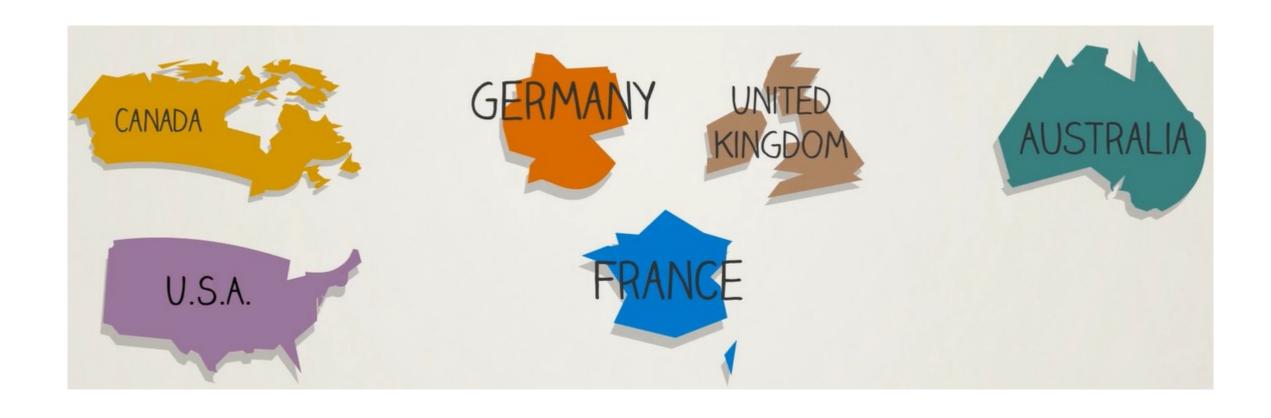
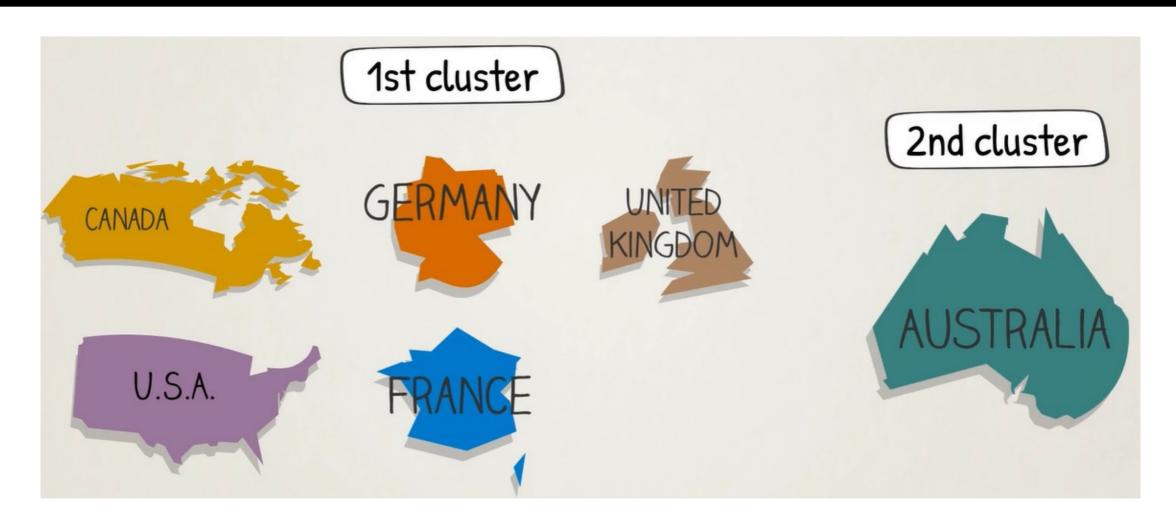
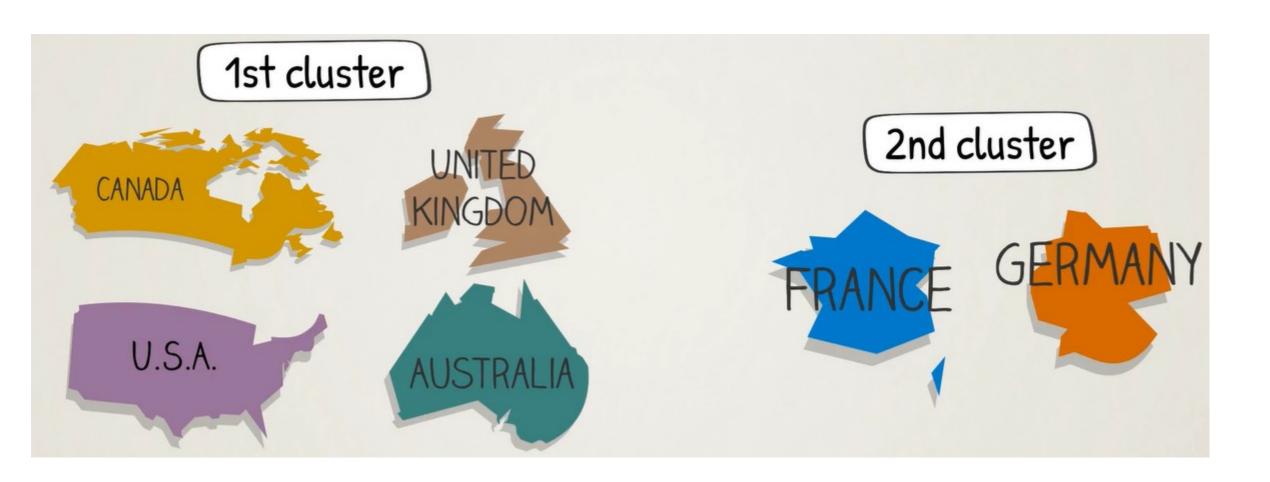
Cluster Analysis

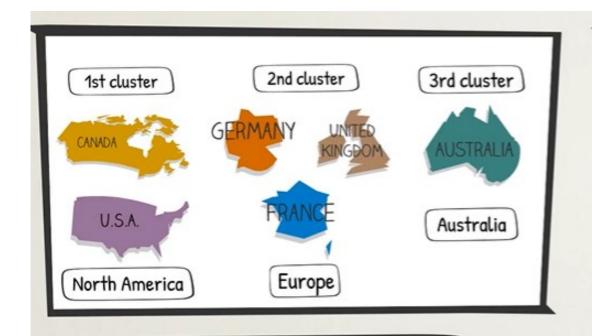
- This is a fundamentally different data science method.
- Technically speaking cluster analysis is a multivariate statistical technique that groups observations on the basis some of their features or variables that are described by.
- Intuitively speaking, observations in a dataset can be divided into different groups and sometimes this is very useful

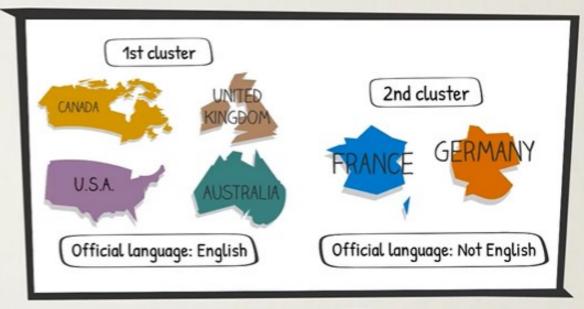












geographic proximity

language

Cluster Analysis – Final Goal

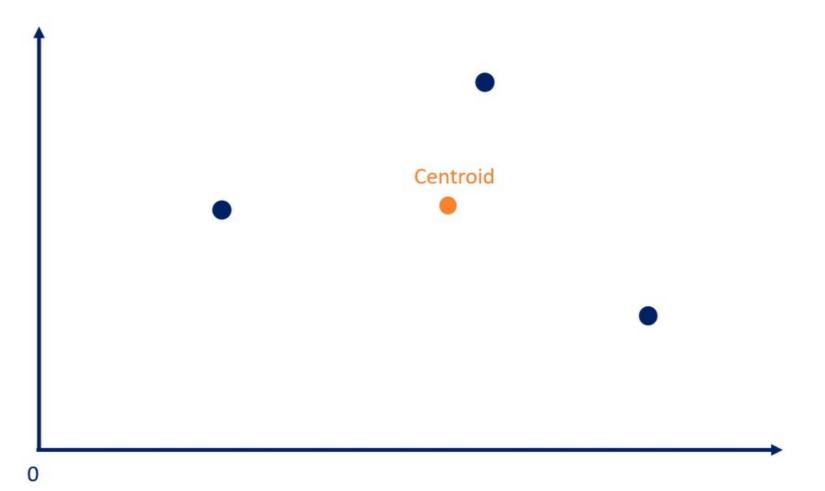
• The goal of clustering is to maximize the similarity of observations within a cluster and maximize the dissimilarity between clusters

Cluster Analysis – agenda

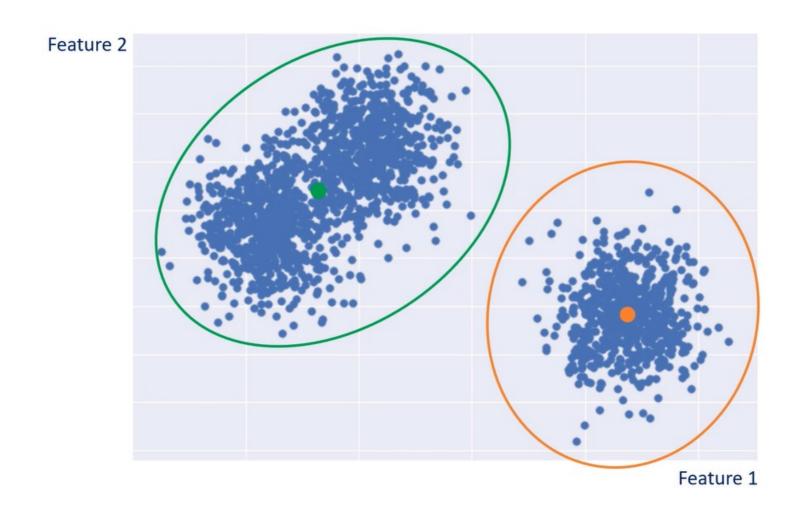
- Perform a clustering problem
- How to find the optimal number of clusters
- How to identify appropriate features
- How to interpret results

What is a centroid?

• A centroid is the mean position of a group of points (aka center of mass)



Clusters



Clusters

