



CLUSTERING OF FRENCH CITIES



CLUSTERING OF FRENCH CITIES IS VALUABLE FOR GOVERNMENT

- Regional deputies cost a lot of money and their number often sparks debates
- In 2016, a reform divided by 2 the number of regions in France
- Redefining France split and merging regions was not obvious
- Was this done effectively ?

DATA

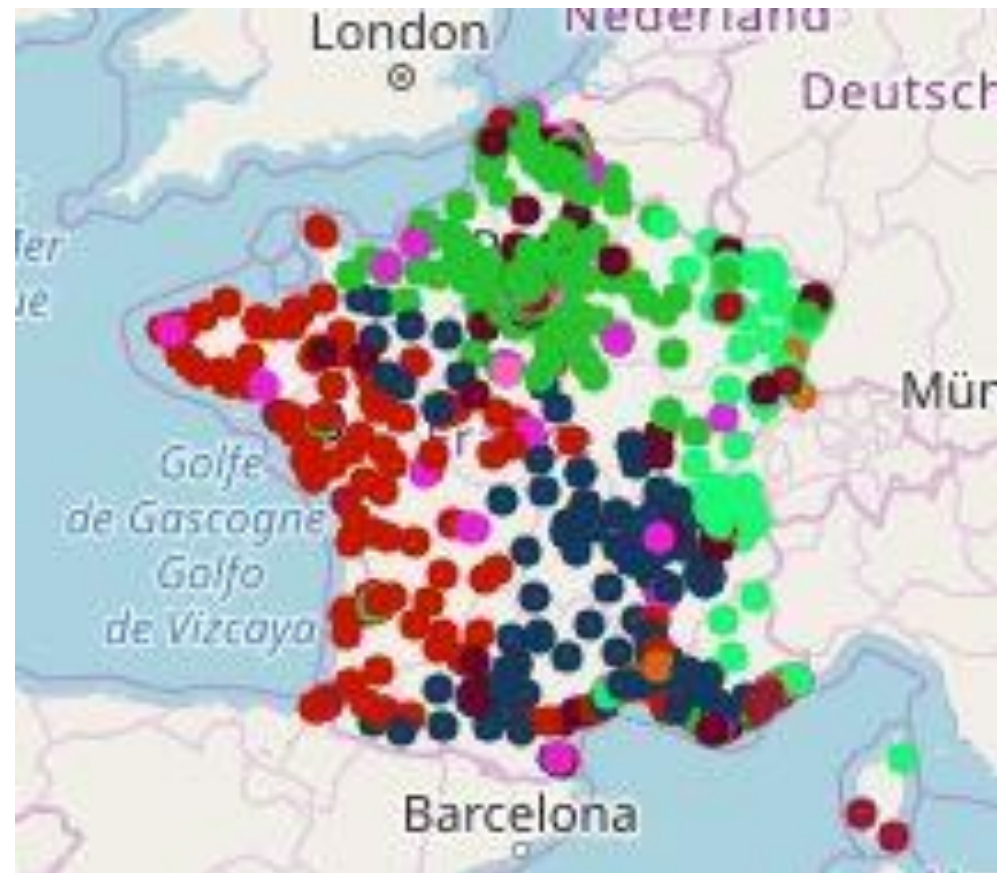
- Cities (Coordinates, Altitudes, Population, Density, Area) obtained from <https://www.data.gouv.fr/>
- Weather (temperature, humidity, wind intensity and direction) data from Openweather API : <https://openweathermap.org/api>
- Venues (Restaurants, Parks, Train Stations, Airports, Beaches) from Foursquare API : <https://developer.foursquare.com/>



CLUSTERING

- Defined 13 clusters
- Randomly initialized the centroids
- Used 72 features

RESULTS



DISCUSSION AND CONCLUSION

- Not production level ready for now
- Replace (current) weather data by climate data (i.e. historical weather data)
- Better filtering of cities required
- Fine tune feature selection and feature weighing