

Clustering of the world most visited cities

How to recommend the next best travel destination to clients

Problem

- How to recommend destinations to clients
- Finding similarities between destinations

What data we use

- Top 100 most visited cities in the world
- Foursquare location data for venues in each of the top 10 categories
- GPS coordinates
- City population and arrivals



Foursquare main venue categories

 Arts & Entertainment

 College & University

 Event

 Food

 Nightlife Spot

 Outdoors & Recreation

 Professional & Other Places

 Residence

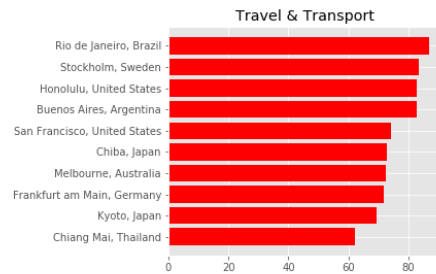
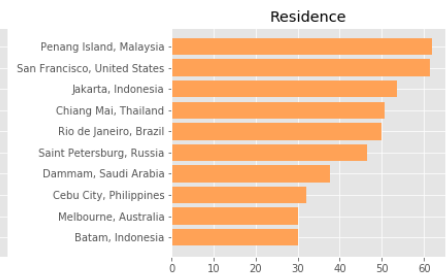
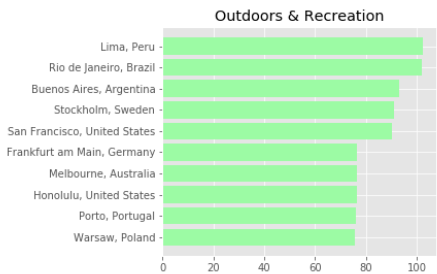
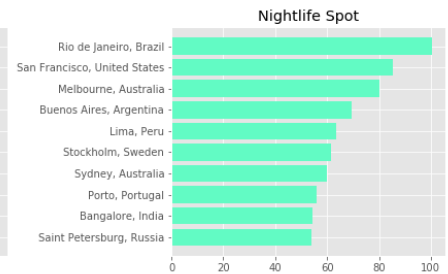
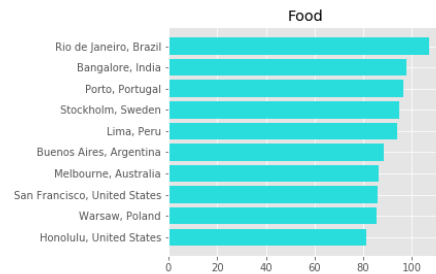
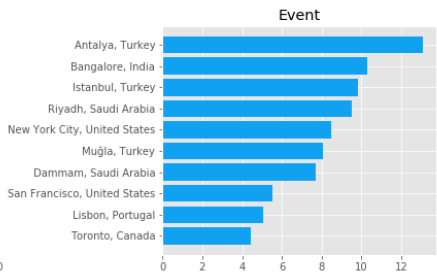
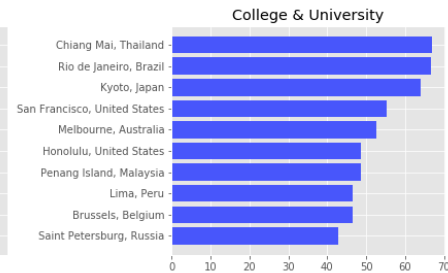
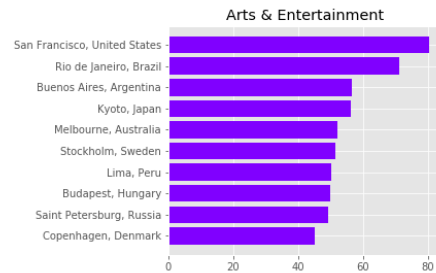
 Shop & Service

 Travel & Transport

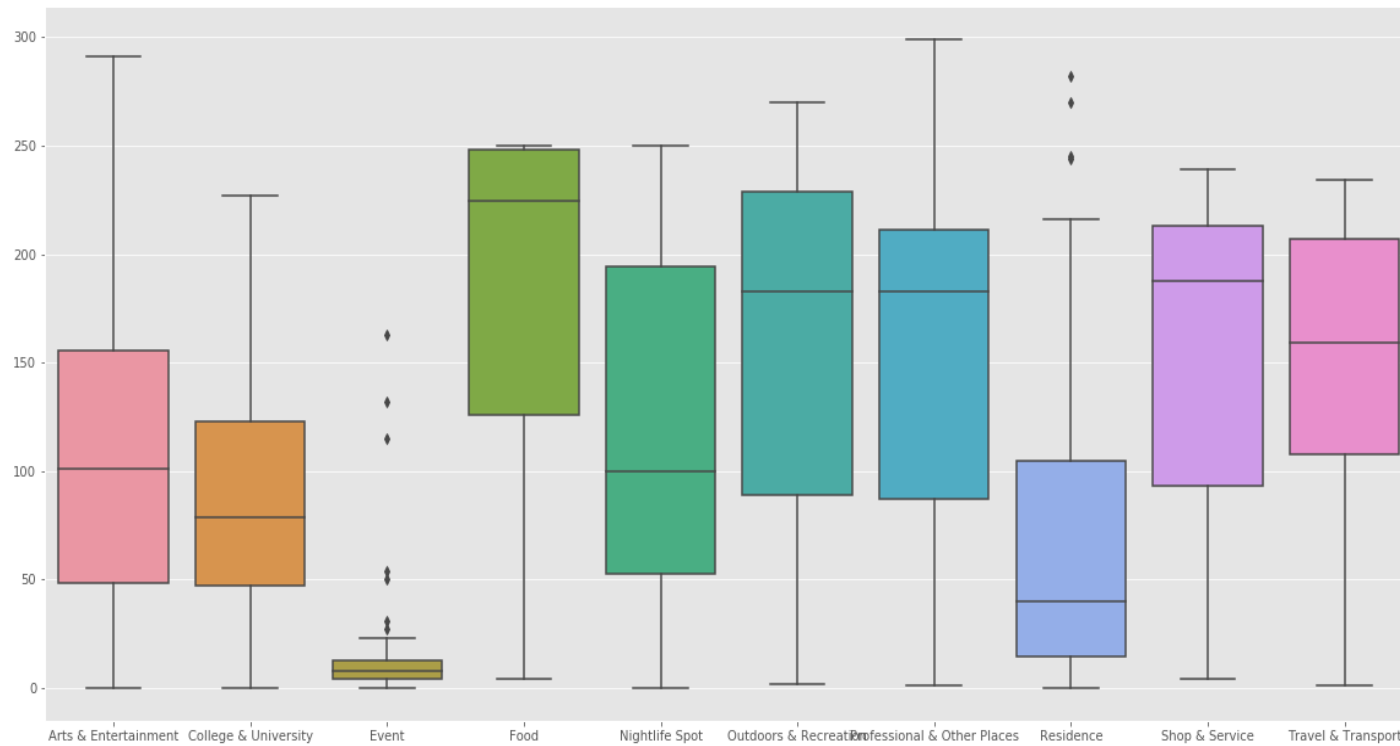
Top 100 most visited cities (by arrivals)



Top 10 cities (by venue category)



Distribution of venue numbers (by category)



City cluster classification



Results

- There is no correlation between number of arrivals and local venues
- Total venue numbers have a high influence on cluster classification

Conclusion

- 5 clusters created to give a 'sense' of each city
- More features required to build a recommendation system