

The background of the slide is white, decorated with a cluster of overlapping triangles in various shades of green and grey. These triangles are scattered across the top and right portions of the slide, with a denser group of green triangles in the upper left corner.

# Battle of the neighborhoods

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# Motivation & Goal

- ▼ Getting to know a city has to include nightlife
- ▼ As a non-local the amount of options can be overwhelming
  - Finding the city with the best nightlife and the Top 10 venues
- ▼ This has a use/business value for:
  - ▼ Tourists
  - ▼ Hostel owners
  - ▼ Activity providers

# Data acquisition

- ▶ Using Foursquare API calls for each city, a radius of 750m around city center
- ▶ Usage of Category Id-token for searches yields best results

```
url = 'https://api.foursquare.com/v2/venues/search?client_id={}&client_secret={}&v={}&categoryId={}&ll={},{}&radius={}&limit={}'.format(  
    CLIENT_ID,  
    CLIENT_SECRET,  
    VERSION,  
    '4bf58dd8d48988d116941735', #categoryId for Bars (Nightlife) from https://developer.foursquare.com/docs/build-with-foursquare/categories/  
    lat,  
    lng,  
    radius,  
    LIMIT)
```

- ▶ Calls for venue-details are premium!
- ▶ Once data is acquired saving it locally for preprocessing
- ▶ Saving everything in a dictionary containing dataframes for each city

# Example data - Munich

- ▼ List is unsorted initially, but contains all relevant information

	id	venue_name	latitude	longitude	rating
0	4b58d627f964a520d66d28e3	Kilians Irish Pub	48.138720	11.574556	8.2
1	4b335a36f964a520d51825e3	Der Pschorr	48.134823	11.575121	7.6
2	5602ea37498e7034baa6958e	Hans im Glück - Burgergrill	48.135984	11.578338	7.5
3	4bbc6329afe1b7136d4d304b	Biergarten am Viktualienmarkt	48.135194	11.576365	8.8
4	4b62bff3f964a52038512ae3	Schumann's Tagesbar	48.139579	11.574972	7.9
5	4ade0ca8f964a5205b6821e3	Bar Centrale	48.136821	11.579873	8.7
6	58eb681f26a953247d9a001c	Cole & Porter Tagesbar	48.134786	11.574339	7.9
7	4cec06cb595cb1f7f16bdc14	Weinhaus Neuner	48.137694	11.568340	8.8
8	4ff06f73f136e5332508001c	LUX Restaurant & Bar	48.137193	11.578747	7.9
9	4bdca5acccf52d7fc2b7786d	Sub	48.132481	11.573659	7.8

# Example data - Munich

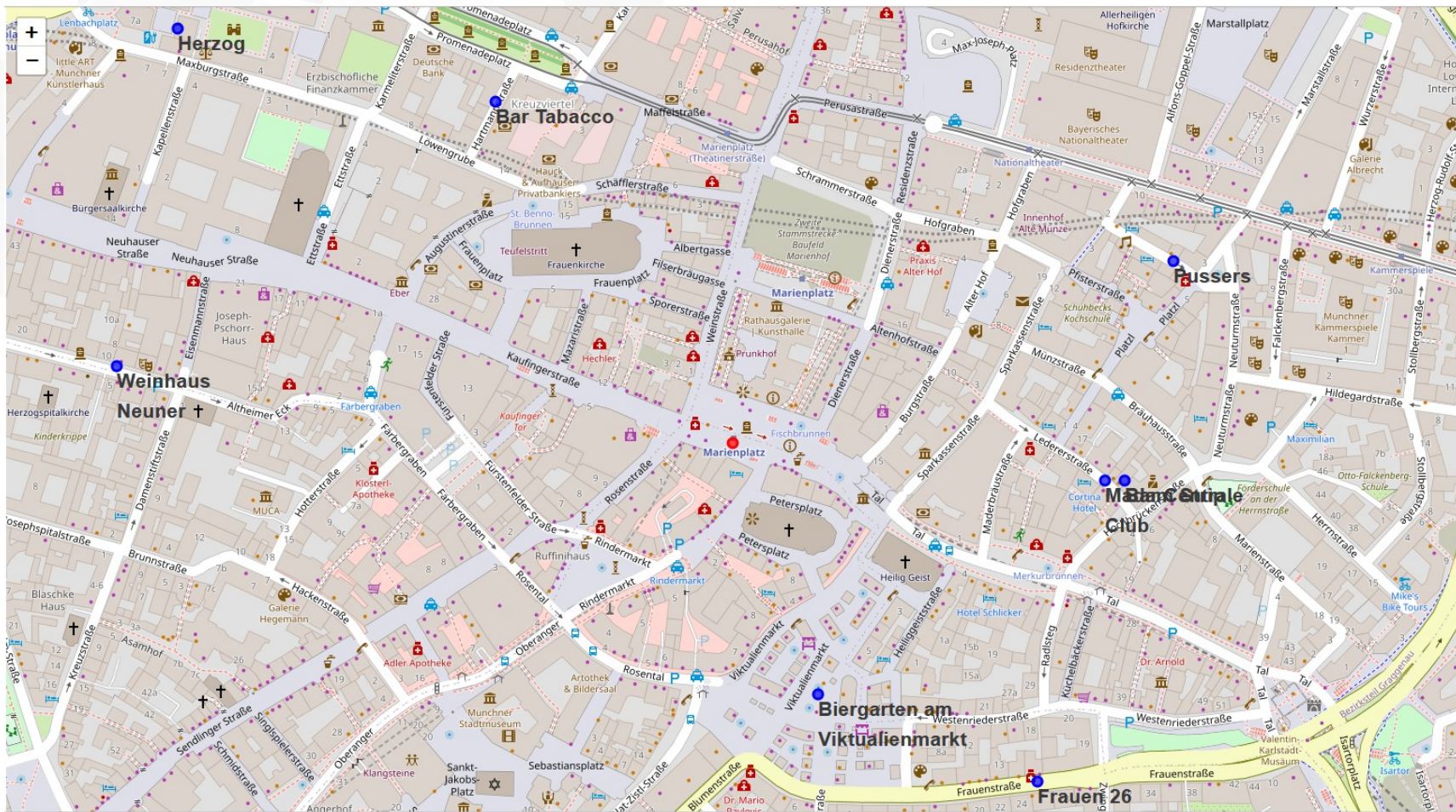
Sorted we have all the data we need for the best venues  
750m around city center

	id	venue_name	latitude	longitude	rating
14	572f9097498ed768a7f4cca2	The High	48.133101	11.572939	9.2
3	4bbc6329afe1b7136d4d304b	Biergarten am Viktualienmarkt	48.135194	11.576365	8.8
7	4cec06cb595cb1f7f16bdc14	Weinhaus Neuner	48.137694	11.568340	8.8
17	529cad3411d216970da64d58	Déjà Bu?	48.133001	11.576824	8.8
5	4ade0ca8f964a5205b6821e3	Bar Centrale	48.136821	11.579873	8.7
49	4bdcb658c79cc928ecc887e9	Pusser's	48.138500	11.580426	8.6
44	4b74556cf964a520ddd52de3	Bar Tabacco	48.139715	11.572672	8.4
35	568e8f9d498e8e46ab27027c	Herzog	48.140279	11.569027	8.4
21	4ca1f27e46978cfaed37c07f	Madam Strip Club	48.136821	11.579639	8.4
19	52913b2c11d264c5751010d2	Frauen 26	48.134523	11.578873	8.4



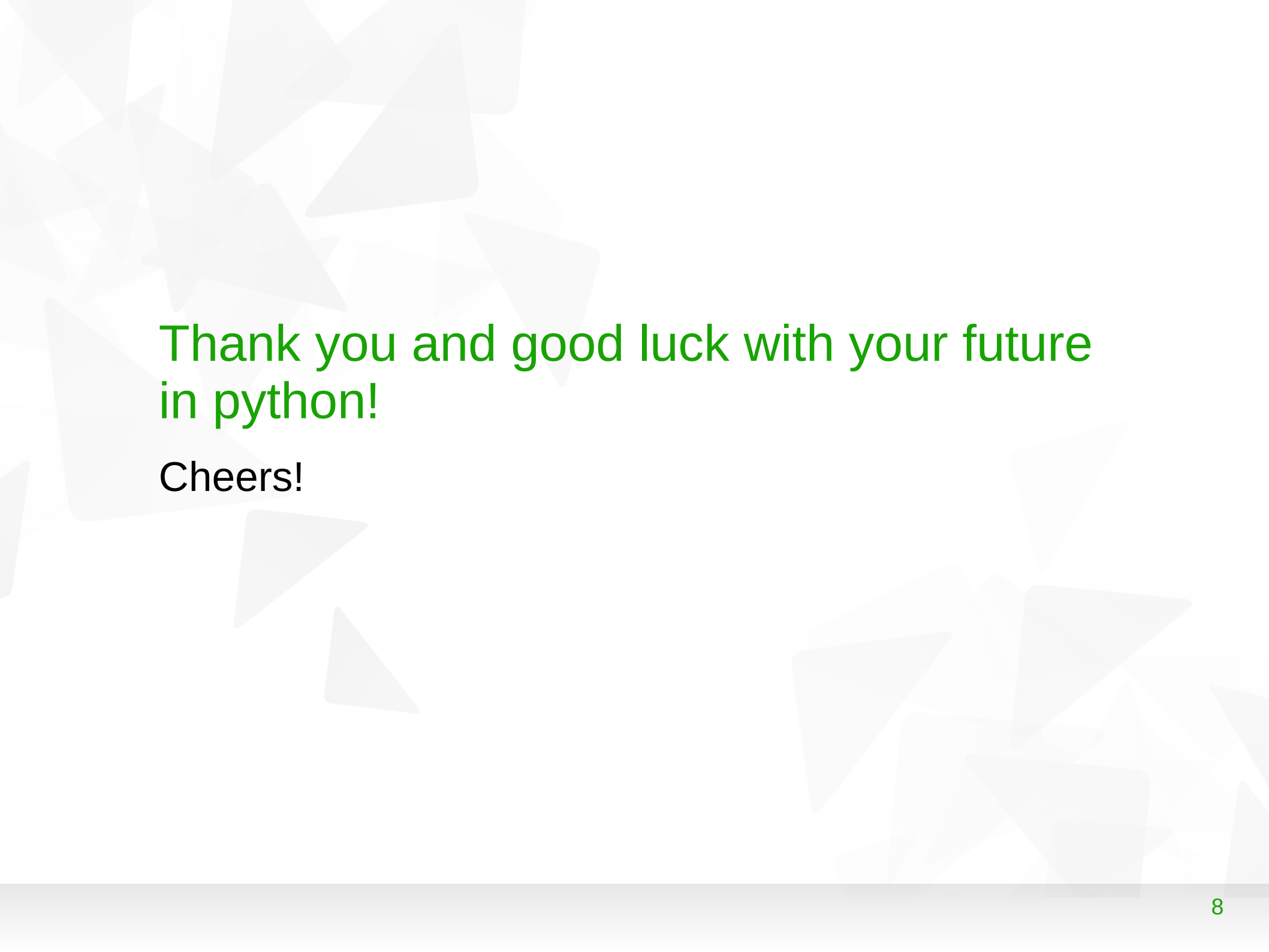
# Results

- Finally creating a map with the names of the best bars in Munich



# Discussion & Conclusion

- ▼ Usage of categoryID far superior to simple search term
- ▼ Saving and loading data locally recommended if venue details are used
- ▼ Munich is the best city for a pub crawl in a selection of Toronto, Manhattan, Berlin and Munich
- ▼ A disadvantage is the overlapping of the labels in the map



Thank you and good luck with your future  
in python!

Cheers!