

Clustering segmentation for a daily routine

The family faced the question about moving to London. Having visited the city several times it was decided to choose the southern part of the capital. In this research I will try to find several options for possible neighborhoods to move to.

- The starting point of a comfortable stay will be the current place of living in Saint-Petersburg.
- The analysis will be made on the basis of open sources such as foursquare, wikipedia, and uk government.
- Clustering will help us to determine which borough is the most similar for a current place of living.
- To visualize result data we will see clusters on the map.
- To compare boroughs we will use the charts to see comparisons.



Clustering Segmentation

Clustering segmentation will help us to segment up parts of London into several groups.

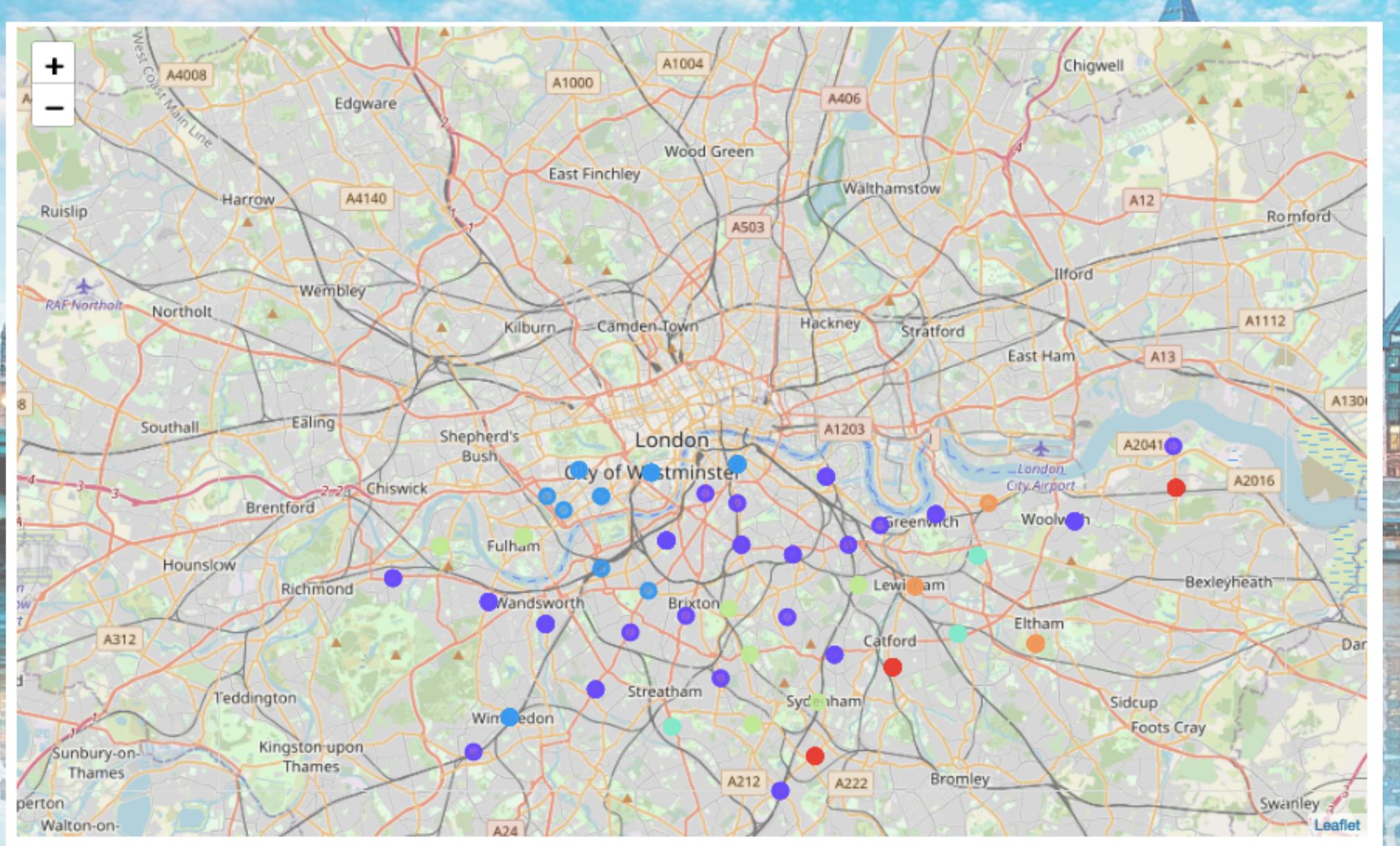
Then we will be able to find the current borough and view the cluster in more detail.

To evaluate the correctness of the data after running the algorithms, we can view the result on the map and detailed data for each cluster in a table view.

For clustering we will use k-means algorithm.

For showing result we will use the Folium Library.

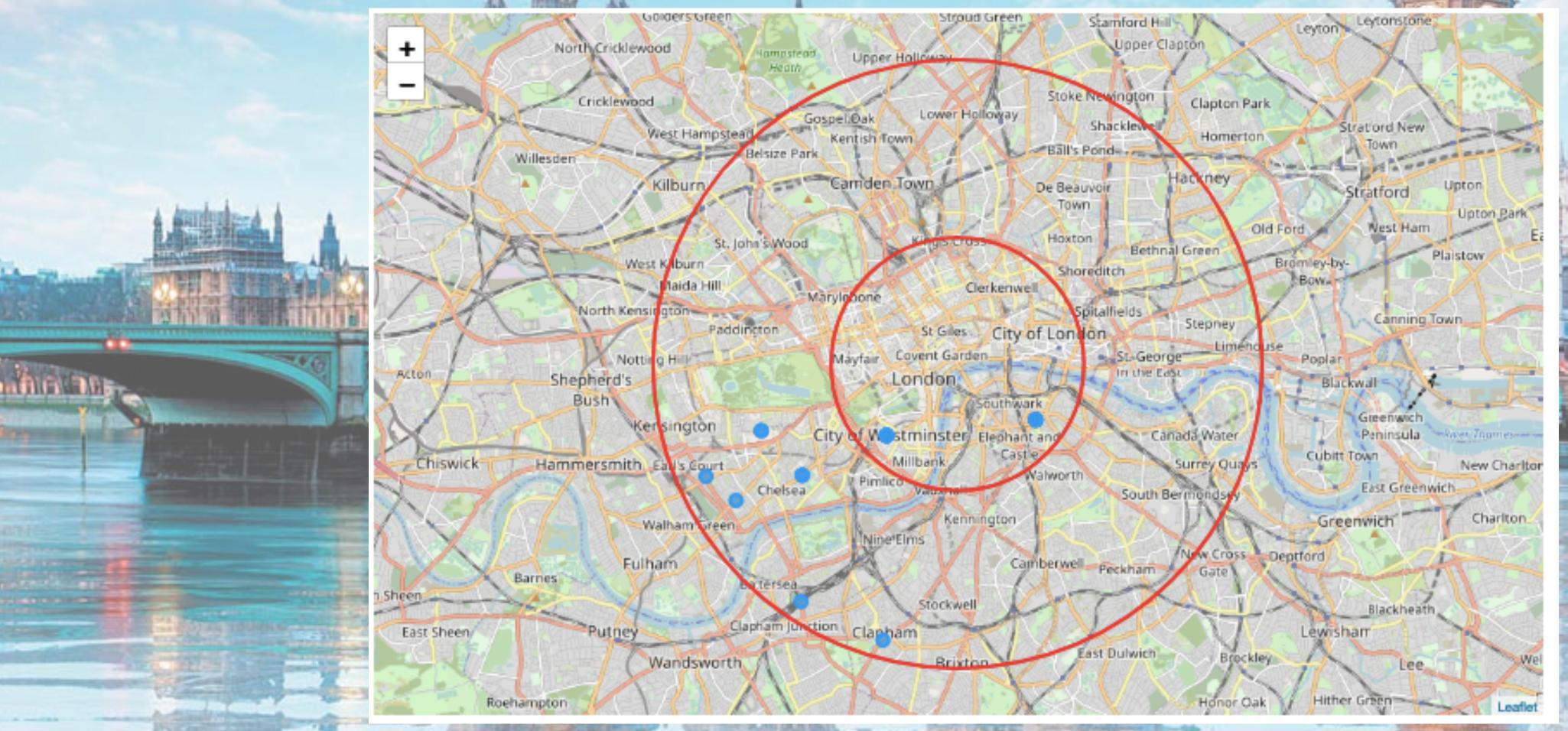
Clustering result





Playing with data

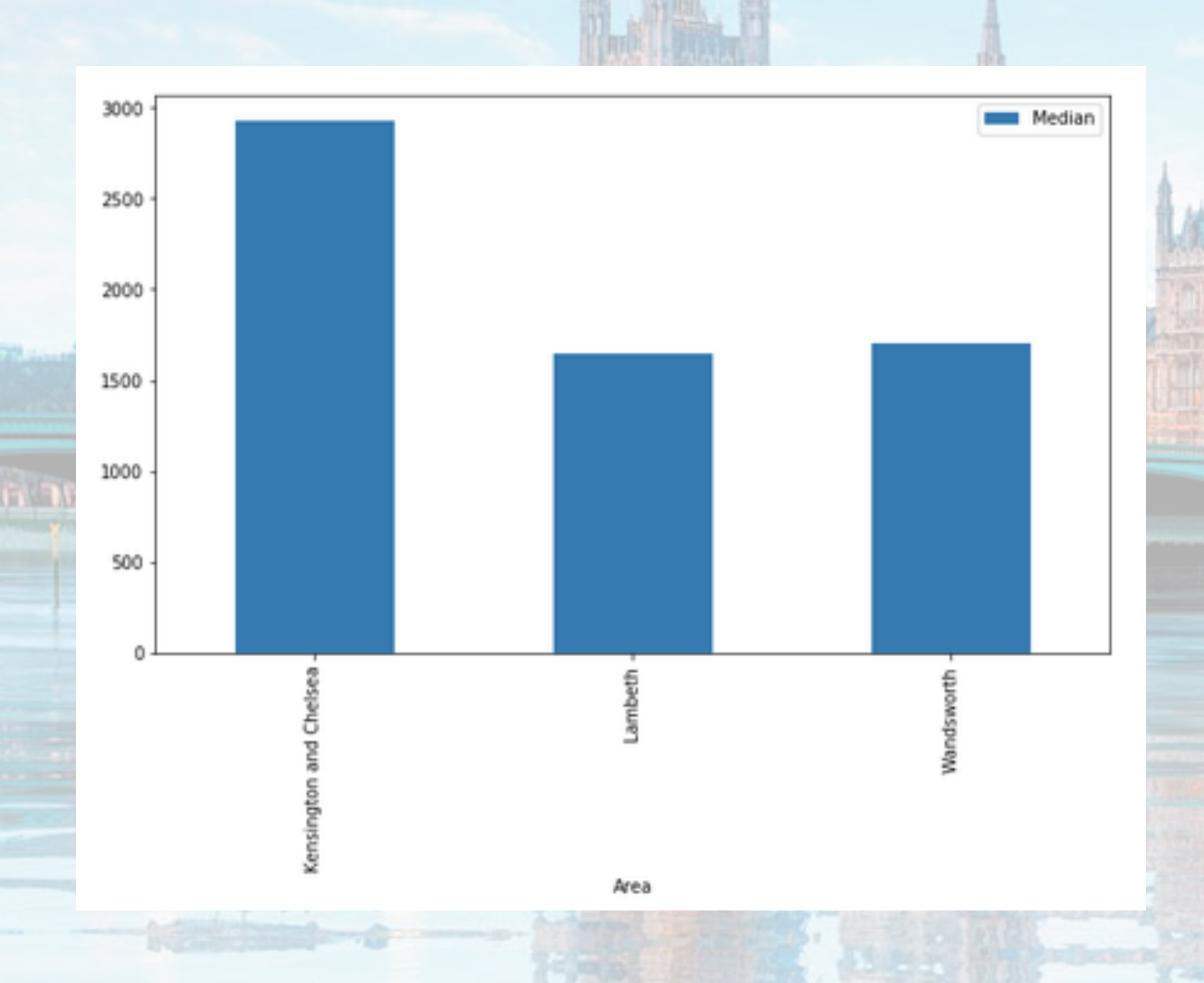
To see how many neighborhoods are included in chosen area, we can add two circles with different radius - 2.5km and 6km. This distances are maximum and minimum distances from the city centre.

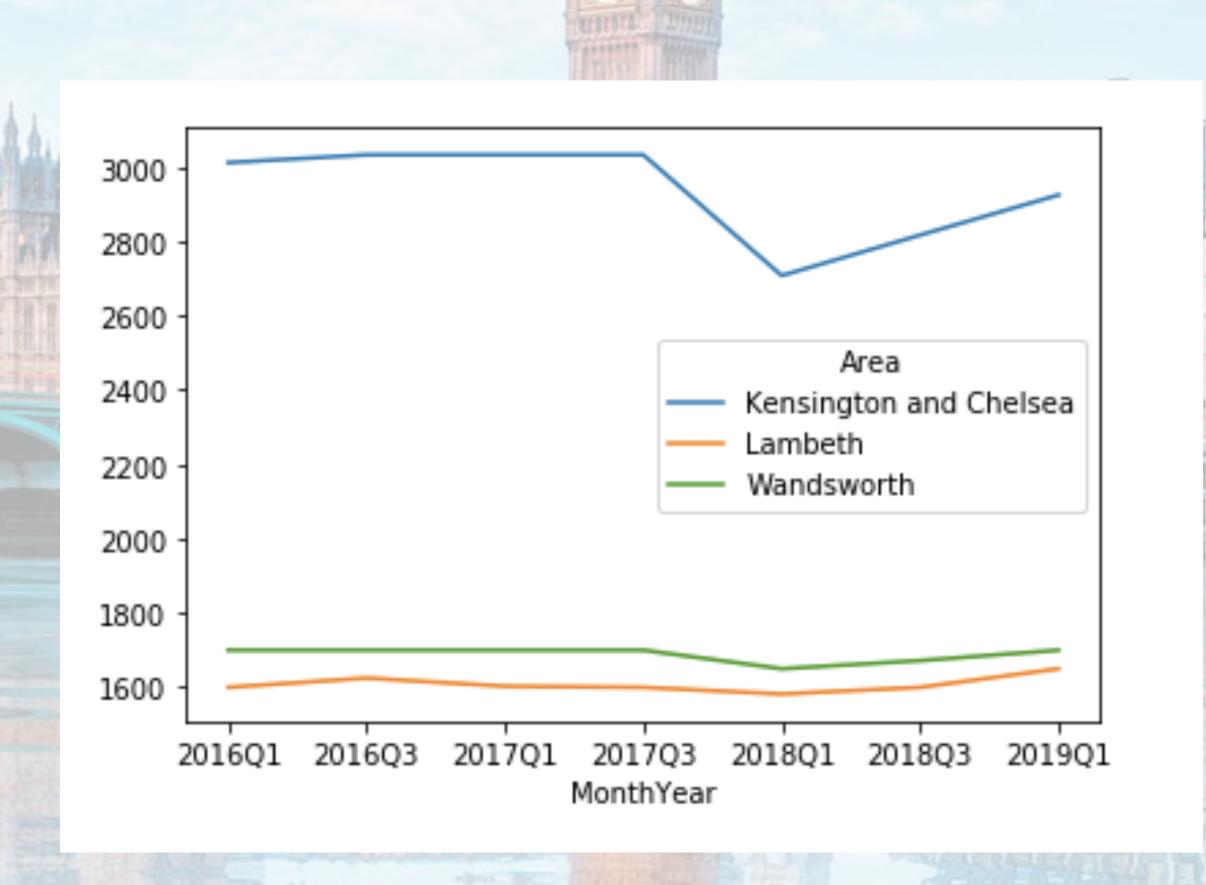




Borough comparison

Once we have a list of boroughs, we can compare them by price characteristics and crime situation.





Wandsworth Total Feesington and Cheisea Total LookUp_BoroughName

Crime situation

On those charts we can see number of incidents and number of crimes by

Crime Types for each borough.

