

```
library(readxl)
library(FactoMineR)
library(psych)

olympic88 <- read_excel("olympic88.xlsx", sheet="Sheet1", col_names=TRUE)
olympic88

# Basic PCA on the numerical variables :
res.PCA = PCA(olympic88[,1:10], scale.unit=TRUE, ncp=3, graph=F)
res.PCA

summary(res.PCA)

# Basic plot of the PCA :
par(mfrow=c(1,2))
plot.PCA(res.PCA, axes=c(1, 2), choix="ind")
plot.PCA(res.PCA, axes=c(1, 2), choix="var")

rotfit <-principal(olympic88, rotate="varimax")
rotfit
summary(rotfit)
```