

## Exercise 3

The exercises are not mandatory and need not be handed in, but we still recommend them strongly. This exercise will be discussed in the tutorial online on December 16th, 2022.

### 1 Introduction to PCA and Clustering

Work your way through the the `intro-to-pca-clustering.Rmd` R Markdown file on moodle. We will make use of the US Census API to gather data from the American Community Survey (ACS). This requires an API key that can you obtain from the following website.

- [https://api.census.gov/data/key\\_signup.html](https://api.census.gov/data/key_signup.html)