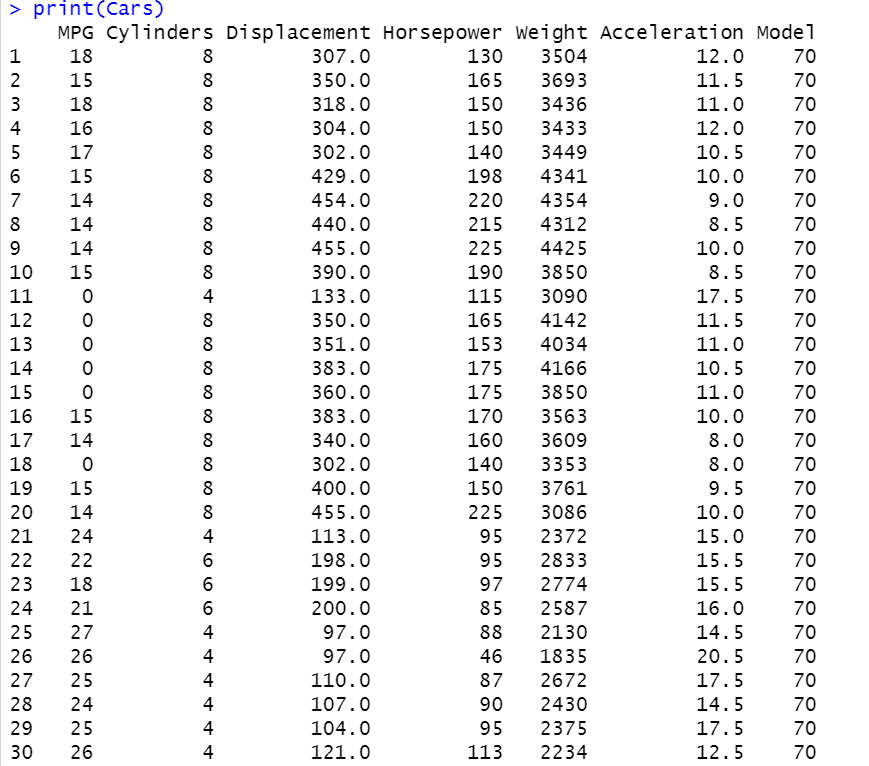
**Importation du dataset:**



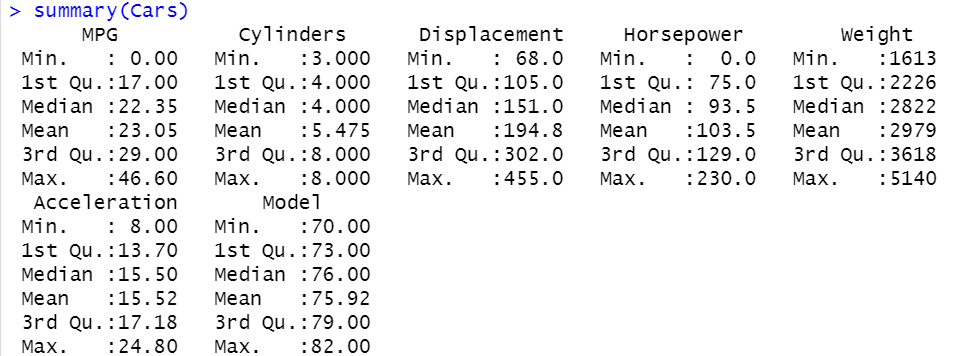
**View:**



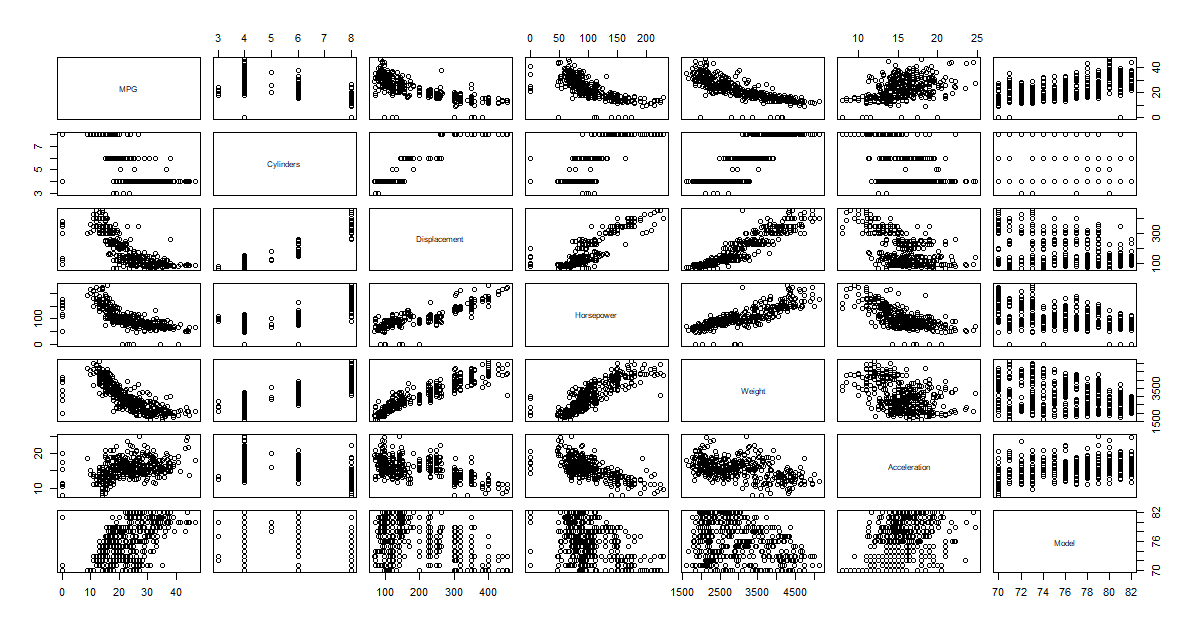
**Print:**



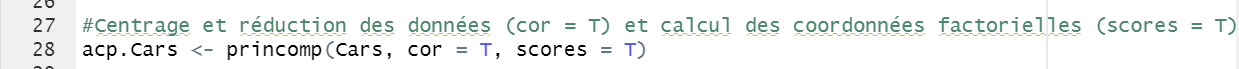
**Summary:**

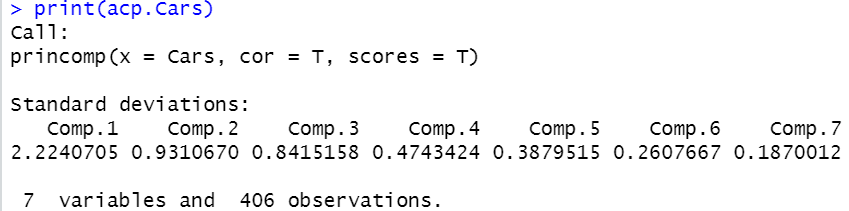


**Nuage de points:**

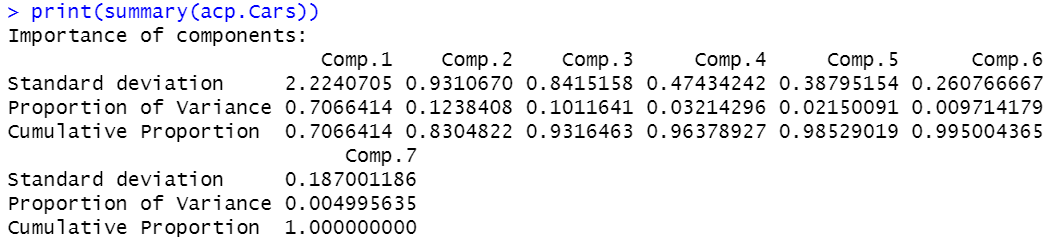


**Centrage et réduction des données**:

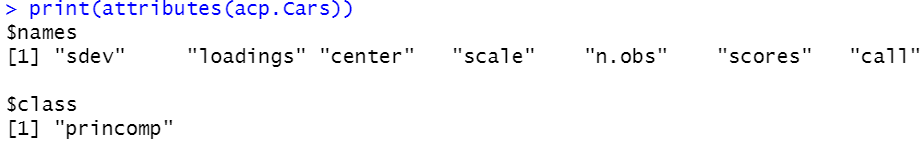




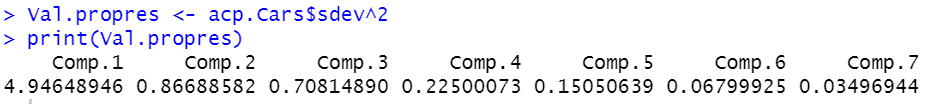
**Summary:**



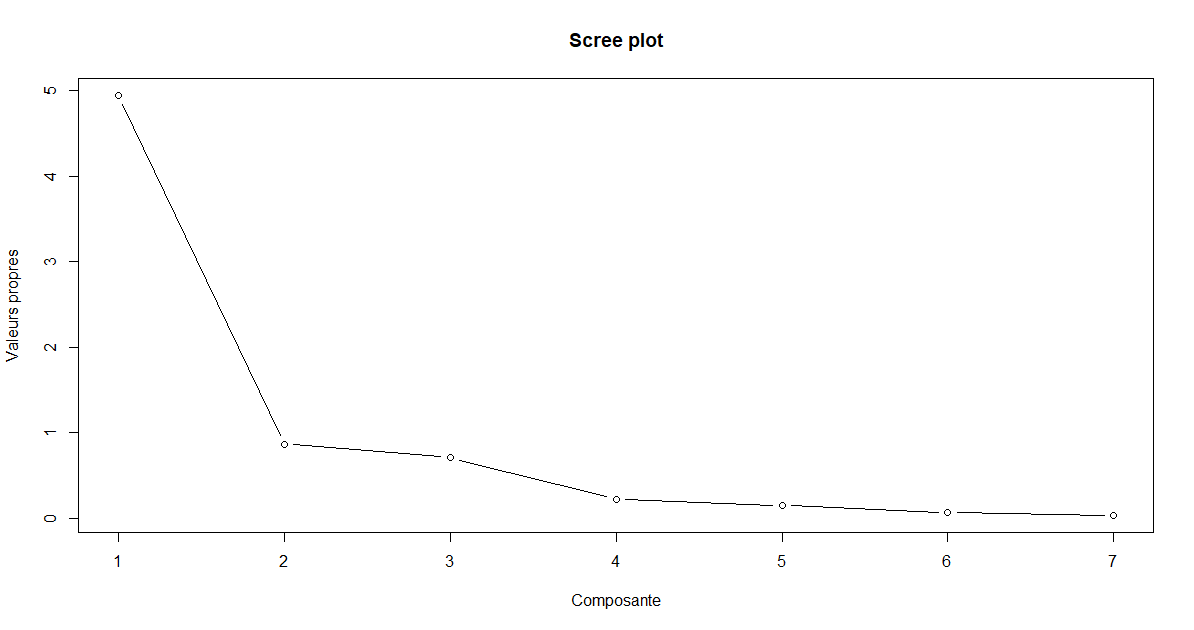
**Print attributes:**



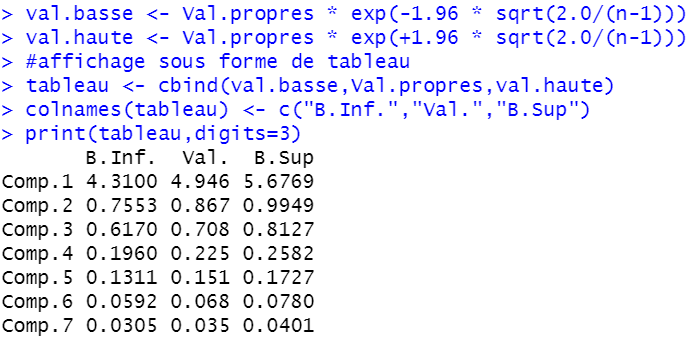
**Valeurs propres:**



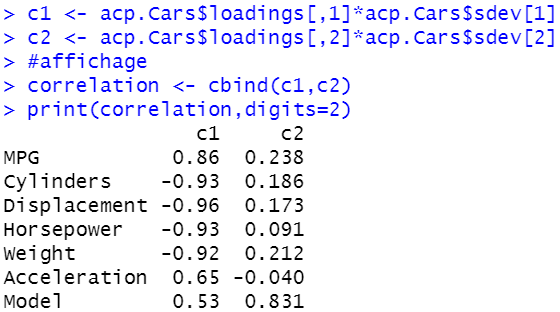
**Scree plot (graphique des éboulis des valeurs propres):**



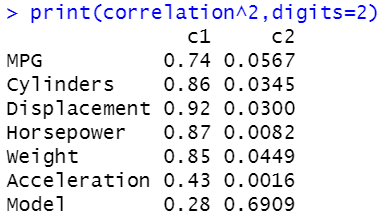
**Intervalle de confiance des val.propres à 95% avec affichage sous forme de tableau:**



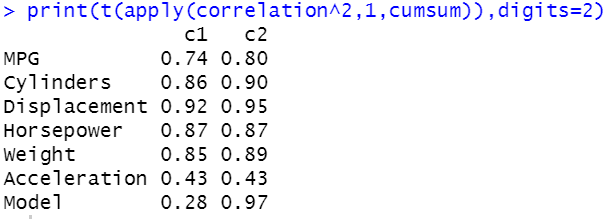
**Corrélation variables-facteurs:**



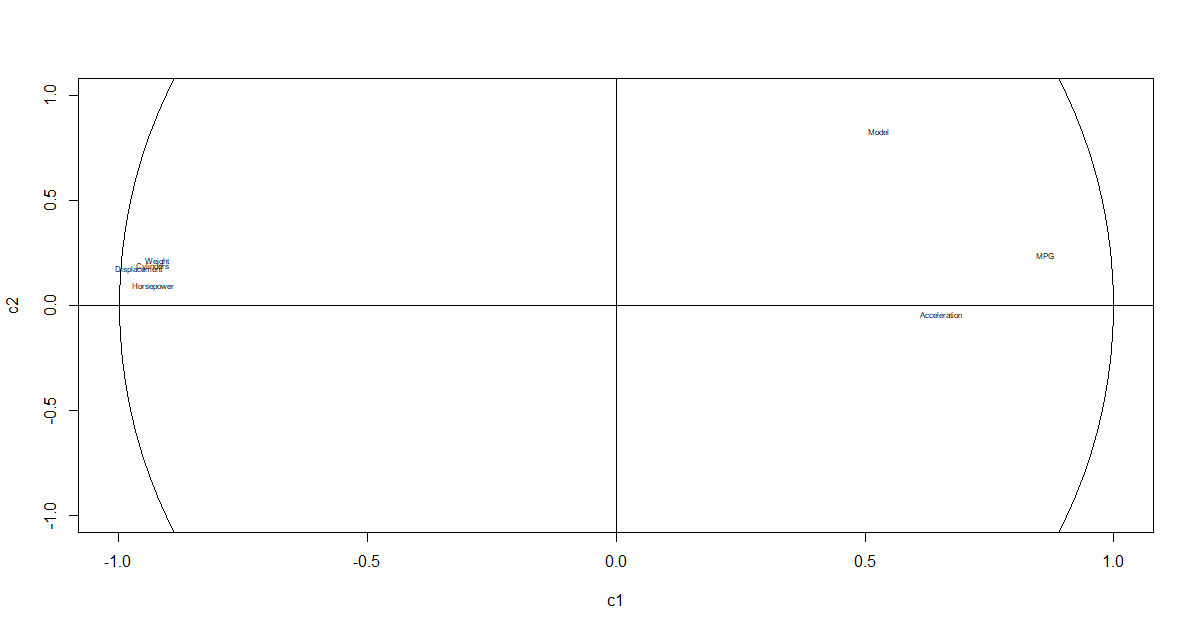
**Carrés de la corrélation:**



**Cumul carrés de la corrélation :**



**Cercle des corrélations :**



**Scores:**

