



Capstone Project

Comparing Montreal and Paris

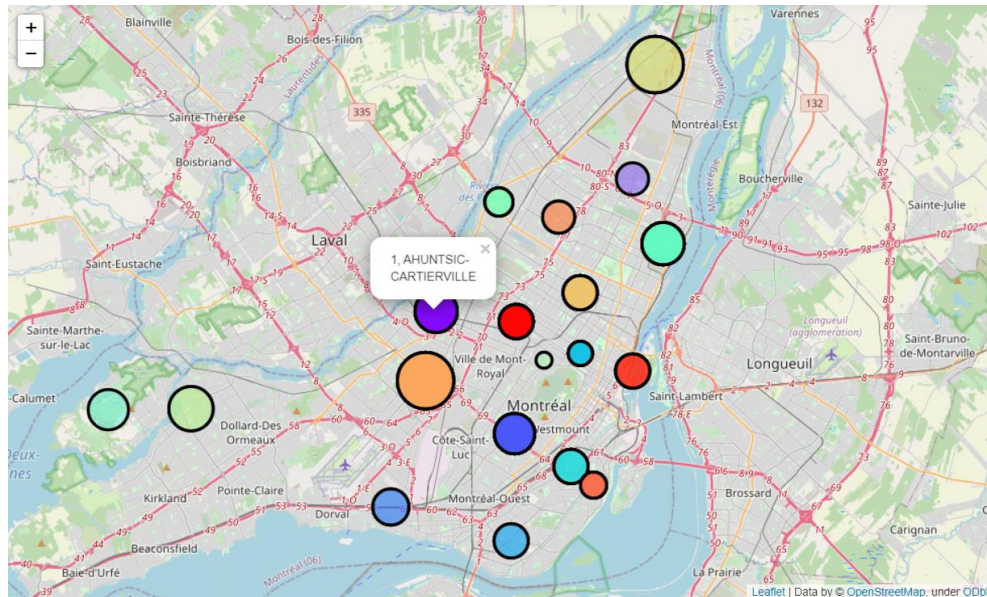
Introduction

- Paris and Montreal have both tremendous cultural background, and where Paris is the capital and main city of France, Montreal is the largest city of Quebec and its "cultural capital".
- Montreal is 3 times the size of Paris but its population density is 1/5 of Paris.
- What criterion should we use for the comparison ? We choose 2. Museum related and the second one is Bar related.
- The results can get an interest from touristic companies that would like to refine their data. There can be also an interest from sociological and history department from universities.

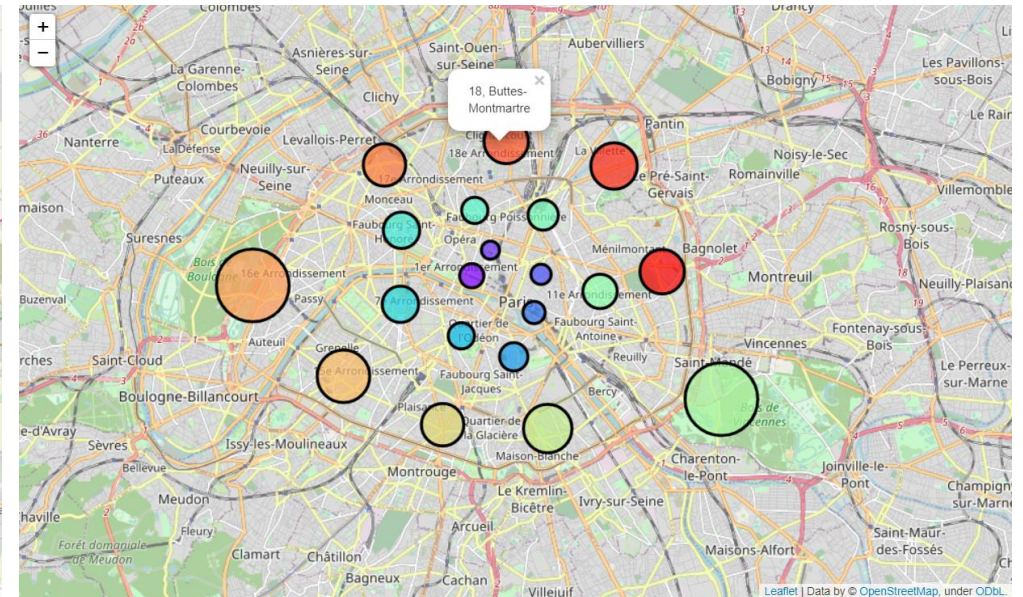
Data sources

- **open data Paris & portail données ouvertes Montreal**, which are websites that contain official datas of the boroughs and the neighborhood of Paris and Montreal.
- **wikipedia** to obtain complementary informations about the neighborhoods such as area or density population.
- **FourSquare** to get the venues for the each neighborhood of the two cities.
- **Geopy** was very usefull for getting the coordinate of the neighborhoods and the boroughs.

Boroughs mapping

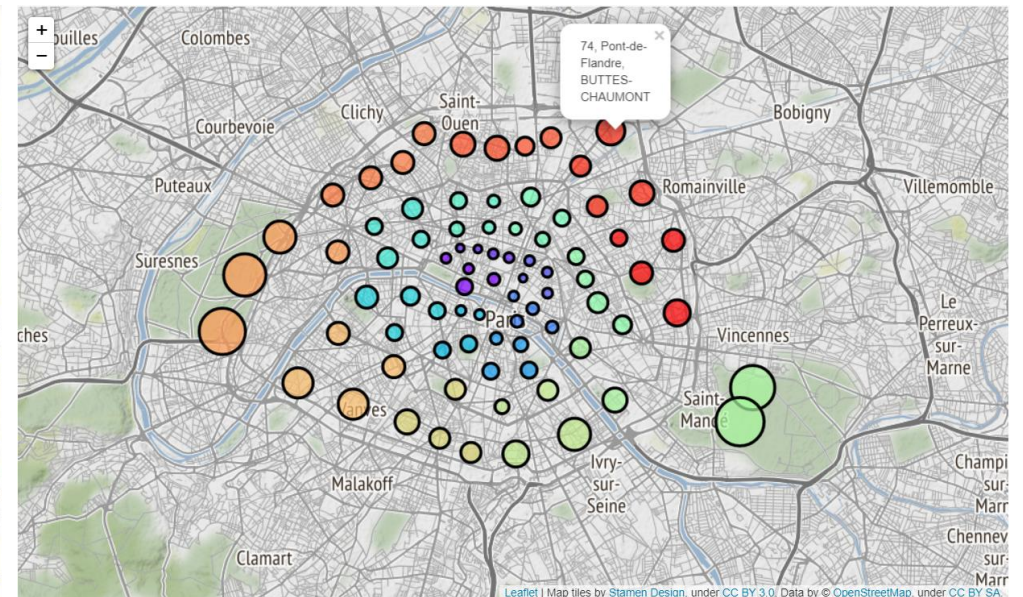
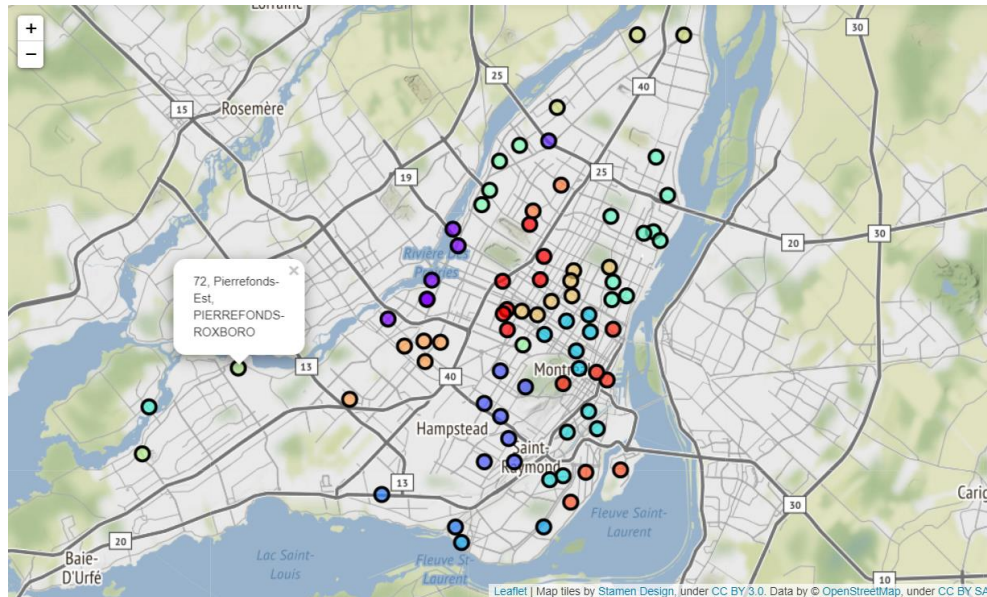


Montreal:
365 km²
19 Boroughs and 77 Neighborhoods



Paris:
105 km²
20 Boroughs and 80 Neighborhoods

Neighborhoods mapping



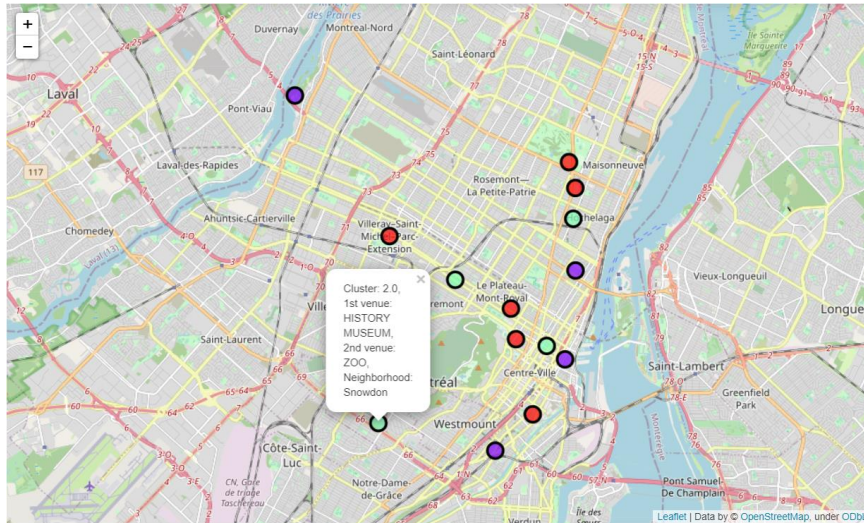
Boroughs in Montreal don't have the same number of neighborhood and are more randomly dispatch.

There is always 4 neighborhoods per borough in Paris.

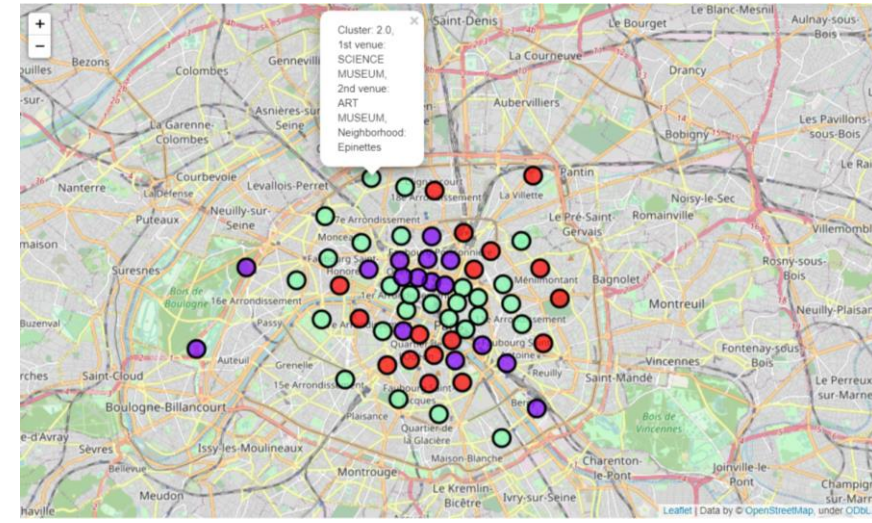
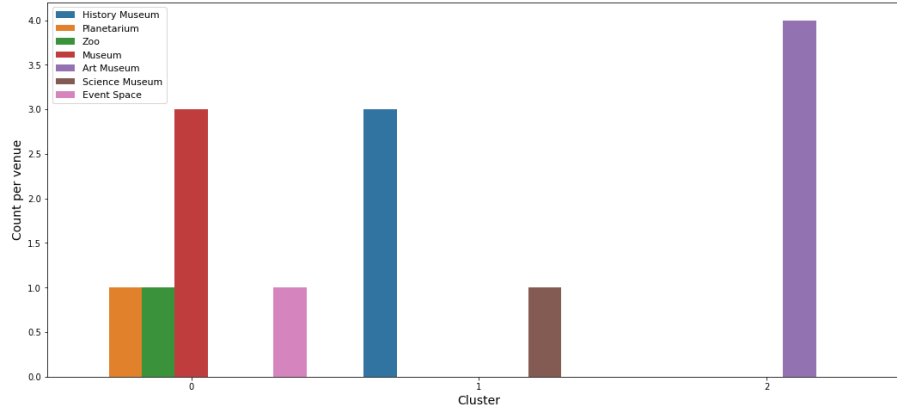
Exploration of the neighborhoods

- **Foursquare API** was used to explore the neighborhoods.
- **Radius** = 750 meters
- **Venues** limited to 50.
- The **query** were "**Museum**" and "**Bars**".

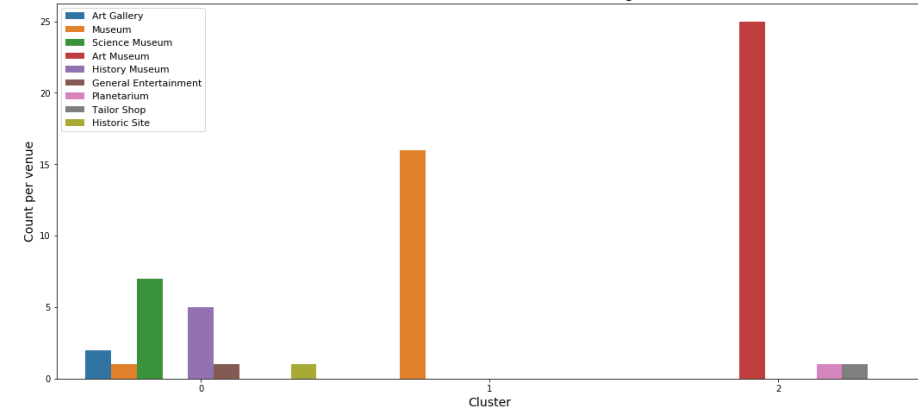
Looking for Museum



The first common Venue when for each cluster: Looking for a Museum

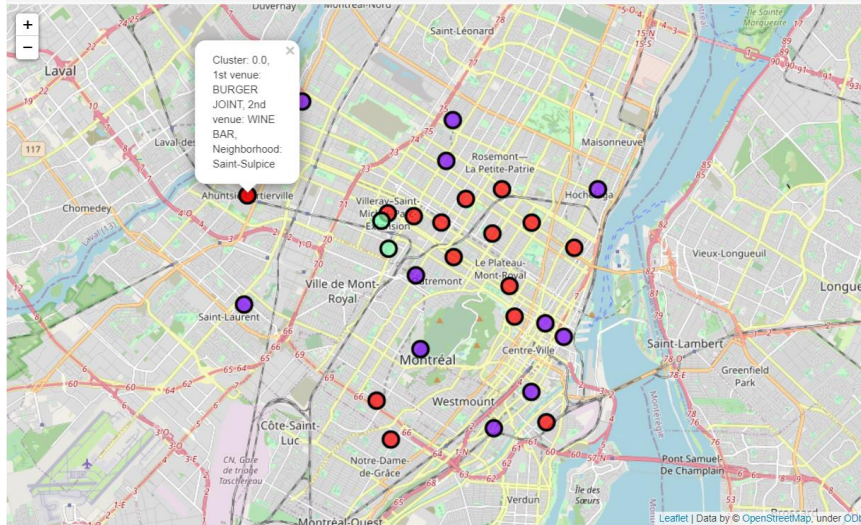


The first common Venue when for each cluster: Looking for a Museum

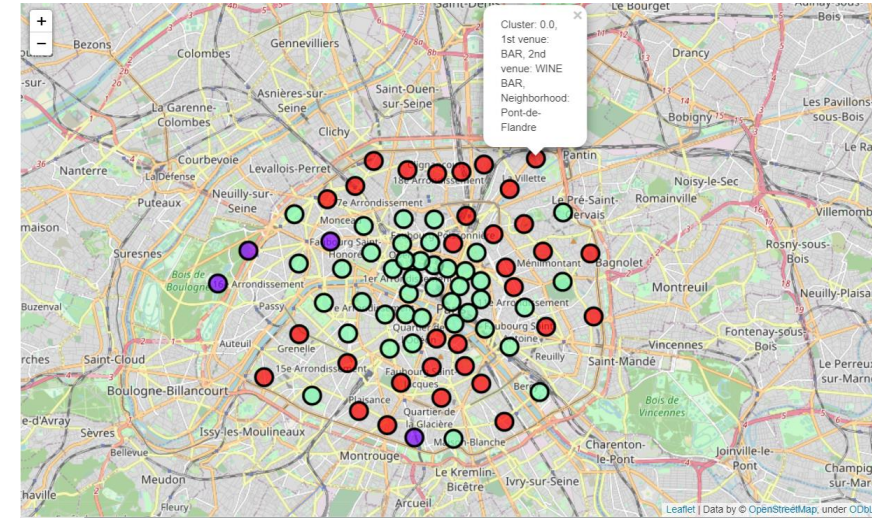
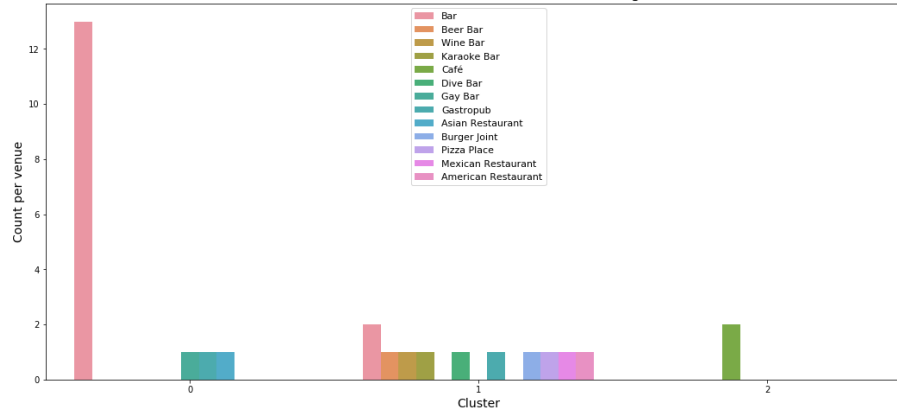


- In both cities, the museum are mainly located in the downtown or in the old center.
- In Paris, the neighborhoods in the center belong to 2 clusters only.

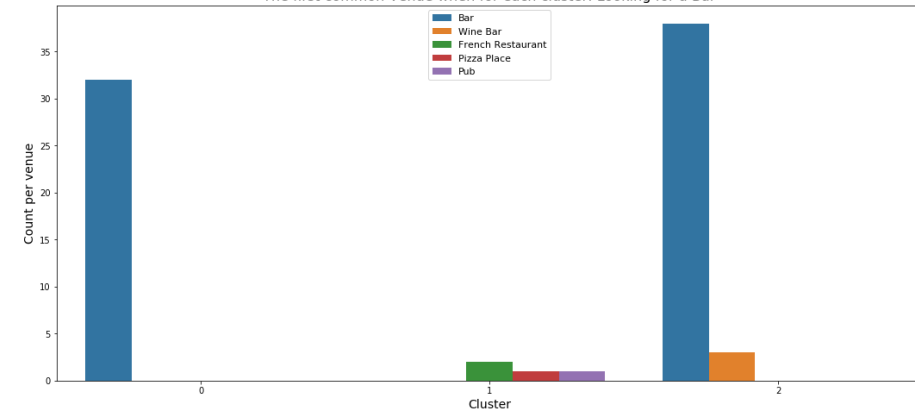
Looking for Bars



The first common Venue when for each cluster: Looking for a Bar



The first common Venue when for each cluster: Looking for a Bar



Discussion

- As an older city than Montreal, Paris also has a longer history than Montreal which can explain the difference in number of Museum across the cities.
- For both cities, most of the museum are located in the downtown or in the old center.
- For Paris, the bars are in every neighborhood of the city. Although this part of the "french culture" is well represented, the range of the kind of bars is pretty narrow.
- For Montreal, majority of the bars are located around the "PLateau-Mont-Royal", the kind of bars is pretty diverse.

Conclusion

- Although both Montreal and Paris are well known for being "cultural places", they differ a lot.
- Paris possesses a lot more Museums and most of the tourism industry gravitates around them, all along with wine bars or French restaurants mainly located in the center (i.e. the most touristic places).
- Montreal seems to possess a very different kind of tourism industry, less related to the Museum than Paris and much more connected to the cultural diversity.
- As a final line, only two criteria were used to compare the cities of Montreal and Paris which is very few. Other criteria could be added to this study in order to have a better comparison such as outdoor infrastructures, parks.