

Relocation to Berlin

IBM-Coursera

Capstone project

Intro

- Moving to Berlin:
 - Berlin is a world city of culture, politics, media and science. Its economy is based on high-tech firms and the service sector, encompassing a diverse range of creative industries.
 - It's simply beautiful, but how to choose the right place?

Problem at hand

- Moving to a new country :
- Factors considered:
 - 1- Cost
 - 2- Living quality

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- If you are going to move to Berlin, where is the best place to rent an apartment?

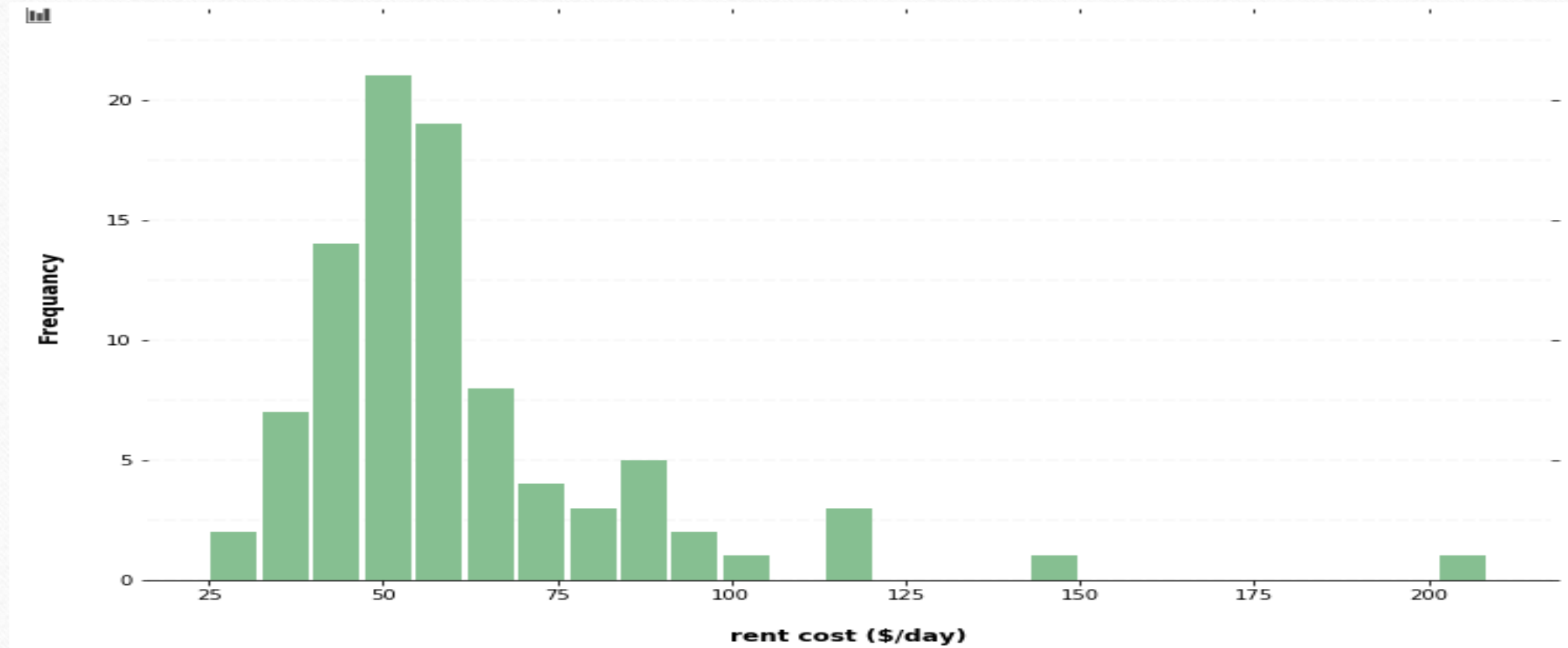
- Analysing airBnB data:

- We can find indicators of the rent cost (\$/day).
 - mean: 60.9
 - std : 26.0
 - min : 25.0
 - max : 208.6

- The Range is very high

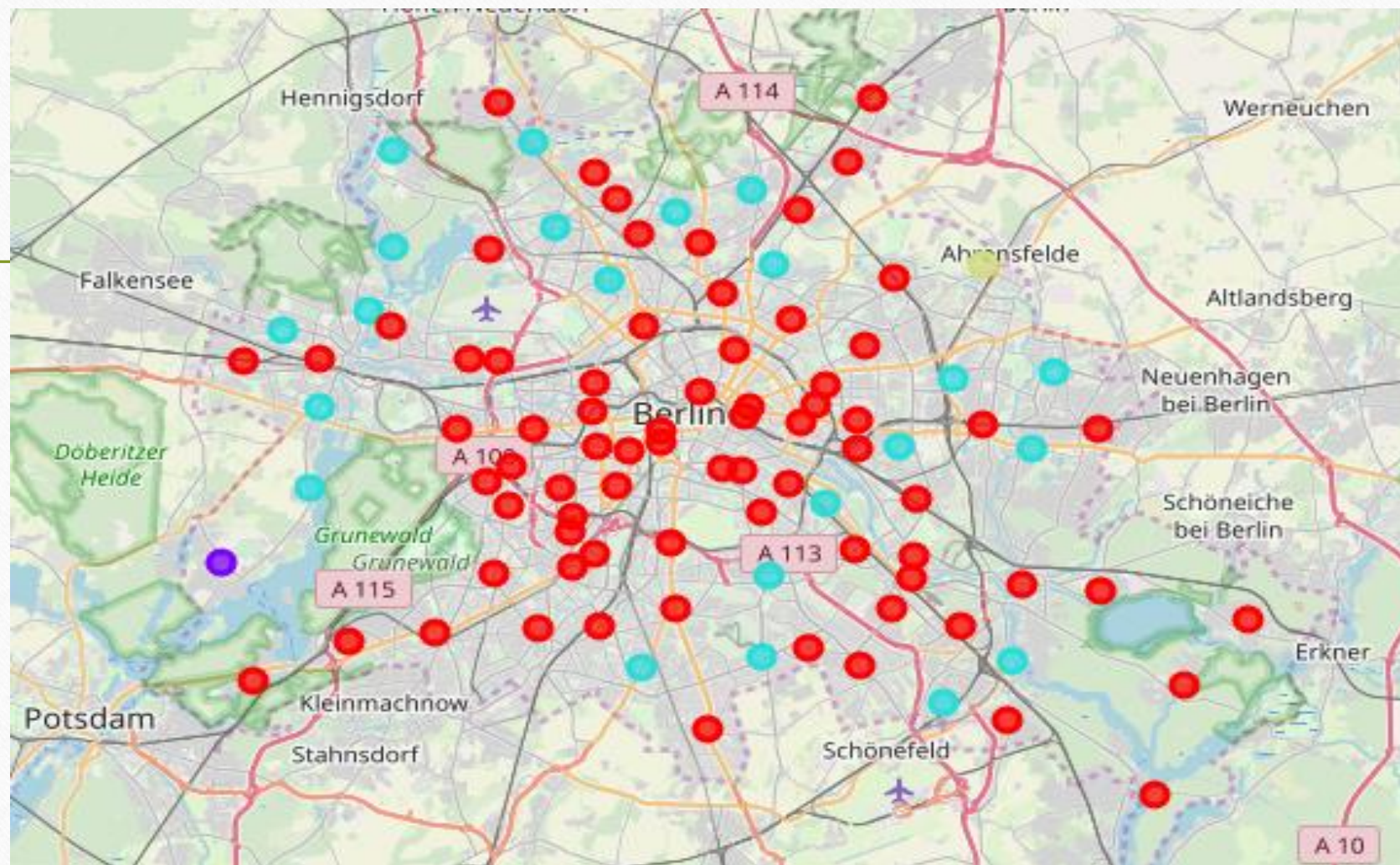
- max : 208.6
- min : 25.0 (Lübars)
- Range = 183.6

The 208.6 can be considered as an out lair.



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- Merging data of venues using Foursquare API:
 - To facilitate segmentation process of neighbourhoods.

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- Undergoing clustering process using Kmean method
 - $K = 4$



Cluster	Name	neighbourhoods	venues
1	Hangout	65	Bars, Café, night clubs, all types of restaurants.
2	Family	1	farm, zoo exhibit, home service, electronics store
3	Shopping	22	supermarket, plaza, shopping stores, home store, circus
4	foreign	1	gas station, farmers market, electronic store, foreign restaurants

Results:

- The 1st cluster (Hangout cluster) is the major cluster as it contains 73% of neighbourhoods.
- For me as I love hanging out, the 1st cluster is the best choice.
- Luckily the least expensive neighbourhoods happen to be also in the 1st cluster. Thus, Lübars is the choice.