## Chargement des librairies

```
library(FactoMineR)
library(factoextra)

## Le chargement a nécessité le package : ggplot2

## Welcome! Want to learn more? See two factoextra-related books at https://goo.gl/ve3WBa
```

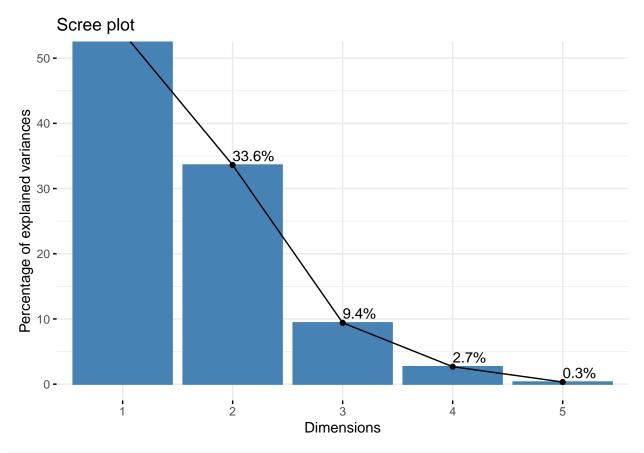
## Chargement des données

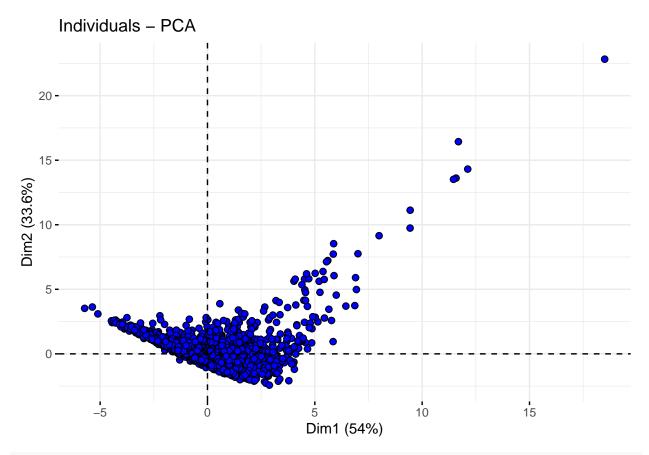
```
# Importation des données
data <- read.csv("data/data.csv", sep = ",", dec=".")</pre>
```

## Choix des variables à intégrer dans l'analyse factorielle

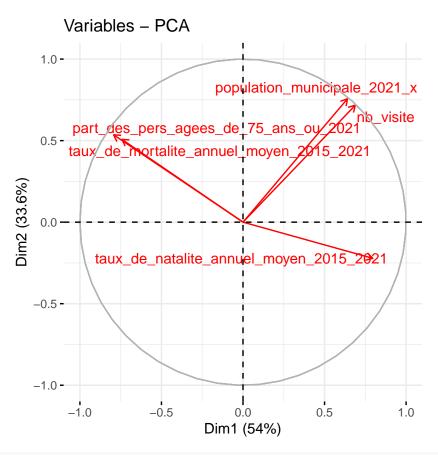
## Mise en oeuvre de l'Analyse factorielle

```
# Vérification du type des variables
str(data_acp)
## 'data.frame':
                   3273 obs. of 5 variables:
## $ nb_visite
                                             : int 23587 3842 4368 4519 3953 4848 13495 12398 6082 48
## $ population_municipale_2021_x
                                             : int 14854 3409 3336 4065 3636 3434 16295 9239 4877 336
## $ taux_de_mortalite_annuel_moyen_2015_2021: num 9.2 7.1 4.4 5.7 5.2 8.4 8.9 13.4 6 4.7 ...
## $ taux_de_natalite_annuel_moyen_2015_2021 : num 15.4 8.8 10.9 11 10.9 14.5 13.7 10.2 8.8 12.6 ...
## $ part_des_pers_agees_de_75_ans_ou_2021
                                            : num 9 10 8.9 6.2 9.1 6.3 7.9 13.9 9 7.4 ...
# Réaliser l'ACP
resultat_acp <- PCA(data_acp, scale.unit = TRUE, ncp = 5, graph = FALSE)
# Afficher le diagramme des valeurs propres
fviz_eig(resultat_acp, addlabels = TRUE, ylim = c(0, 50))
```



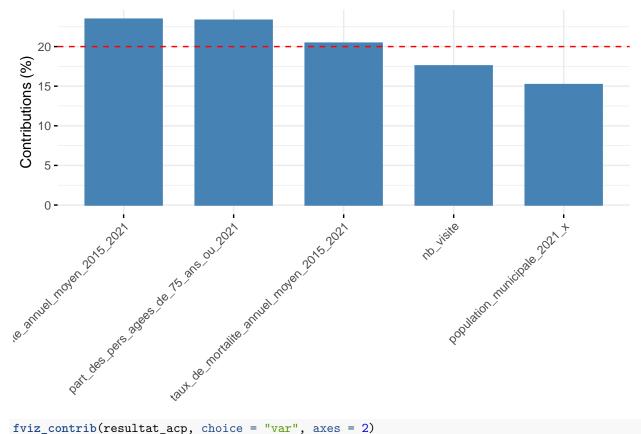


fviz\_pca\_var(resultat\_acp, col.var = "red", repel = TRUE)



# Afficher les contributions des variables
fviz\_contrib(resultat\_acp, choice = "var", axes = 1)





fviz\_contrib(resultat\_acp, choice = "var", axes = 2)

