

DS Capstone Project

Barcelona vs Paris
Let the battle begin.

Barcelona vs Paris - How (dis)similar are they?

Barcelona vs Paris

Problem:

- Barcelona and Paris are two of my favourite cities.
- But which city should I on the next visit given my personal preferences?

Barcelona vs Paris

Using data to solve the problem:

- Foursquare to retrieve a list of venues and their categories.
- Wikipedia for geographical data on the cities
- Public sites with data on the cities
- Apply Data Science techniques to solve the problem.

Barcelona vs Paris

Number of venues in Barcelona

2936

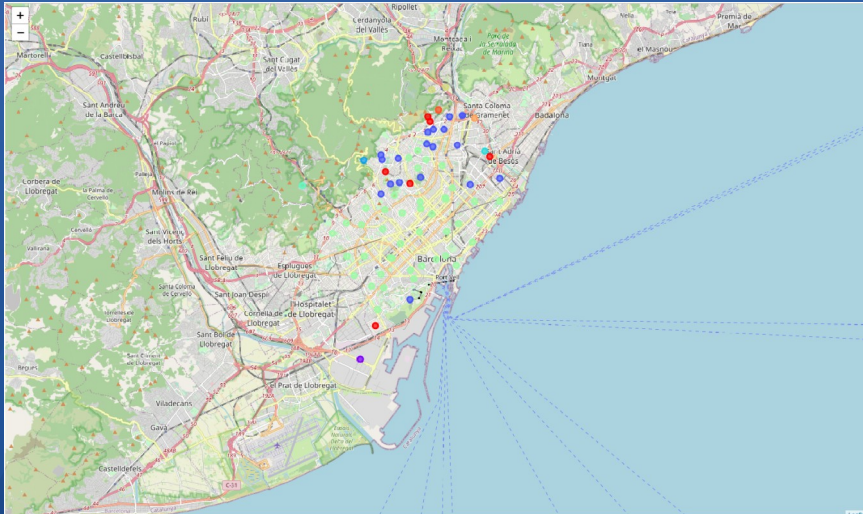
Number of venues in Paris

5248

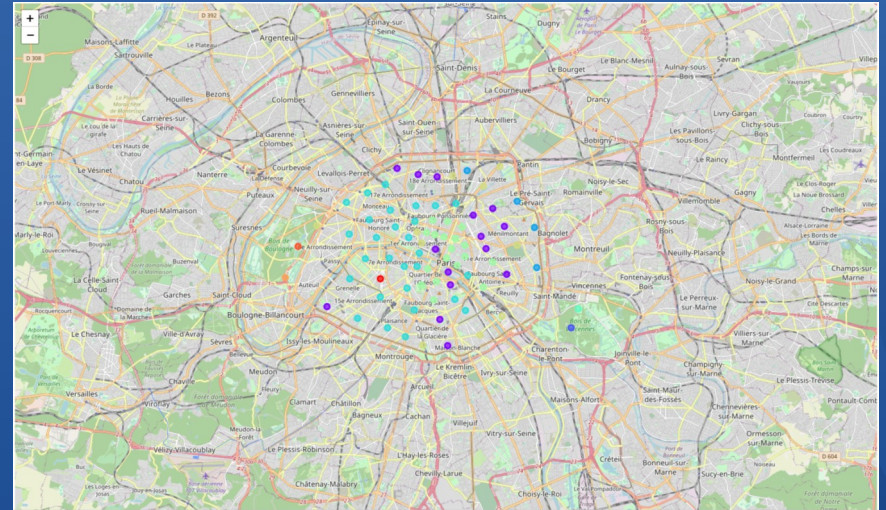
- Paris has 2000 more venues than Barcelona

Barcelona vs Paris

Barcelona Neighbourhoods divided into 10 clusters with K-Means

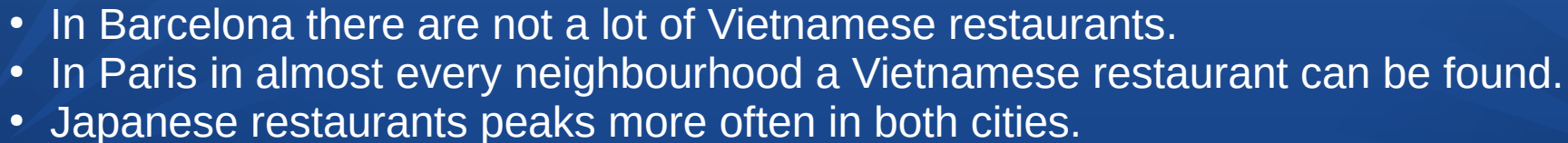


Paris Neighbourhoods divided into 10 clusters with K-Means



- Barcelona has one big cluster which is centered in the city.
- Paris has two big clusters which together also can be found in the center of the city.

Chinese, Japanese and Vietnamese restaurants in Barcelona



Number of Venues per Paris Arrondissement & Neighbourhood

Legend:

- Chinese Restaurant
- Japanese Restaurant
- Vietnamese Restaurant

Location	Chinese Restaurant	Japanese Restaurant	Vietnamese Restaurant
(1) Belleville	15.0	21.0	3.0
(1) Place Vendôme	10.0	29.0	1.0
(1) Saint-Germain l'Auxerrois	9.0	23.0	1.0
(2) Boulogne	15.0	64.0	1.0
(2) Caulaincourt	10.0	21.0	1.0
(2) Marais	10.0	17.0	1.0
(2) Vieux Saint-Pierre	10.0	11.0	1.0
(3) Enfants-Rouges	10.0	23.0	1.0
(3) Arts et Métiers	10.0	20.0	1.0
(4) Ardenais	14.0	16.0	1.0
(4) Notre-Dame	12.0	16.0	1.0
(4) Saint-Etienne	8.0	13.0	1.0
(5) Jardin-des-Plantes	1.0	25.0	1.0
(5) Saint-Victor	7.0	20.0	1.0
(5) Val-de-Grec	1.0	13.0	1.0
(6) Monnaie	1.0	18.0	1.0
(6) Notre-Dame-des-Près	1.0	16.0	1.0
(6) Odéon	1.0	11.0	1.0
(7) Ecole-Militaire	1.0	8.0	1.0
(7) Invalides	1.0	4.0	1.0
(7) Saint-Thomas-d'Aquin	1.0	12.0	1.0
(8) Champs-Élysées	1.0	12.0	1.0
(8) Raboulog du Boule	1.0	12.0	1.0
(8) Madeleine	1.0	7.0	1.0
(9) Châteaufort	1.0	14.0	1.0
(9) Pailloux-Morin	1.0	33.0	1.0
(9) Bechevaux	1.0	23.0	1.0
(10) Pont-Saint-Martin	1.0	16.0	1.0
(10) Notre-Dame-de-Lorette	1.0	22.0	1.0
(11) Foie-Mercutio	1.0	13.0	1.0
(11) Roquette	1.0	7.0	1.0
(11) Saint-Marguerite	1.0	8.0	1.0
(12) Bercy	1.0	7.0	1.0
(12) Digne-Vingts	1.0	8.0	1.0
(12) Cité	1.0	7.0	1.0
(13) Gare	1.0	7.0	1.0
(13) Maison-Blanche	1.0	7.0	1.0
(14) Montparnasse	1.0	7.0	1.0
(14) Parc-de-Montsouris	1.0	8.0	1.0
(14) Puits-Poisson	1.0	10.0	1.0
(15) Grenelle	1.0	10.0	1.0
(15) Javel	1.0	7.0	1.0
(15) Saint-Lambert	1.0	11.0	1.0
(16) Chailly	1.0	15.0	1.0
(17) Pigouilles	1.0	13.0	1.0
(17) Plaine de Montcaumon	1.0	9.0	1.0
(17) Frennes	1.0	7.0	1.0
(18) Goutte-d'Or	1.0	4.0	1.0
(18) Grandes-Carrières	1.0	4.0	1.0
(18) Chapelle	1.0	4.0	1.0
(19) Combat	1.0	6.0	1.0
(19) Port-de-Rand	1.0	6.0	1.0
(20) Châteauneuf	1.0	4.0	1.0
(20) Belleville	1.0	6.0	1.0
(20) Saint-Jacques	1.0	3.0	1.0

Barcelona vs Paris

Conclusion.

- Both cities have their biggest clusters centered in the city.
- Chinese and Japanese restaurants can be found in almost every neighbourhood of Barcelona.
- Only in a few Barcelona neighbourhood a Vietnamese restaurant can be found.
- Chinese, Japanese and Vietnamese restaurants can be found in almost every neighbourhood of Paris.

Barcelona vs Paris

And the winner is: Paris



My next visit will be a visit to Paris, France!