

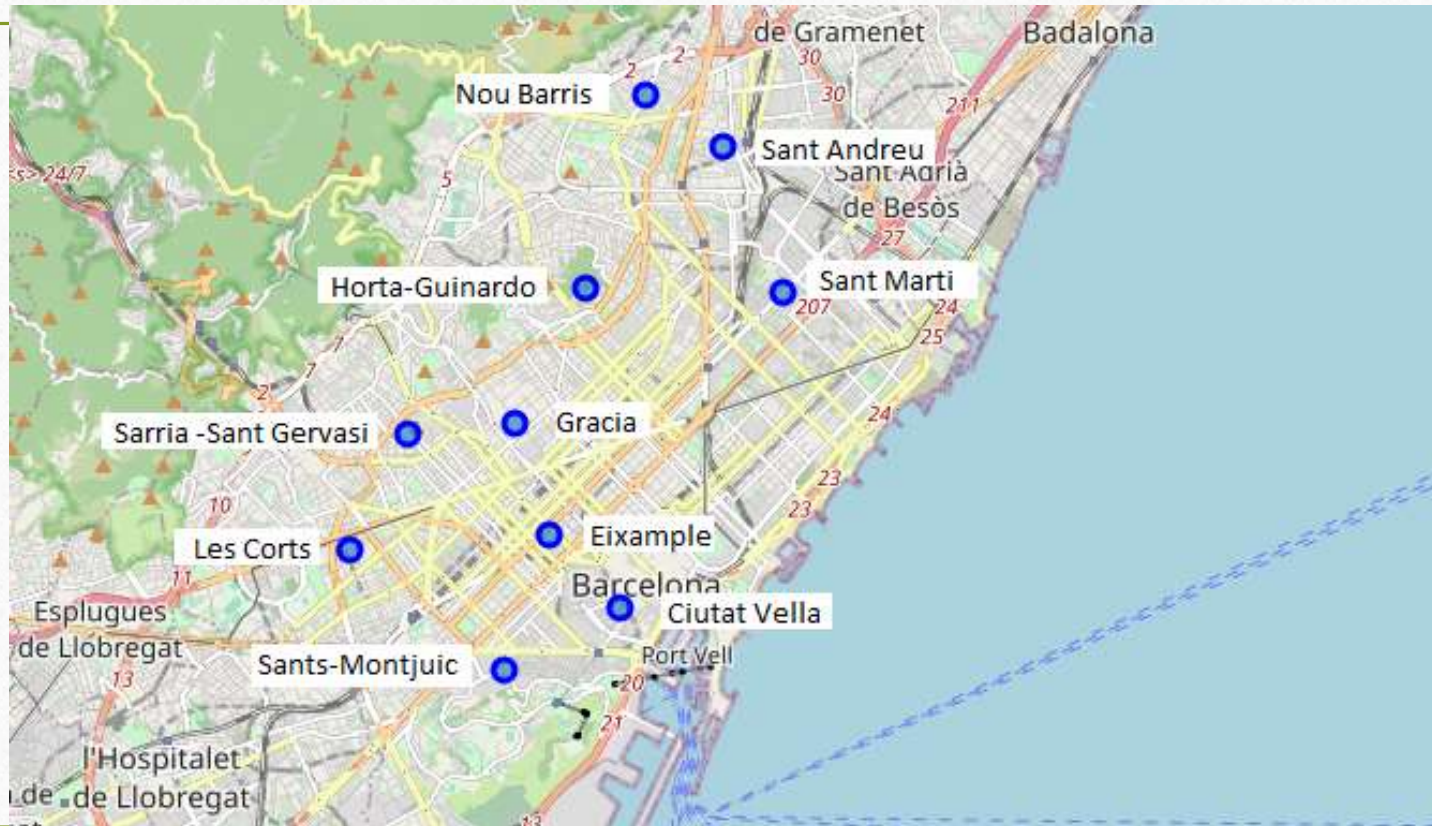
Barcelona's Districts

Analyzing Barcelona's barrios' character by using Foursquare venues' data

Data acquisition and cleaning

- Barcelona's districts list is acquired from Wikipedia:
https://en.wikipedia.org/wiki/Districts_of_Barcelona
- Their location is acquired by using geocoder:
<https://pypi.org/project/geocoder/>
- Top 100 venues for each district are retrieved from Foursquare database by using explore function

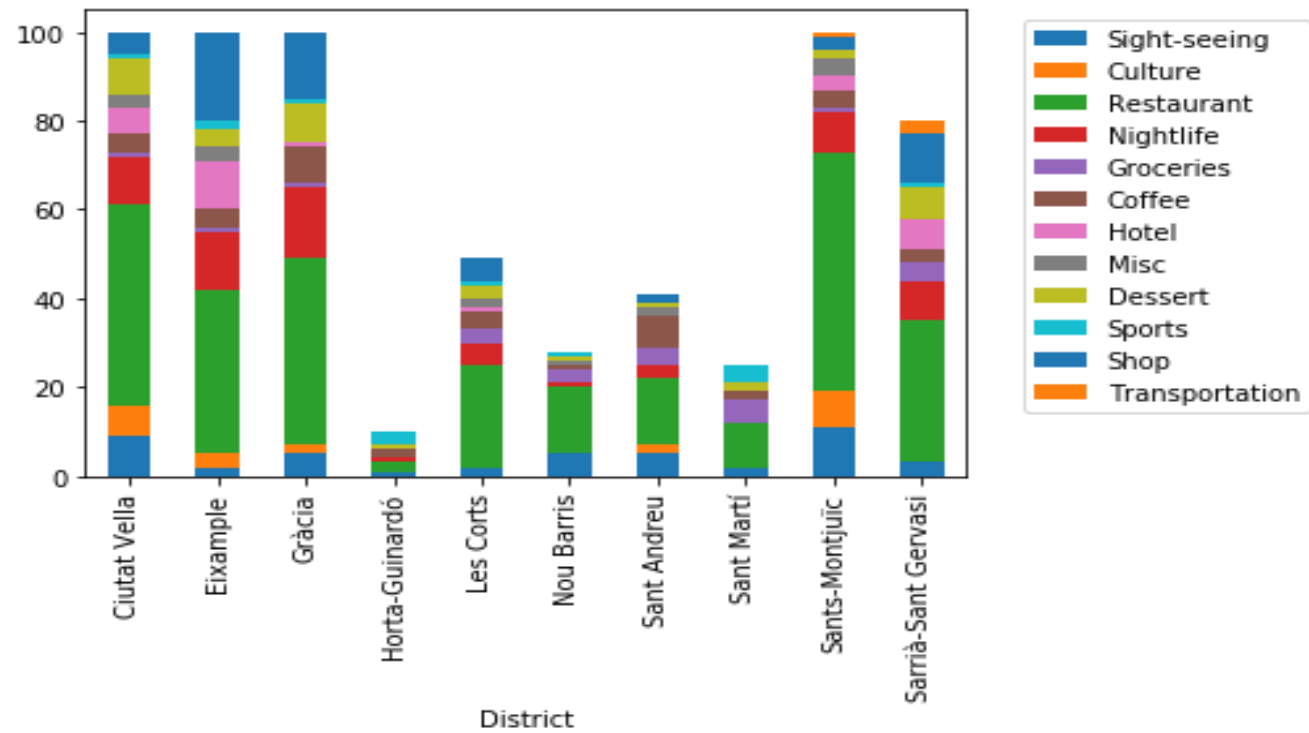
Barcelona's districts on the map



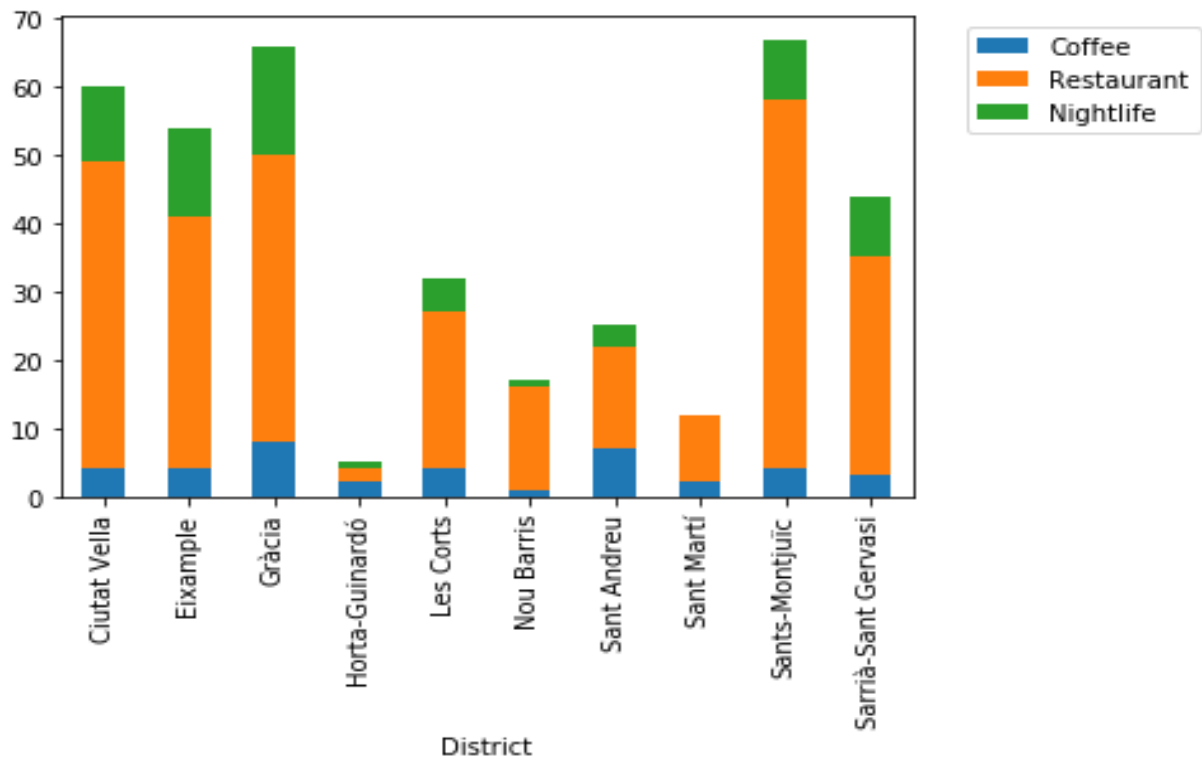
Venues Categories

- Sight-seeing, → Cultural
- Culture, → Cultural
- Restaurant, → Entertainment
- Nightlife, → Entertainment
- Groceries,
- Coffee, → Entertainment
- Hotel,
- Misc,
- Dessert,
- Sports,
- Shop,
- Transportation

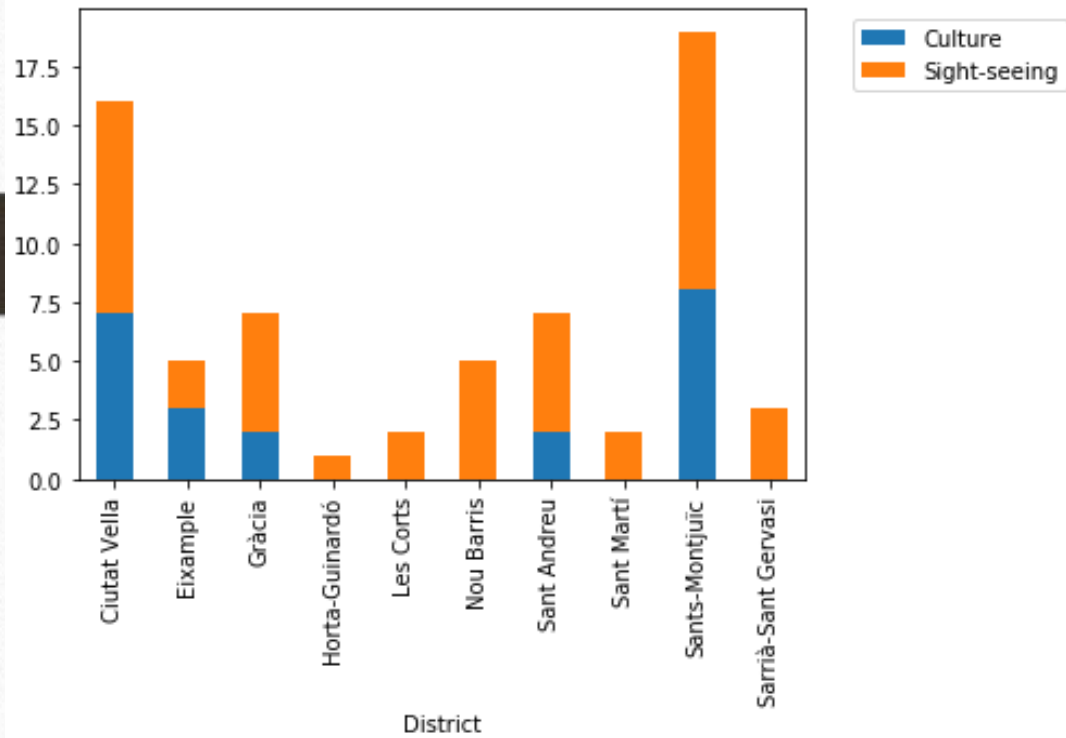
Each district's character



Entertainment options per District



Cultural options per District



Conclusion and Future Directions:

- As it is shown on the entertainment plot Ciutat Vella, Sant Marti and Sants-Montjuic offer more nightlife options. Sant Marti offers the most restaurant and coffee options but Ciutat Vella offers more nightlife options. Sants-Montjuic and Ciutat Vella offers the most options for culture and sight-seeing.
- Because Ciutat Vella offers many options both for culture and fun it should be more suitable for the average tourist.
- This is a first approach on the problem, there is space for more detailed analysis.
- Each person is different so that could be something to include. For example a family with small children would prefer a quieter district and may not be interested in its nightlife. A young traveler may be more interested in a district's nightlife. An older couple may prefer a district that offers many cultural options.