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# Recommending a stay area in Berlin for a party tourist

Coursera Capstone Project

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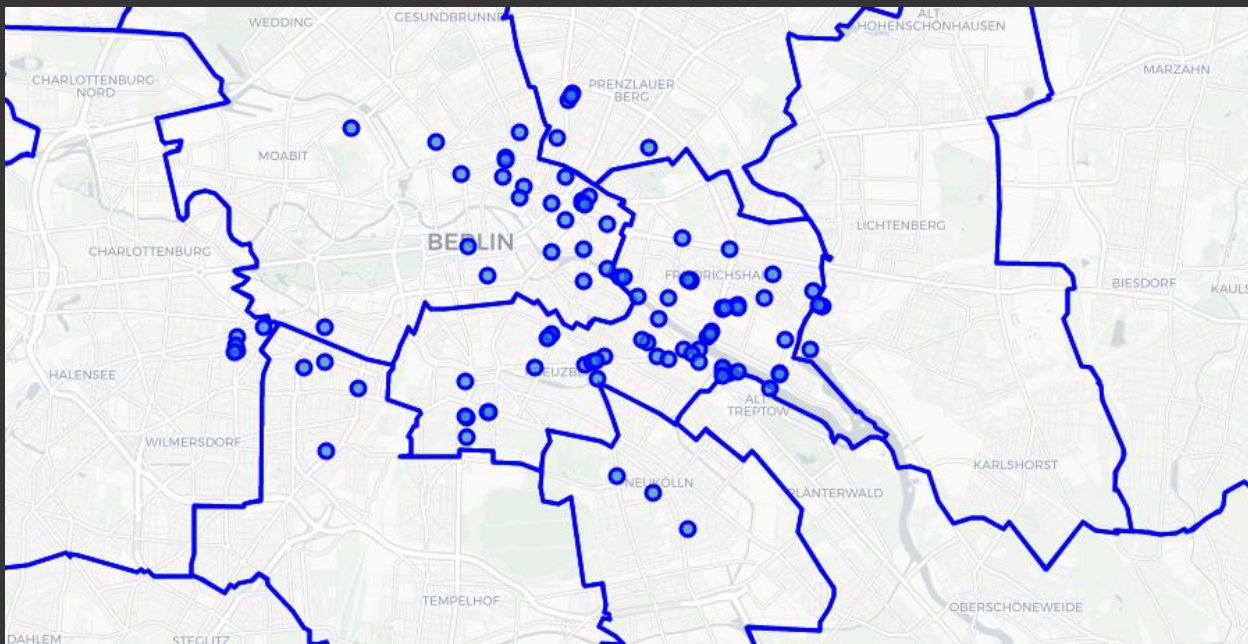
# Berlin in a very attractive destination for party tourists

- The flux of party tourists to Berlin is ever growing.
- A useful tool for tourists would be one that helps them to know which areas of Berlin are the most suited for booking an accommodation, if someone is looking to stay in a borough with a high concentration of nightclubs.
- That would avoid them long travel times.

# Which data would be need?

- Geospatial data of Berlin's center → geopy library
- Geospatial data of Berlin's borough → geojson file on GitHub: <https://raw.githubusercontent.com/m-hoerz/berlin-shapes/master/berliner-bezirke.geojson>
- Venues data set → Foursquare API

# Let's plot the resulting data



- **Just 100 venues are retrievable through the Foursquare API.**

# Let's locate the resulting data

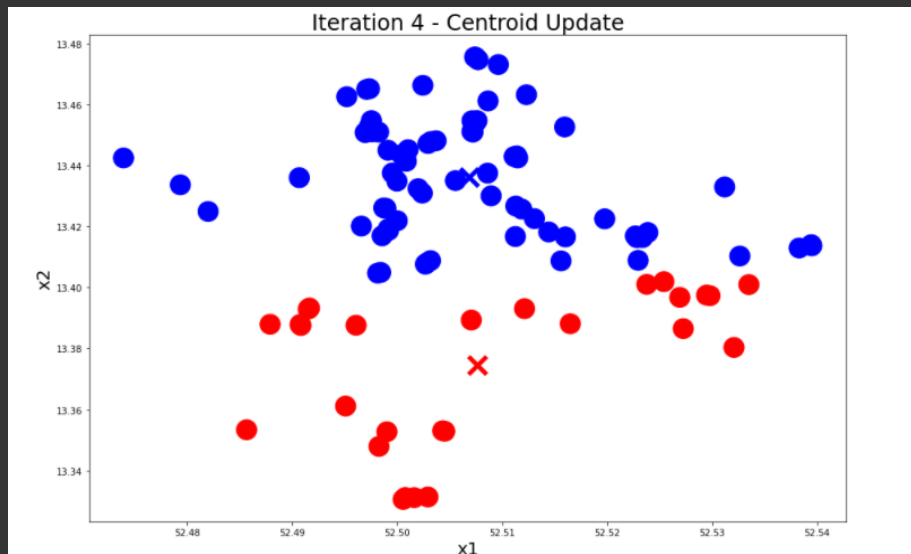
	name	categories	lat	lng
borough				
Charlottenburg-Wilmersdorf	4	4	4	4
Friedrichshain-Kreuzberg	54	54	54	54
Lichtenberg	3	3	3	3
Mitte	23	23	23	23
Neukölln	4	4	4	4
Pankow	5	5	5	5
Tempelhof-Schöneberg	4	4	4	4
Treptow-Köpenick	3	3	3	3

- Using `shapely.polygon` we assigned boroughs to the venues
- From 100 venues:
  - 54 were located in **Friedrichshain-Kreuzberg**
  - 23 were located in **Mitte**

# Let's analyze the results

- The center of the club cluster still could be anywhere, despite **Friedrichshain-Kreuzberg** having the highest numbers of clubs.
- We performed a **k-means cluster analysis** to detect cluster centroids and assign boroughs to them.

# Let's analyze the results




- It turns out one of the centroids was located in Friedrichshain-Kreuzberg and the other one was located in Mitte.

# We conclude...

- Both **Friedrichshain-Kreuzberg** and **Mitte** are the most suitable boroughs in Berlin to book an accommodation in if you are a party tourist. **Friedrichshain-Kreuzberg** has a slight edge since it has twice as much clubs.





**Thanks for  
your attention  
and have a  
blast in Berlin!**