

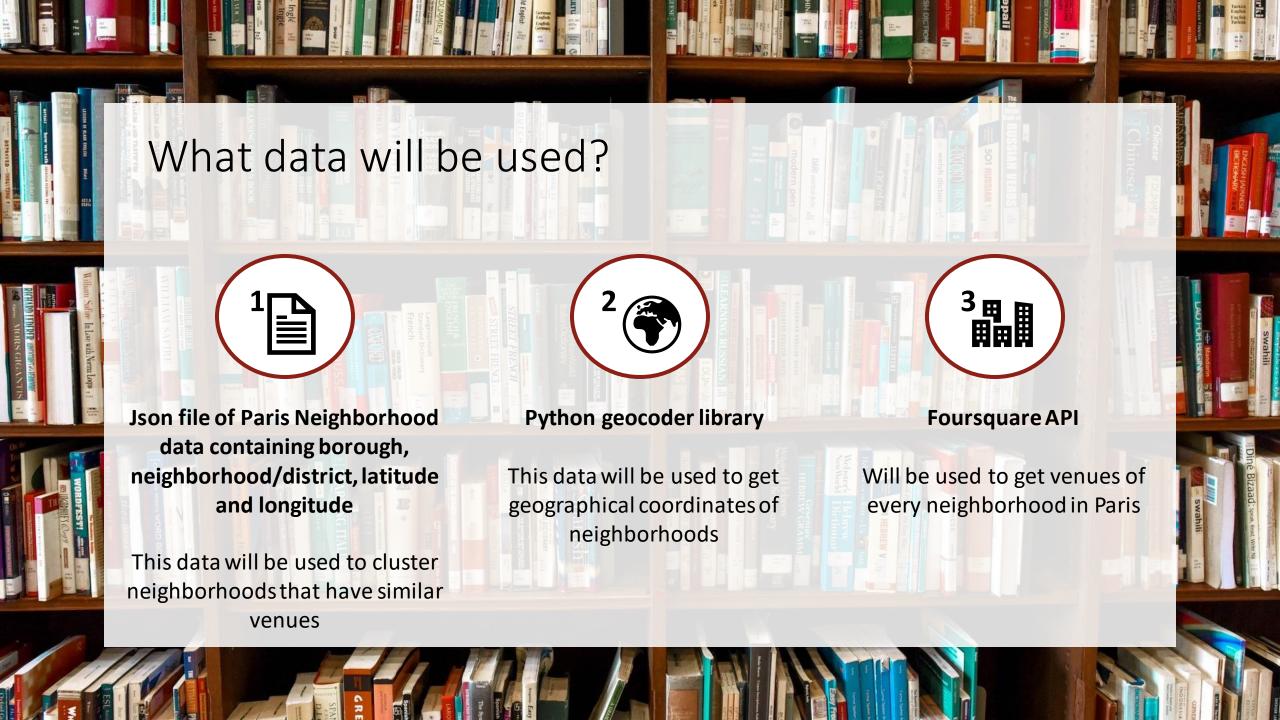
### Where to open a French Restaurant?

The purpose of this project is to analyze venues in the central areas of Paris to find the best location of where to open a French Restaurant.

Criteria for a good neighborhood to open a French Restaurant in:

- There is a market for French Restaurants
- The number of inhabitants per French Restaurant is high
- Other French Restaurants nearby have relatively low ratings



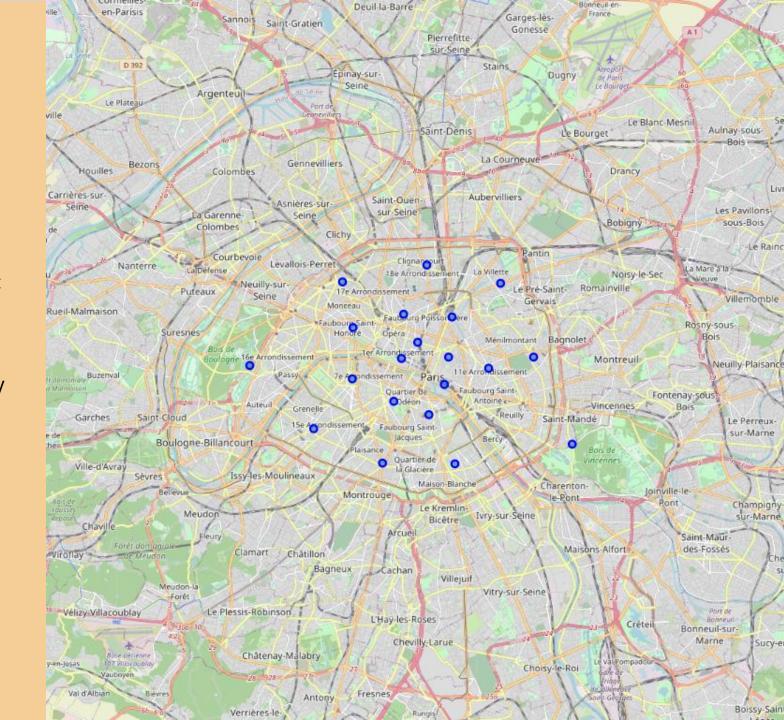


# Neighborhoods in Paris

The map shows the neighborhoods in Paris which venues will be investigated

Paris consists of 20 "Arrondissement" that will act as our neighborhoods

The 100 most common venues of each neighborhoods will be examined. By using dummy variables and taking the mean of the aggregated value for each Category, a ranking of the most common venues will be created.



### en-Parisis Garges-lès-Saint-Gratien Gonesse Pierrefittesur-Seine D 392 Stains. pinay-sur-Dugny Seine Argenteuil Le Platea Le Blanc-Mesnil Saint-Denis Aulnay-sou Le Bourget -Bois -La Courneuve Gennevilliers Bezons Drancy Colombes eres-sur-Aubervilliers Saint-Ouen-Asnières-sur sur-Seine Les Pavill Garenne Seine sous-Bo Bobiany Colombes antin Levallois-Perret Nanterre Noisy-le-Sec Romainville Le Pré-Saint-Puteaux Gervais Malmaison Rosny-sous-Suresnes Ménilmontant 16e Arrondissement Montreuil Neuilly-Pl Fontenay-sous -Vincennes Reuilly Garches Saint-Cloud Saint-Mandé Se Amondissement sur-M lacques Boulogne-Billancourt Bois de Quartier de Ville-d'Avray Issy-les-Moulineaux Sèvres Maison-Blanche Charenton loinville-le-Montrouge Meudor Ivry-sur-Seine Chavi Maisons-Alfort des-Fosses Clamart Cachan Villejuif Meudon-la Vitry-sur-Seine Forêt e Plessis-Robinson Port de elizy-Villacoublay L'Hay-les-Roses Bonneuil-sur-Marne Chevilly-Larue Châtenay-Malabry Choisy-le-Roi

### Clusters in Paris

The 20 neighborhoods was clustered into five clusters, based on the ten most common venues for each cluster

The machine-learning method k-means clustering was used. K-means clustering allocates every data point to the nearest cluster while keeping the cluster centroids as small as possible.

The blue marker (cluster 2) is neighborhood 13E and it differs from the other clusters as French Restaurants is not the most common venue here and due to the dissimilarity of the other ten most common venues.

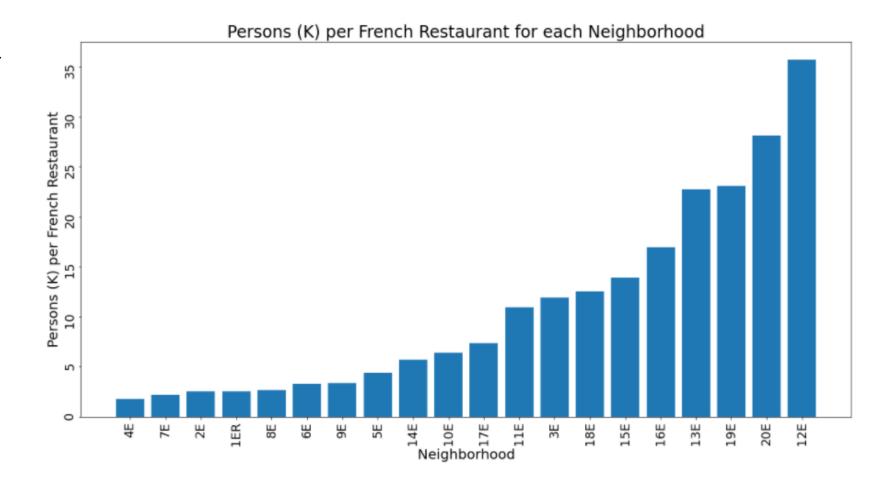
Ratings of other French Restaurants in cluster 2 was examined and the result was either rather low or no rating available

## Higher value indicates higher opportunity to open a French Restaurant with successful result

The graph shows that the number of people per French Restaurant for neighborhood 13E, 19E, 20E and 12E is the highest.

This could mean that there is place on the market for more French Restaurants in this area.

This is only an indicator and more analysis must be in order to draw a more precise conclusion



### Conclusion

Based on the analysis and data made in this project, neighborhood 13 E is the best neighborhood to open a French Restaurant

However, further analysis is recommended to get a more precise result. This could involve looking into average income per person for each neighborhood and investigate tourist data and patterns as Paris has a very high numbers of tourists visiting each year.

