HUMAN CENTERED CITIES

A Look at Vienna And Singapore

The Cities

- Both cities are on the list of the World's Healthiest Cities
- Their structures ate to be compared to ascertain what elements of cities enhance human health
- City planners could benefit from information about what constitutes a healthy city

Vienna

▶ Located in Austria, Central Europe
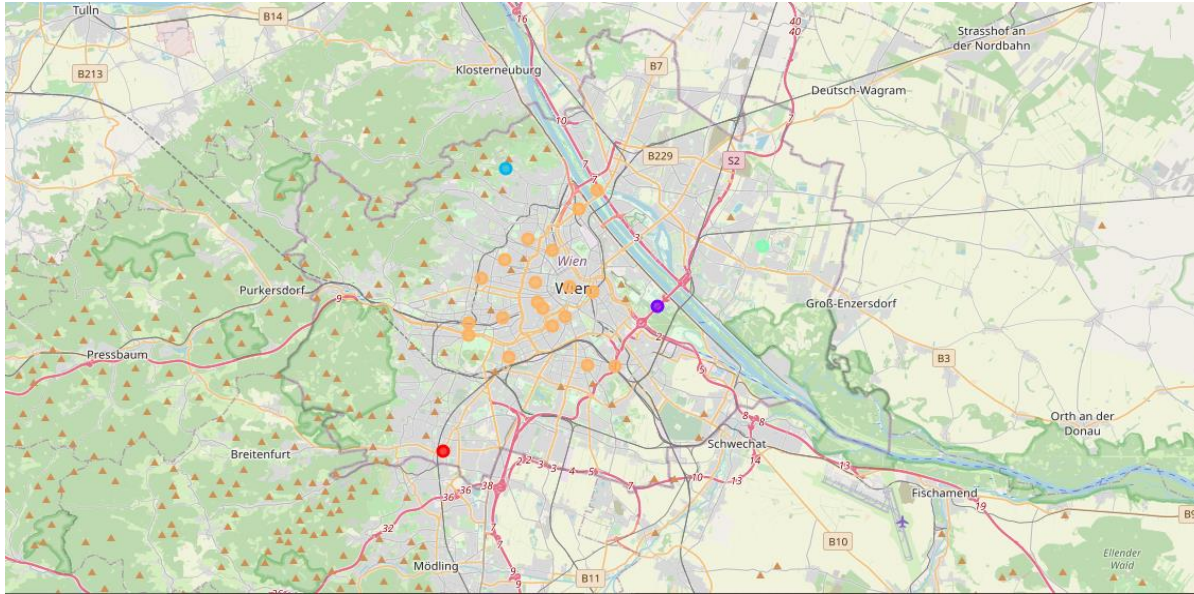
▶ Population 1,888,776

▶ Number of Districts : 23

Singapore

▶ Located in Singapore, Southeast Asia
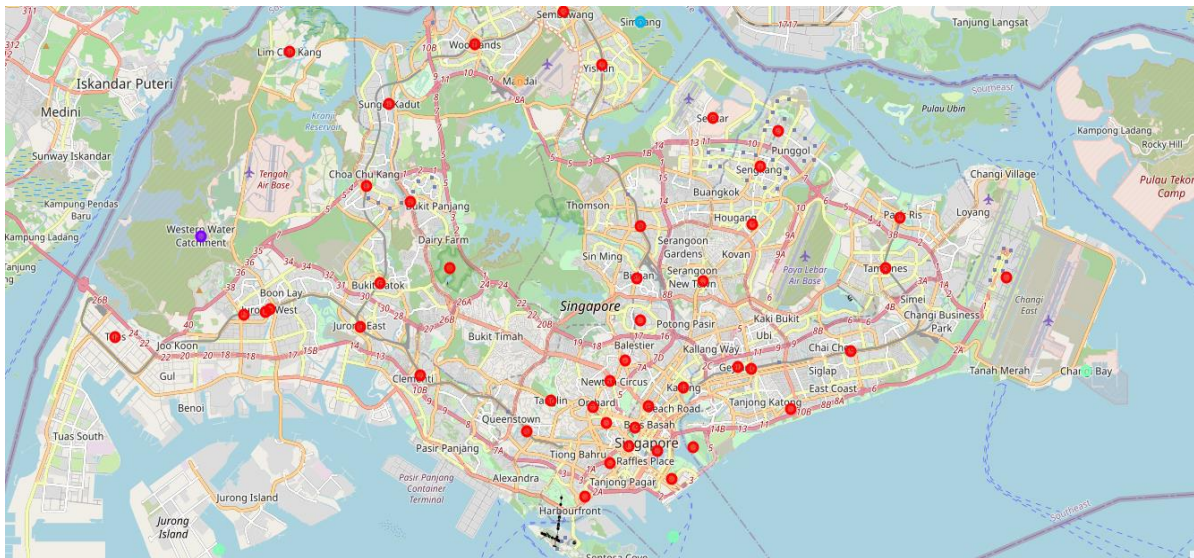
▶ Population: 5,703,600

▶ Number of Districts: 55

Data Acquisition and Cleaning

- Vienna Location data scraped Data from [Austria's Open Data](#) site

- Singapore Location data scraped Data from [Singapore's Planning Areas Wiki](#)

- Unused columns and rows were dropped

- Both Location data frames geocoded to retrieve coordinates

- Venues and venue categories retrieved with Foursquare API

- K Means Clustering to group districts into clusters based on the similarities of their venues
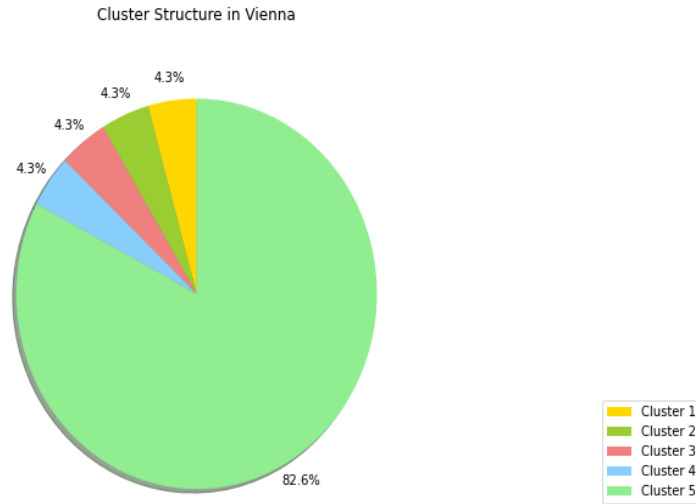
Clustered Map

- Clustering shows that both cities have the majority of districts in one cluster, Cluster 5 for Vienna (top) and cluster 1 for Singapore (bottom)
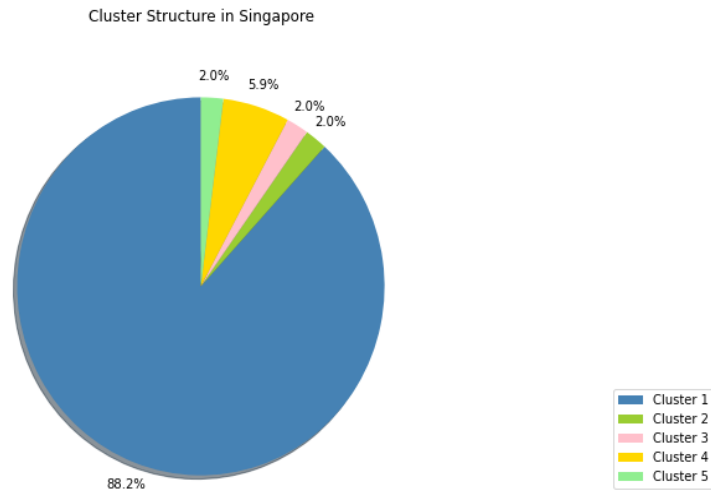
- In both cities, the districts not in the majority cluster lie close to the outer boundaries

Cluster Structure

Cluster Structure in Vienna

Cluster Structure in Singapore

- Cluster structure very similar in both cities

- Largest Cluster makes up ~83% in Vienna and ~88% in Singapore
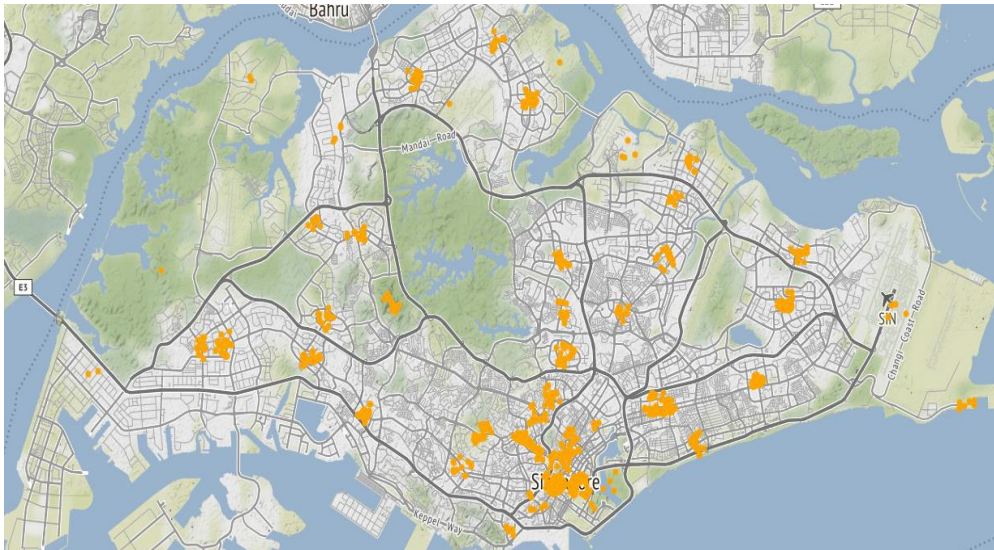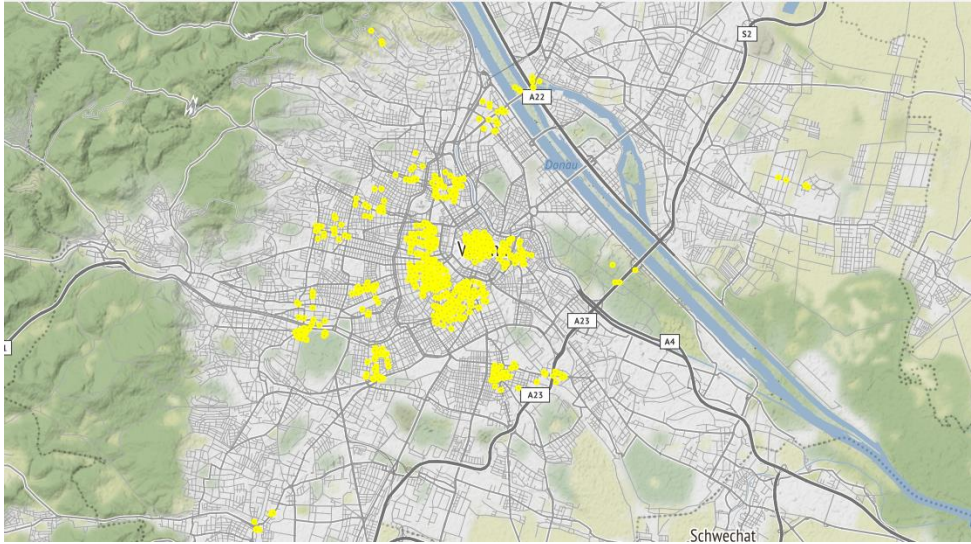
Most Common Places

Vienna

Singapore

- Indigenous Places of leisure abound
- Parks are found in both

- No gyms or other "wellness" venues in most common places

Greenspace

- Both are on the list of the Cities with the most Greenspace

- Interaction of venues with greenspace especially evident on Singapore map (bottom)

Conclusion

- Planning healthy cities requires a substantial use of greenspace
- Human centeredness lies more designing the city around a lifestyle that enhances life and not so much in providing wellness centers
- Promoting local cuisine might be a decisive factor in overall health