



g and Clustering Neighborhoods in Paris

TOURISTICS PLACES

Description

In my Capstone project I want to study the different tourist places by neighborhood of Paris, the city of lights. Study the different small activities around each tourist place such as restaurants, libraries, etc. Also study the correlation between the population by neighborhood and the number of restaurants and their type.

Data source

To do this project, I retrieve the data from the opendata site <https://opendata.paris.fr/page/home/>, by doing web scraping with beautifulsoup, or downloading the data in a csv file or using the restful API.

Data analysing and cleaning

	Borough	Neighbourhood	Code	Latitude	Longitude
0	6	Monnaie	75106	48.854384	2.340035
1	6	Odéon	75106	48.847801	2.336339
2	8	Champs-Élysées	75108	48.867074	2.308652
3	13	Maison-Blanche	75113	48.823128	2.352433
4	13	Croulebarbe	75113	48.833734	2.347673

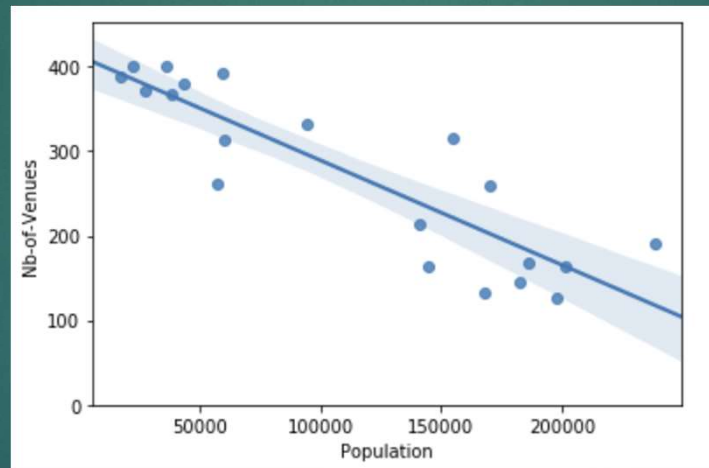
Paris's borough population

Borough	Superficie	Population	Density
1	183	17100	93
2	99	22390	227
3	117	35991	307
4	160	27769	173
5	254	60179	236
6	215	43224	201
7	409	57092	139
8	388	38749	99
9	218	59474	272
10	289	94474	326
11	367	155006	422
12	637	144925	227
13	715	182386	255
14	564	141102	250
15	848	238190	280
16	791	167613	211
17	567	170156	300
18	601	201374	335
19	679	186116	274
20	598	197311	329

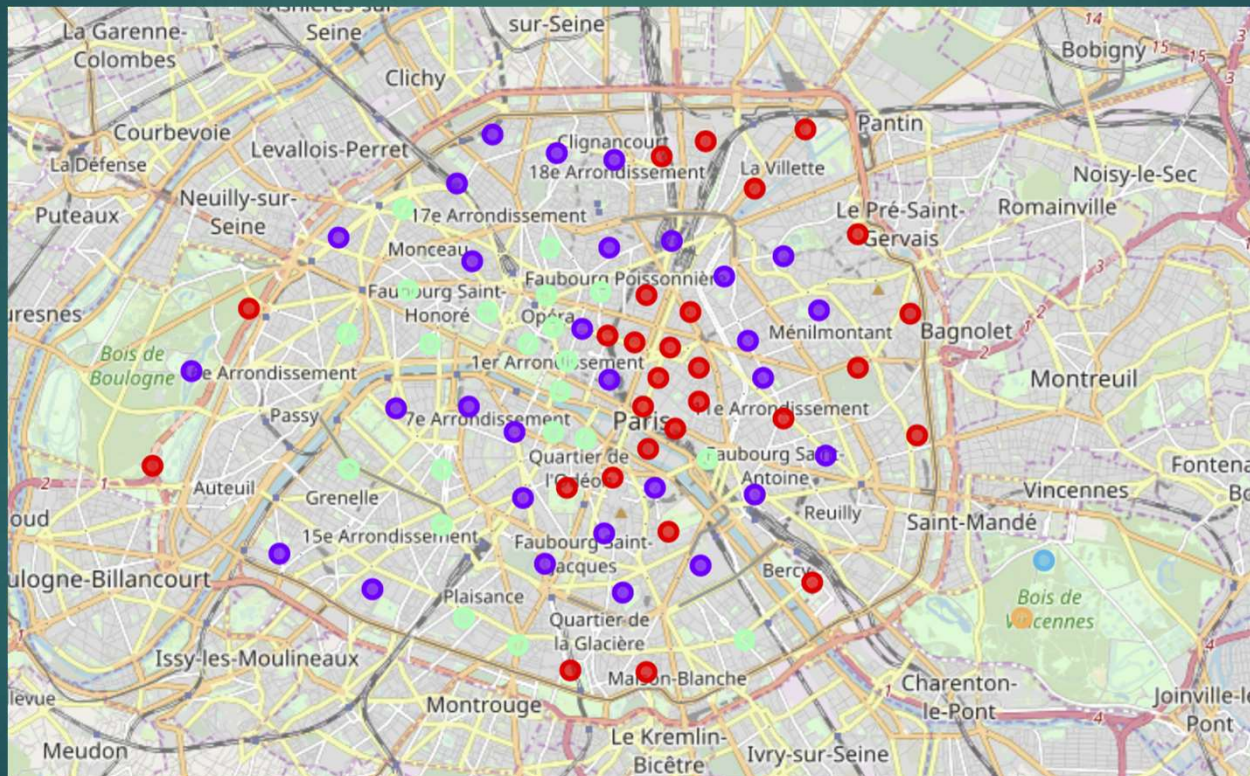
Correlation between venue's number and population by Borough

	Population	Nb-of-Venues
Population	1.000000	-0.879811
Nb-of-Venues	-0.879811	1.000000

Venues and population graphic illustration



Paris's venues by Neighborhood



Conclusion

- ▶ After my analyse I can conclude that the correlation between number of venues and the population of borough is a negative correlation. But I can explain why.
- ▶ The majority of Paris' venues is concentrate in the borough center.