



APPLIED DATA SCIENCE CAPSTONE

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The problem

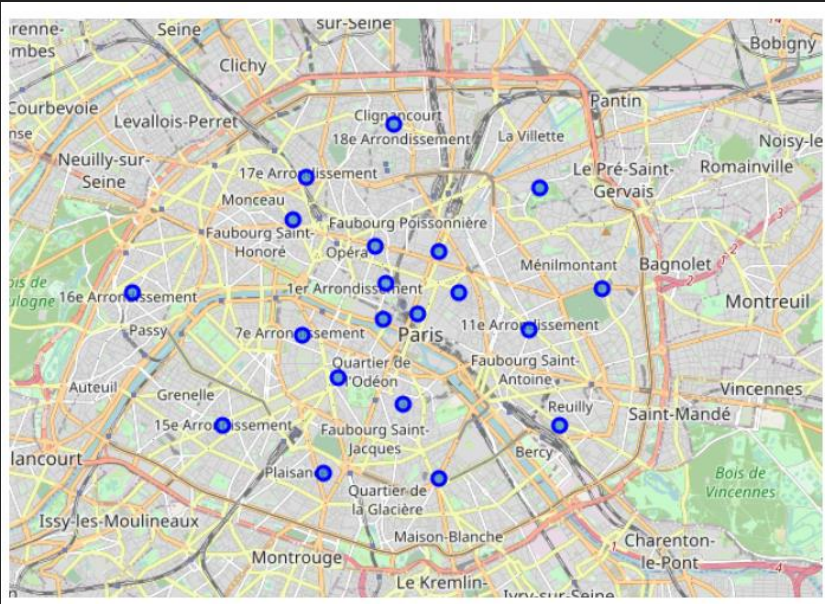
- If your friends are coming to Paris, which places would you recommend them to visit ?
What are the most common venues in each of the 20 boroughs of Paris ?



The data

- To solve this problem, we will need different kinds of data :
 - Dataset on the following wikipedia page :
https://fr.wikipedia.org/wiki/Liste_des_quartiers_administratifs_de_Paris
 - Foursquare API : to explore venues in the city of Paris





	Borough	Neighbourhood	Latitude	Longitude
0	10e arrondissementdit « de l'Entrepôt »	Saint-Vincent-de-Paul, Porte-Saint-Denis, Port...	48.8709	2.3561
1	11e arrondissementdit « de Popincourt »	Folie-Méricourt, Saint-Ambroise, Roquette, Sai...	48.8574	2.3795
2	12e arrondissementdit « de Reuilly »	Bel-Air, Picpus, Bercy, Quinze-Vingts	48.8412	2.3876
3	13e arrondissementdit « des Gobelins »	Salpêtrière, Gare, Maison-Blanche, Croulebarbe	48.8322	2.3561
4	14e arrondissementdit « de l'Observatoire »	Montparnasse, Parc-de-Montsouris, Petit-Montro...	48.8331	2.3264

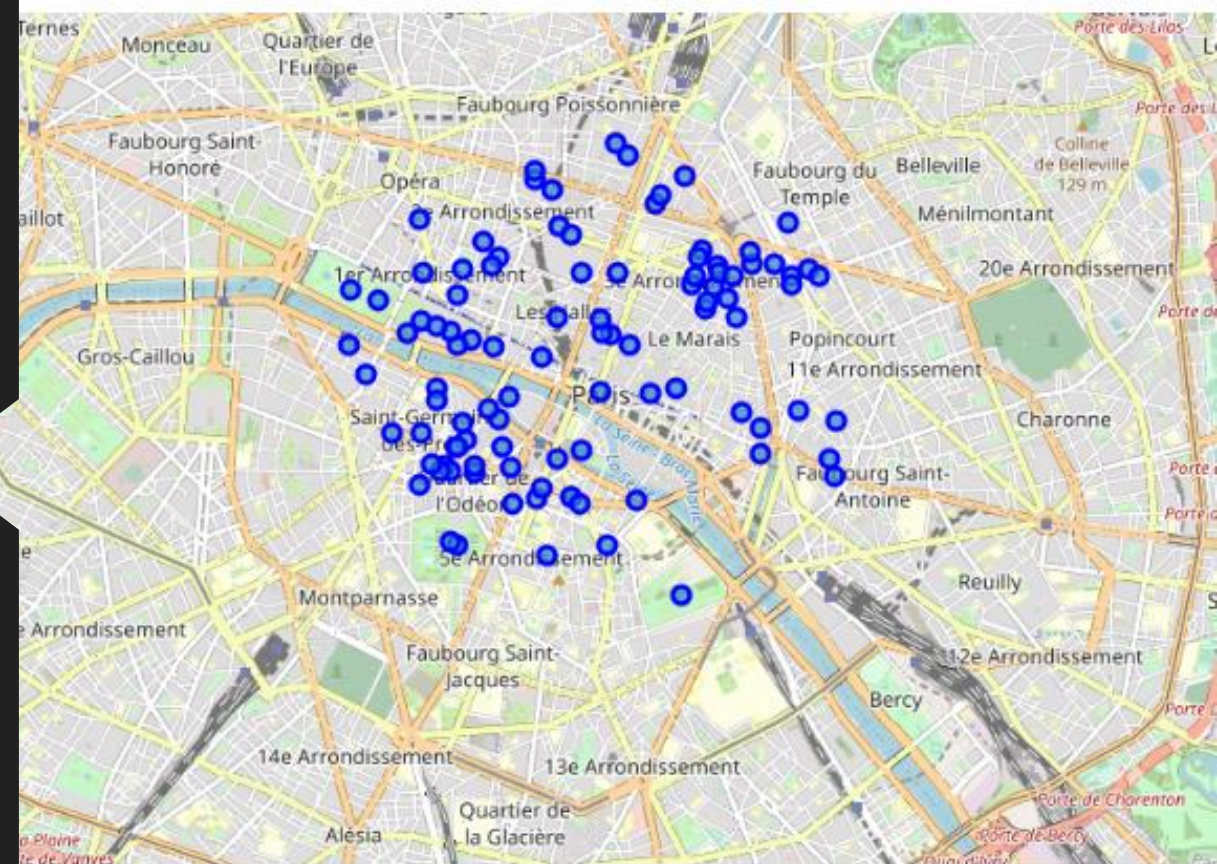
The methodology

1ST STEP : collect and analyze data dealing with Paris and its boroughs and neighbourhoods



The methodology

- **2ND STEP** : Use the Foursquare API to explore Paris and find the busiest places in the city that are likely to please our tourists



	name	categories	address	lat	lng	distance	po
0	Place de l'Hôtel de Ville – Esplanade de la Li...	Plaza	Place de l'Hôtel de Ville	48.856925	2.351412	25	
1	Cathédrale Notre-Dame de Paris	Church	6 parvis Notre-Dame	48.853124	2.349561	421	
2	Boutique du Centre Pompidou	Souvenir Shop	Place Georges Pompidou	48.860706	2.352362	451	

The methodology



- **3RD STEP** : Create a list of the top 10 most popular and must-see establishments for each of the 20 neighbourhoods

	Borough	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	4th Most Common Venue	5th Most Common Venue	6th Most Common Venue	7th Most Common Venue	8th Most Common Venue	9th Most Common Venue	10th Most Common Venue
0	10e arrondissement « de l'Entrepôt »	Pizza Place	Coffee Shop	Cocktail Bar	Bakery	Hotel	Cheese Shop	Music Venue	Café	Sandwich Place	Burger Joint
1	11e arrondissement « de Popincourt »	Cocktail Bar	French Restaurant	Pastry Shop	Performing Arts Venue	Seafood Restaurant	Sandwich Place	Mediterranean Restaurant	Korean Restaurant	Bakery	Asian Restaurant
2	12e arrondissement « de Reuilly »	Chinese Restaurant	Bistro	Japanese Restaurant	Tapas Restaurant	Soup Place	French Restaurant	Bakery	Furniture / Home Store	Garden	Middle Eastern Restaurant
3	13e arrondissement « des Gobelins »	Hotel	Vietnamese Restaurant	Indian Restaurant	Asian Restaurant	Dessert Shop	Movie Theater	Museum	Pub	Bar	Sushi Restaurant

Conclusion



- Following our study, if friends were to visit Paris, we would advise them to go mainly to the center of the capital, where the most popular tourist spots are located
- A map of Paris showing these different places is also proposed to them in order to better situate them in relation to each other
- We have highlighted the tourist points in each district of Paris so that everyone can find the must-see points around their home