

where to live in Vienna?

—comparison between Vienna neighborhoods

most livable city



The World's Most Liveable Cities

Global cities ranked by liveability in 2018 (100=ideal)



Vienna

Do you want to live in Vienna? Where to live?

rental price?
cafés?
restaurants?
supermarkets?
schools?
kindergardens?
parks?
public transportation?

Aim:

To explore a way to find out
where to start a new life in Vienna

or in other words

Looking for:
an apartment with **convenient living facilities**
nearby with relative **cheaper rental price.**

Data sources:

- Vienna rental price

<https://www.virtualvienna.net/moving-to-vienna/accommodation/real-estate-rental-prices/>

- Vienna neighborhoods data

[https://data.wien.gv.at/daten/geo?service=WFS&request=GetFeature&version=1.1.0&typeName=ogdwien:GEONAMENO GD&srsName=EPSG:4326&outputFormat=csv](https://data.wien.gv.at/daten/geo?service=WFS&request=GetFeature&version=1.1.0&typeName=ogdwien:GEONAMENOGD&srsName=EPSG:4326&outputFormat=csv)

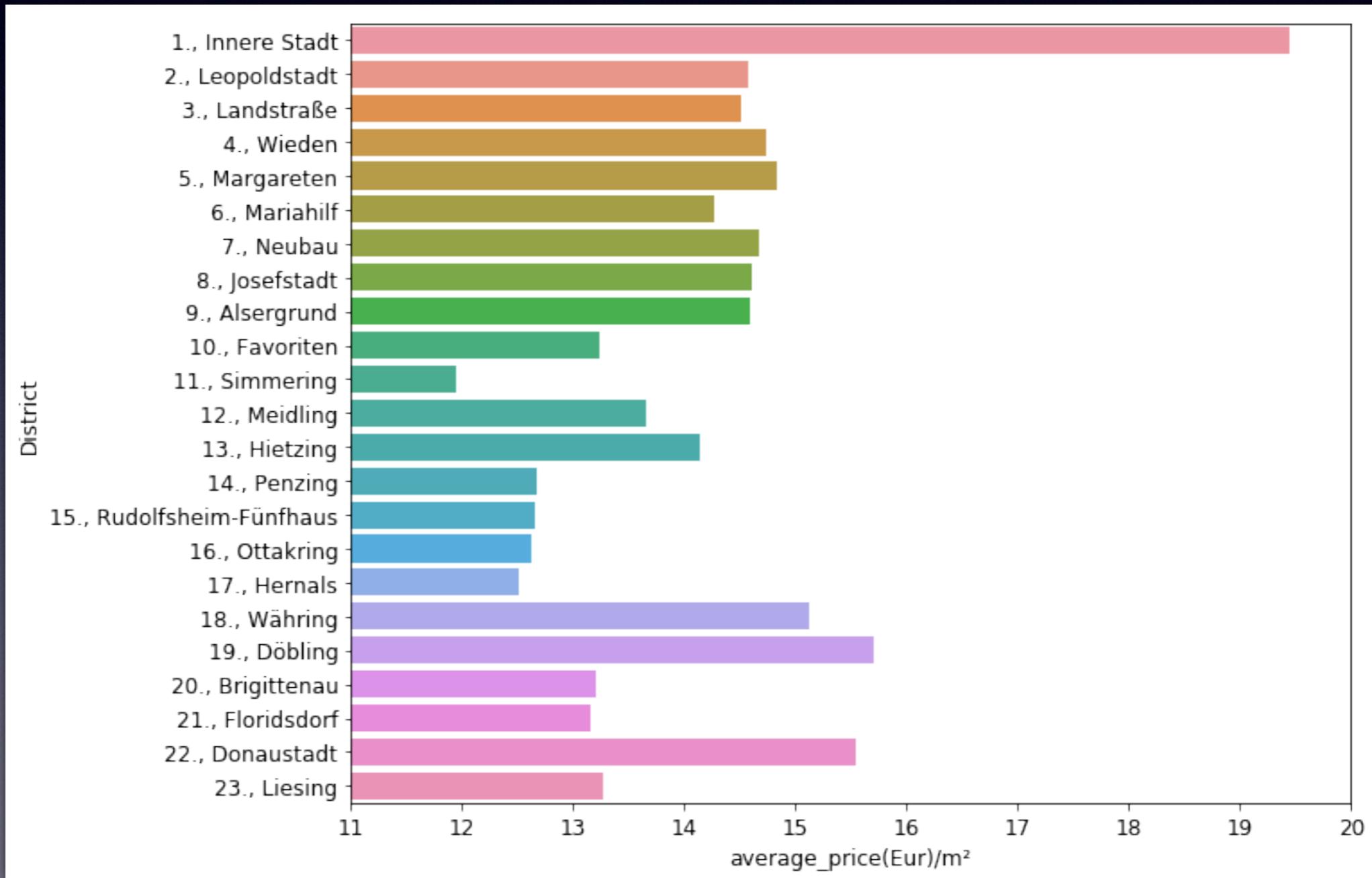
- Four-square API

Methodology:

- **Data wrangling: pandas, numpy**
- **Data visualization: seaborn Folium**
- **Clustering: Scikit learn: k means**

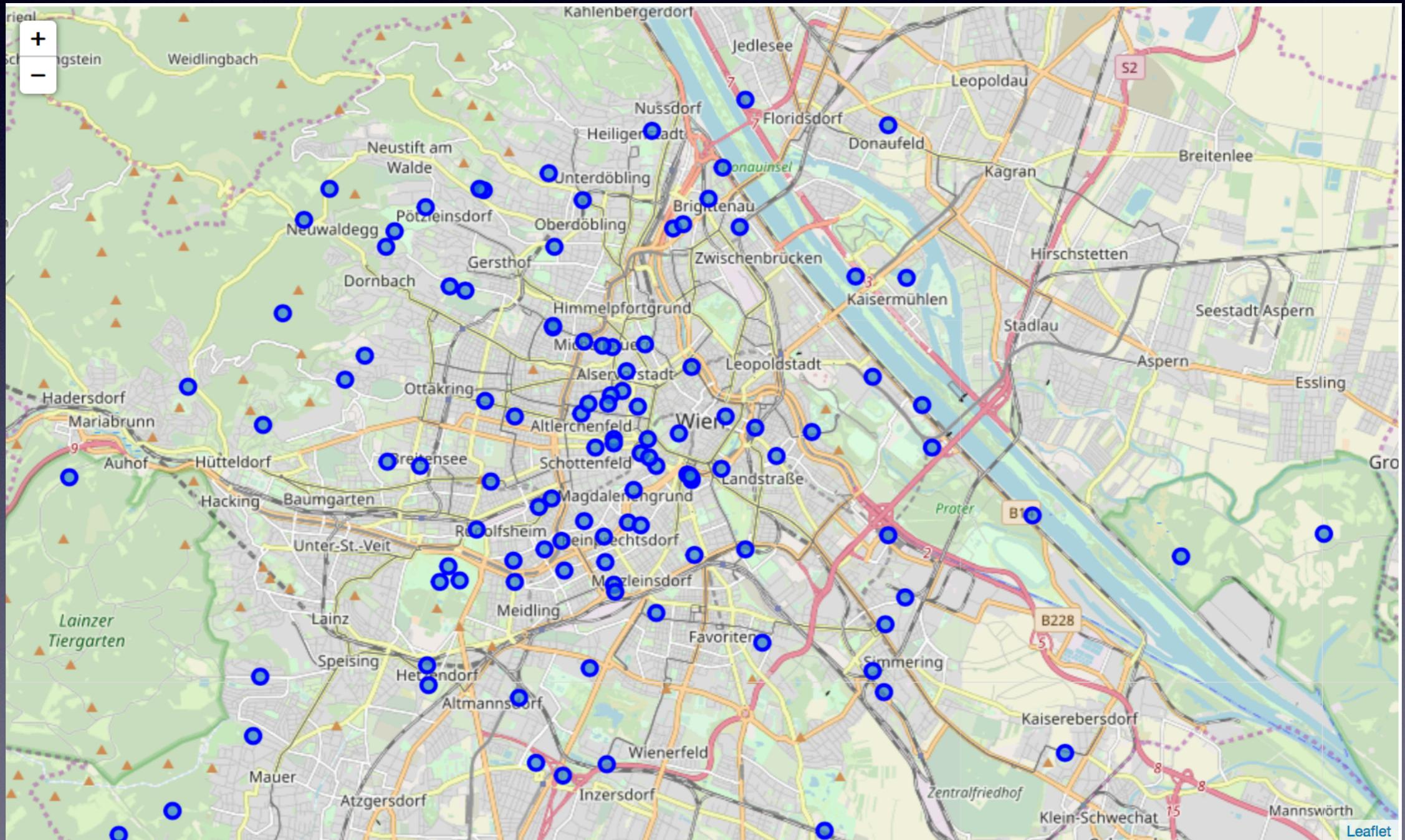
Results:

Rental price of each district in Vienna



Results:

Neighborhoods in Vienna



Results:

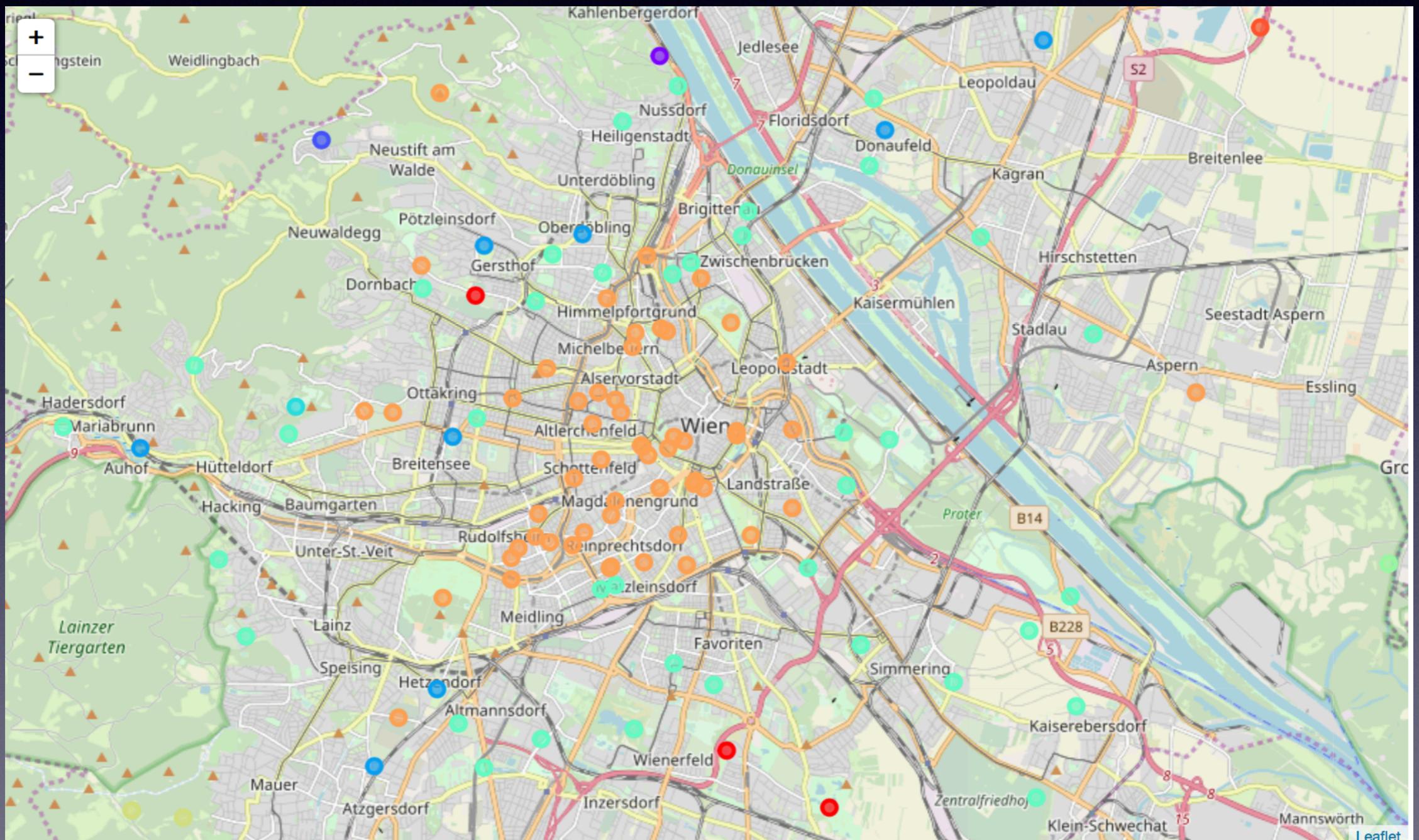
Top 10 venues of each neighborhood

here only shows a screenshot

	PostalCode	District	average/m ²	Neighborhood	Longitude	Latitude	Cluster Labels	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	4th Most Common Venue	5th Most Common Venue	6th Most Common Venue
0	1010	1., Innere Stadt	19.44	Hofburg	16.364944	48.206558	8	Café	Plaza	Restaurant	Hotel	Museum	Boutique
1	1010	1., Innere Stadt	19.44	Grünanlage Dr.-Karl-Lueger-Platz	16.380016	48.207450	8	Austrian Restaurant	Restaurant	Hotel	Italian Restaurant	Café	Bar
2	1010	1., Innere Stadt	19.44	U-Bahn Station Stubentor	16.379991	48.206918	8	Austrian Restaurant	Restaurant	Italian Restaurant	Hotel	Bar	Historic
3	1010	1., Innere Stadt	19.44	Weltmuseum Wien	16.363530	48.204799	8	Plaza	Restaurant	Art Museum	Café	Hotel	Museum
4	1010	1., Innere Stadt	19.44	Kartensammlung	16.367352	48.206001	8	Plaza	Café	Restaurant	Hotel	Italian Restaurant	Racecourse
5	1020	2., Leopoldstadt	14.57	Sportplatz Cricket	16.416773	48.206231	5	Hot Dog Joint	Other Event	Bus Stop	Soccer Stadium	Soccer Field	Racecourse

Results:

Clustering neighborhoods in Vienna



Conclusion:

In this project, we clustered the Vienna neighborhoods in order to find similar or more convenient living facility with relative cheaper price.

Depends on which neighborhoods feature the stakeholders care about, they can easily focus on the cluster which they are interested in. Then it is more easier to make a decision according to rental price where to start a few life in Vienna.