

Big Data - Foundations and Applications

Lesson #6 - Geocoding

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What is geocoding?

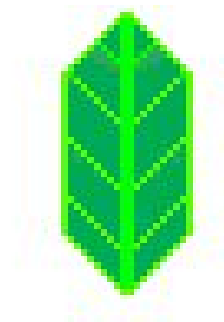


Geocoding is the process of transforming a description of a location.

API



Geocoder



Folium

Where students are from?

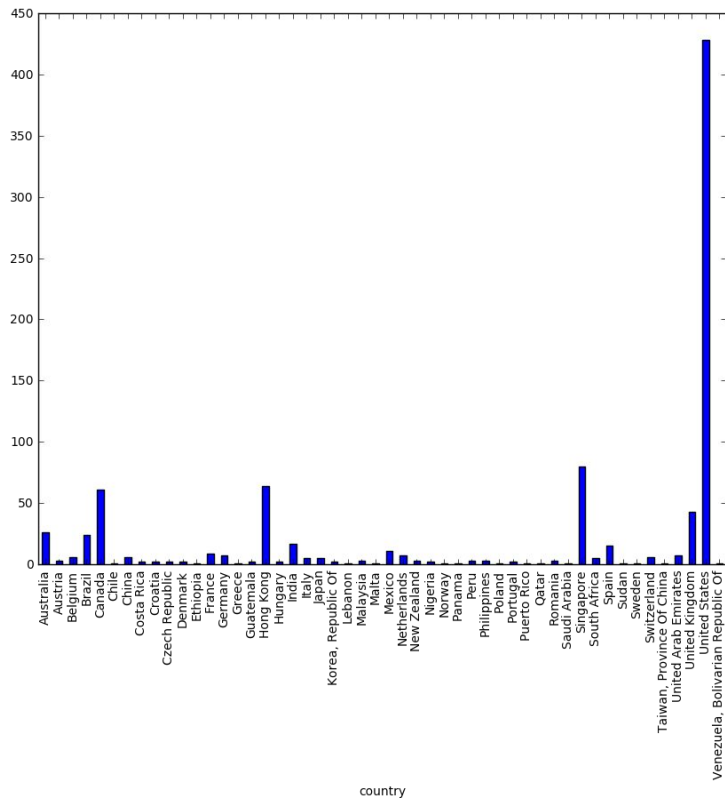
Studying about frequency

	id	industry	country	city
0	10001	Agriculture	United States	Davis
1	10002	Arts & Education	Australia	Perth
2	10003	Arts & Education	Austria	Lieboch
3	10004	Arts & Education	Brazil	São Paulo
4	10005	Arts & Education	Canada	Georgetown
5	10006	Arts & Education	Canada	Hamilton
6	10007	Arts & Education	Canada	Milton
7	10008	Arts & Education	Canada	Mississauga
8	10009	Arts & Education	Canada	Regina
9	10010	Arts & Education	Canada	Toronto



Where students are from?

Studying about frequency



Download:

- WhereAreStudentsFrom.ipynb:
<https://goo.gl/m5NMyP>
- Students_raw.csv:
<https://goo.gl/broV3K>

Geocoder + folium + open data + assessment



<http://ckan.imd.ufrn.br/>

- Implementing reporting figures about the number of "municipal schools"
- A heatmap figure considering the number of employees in each unit (#assessment)

Tips

Notebook

```
# Import pandas  
import pandas as pd  
  
# Assign url of file: url  
url = 'http://ckan.imd.ufrn.br/dataset/bfe9529d-5a43-49e1-b855-8f1caff9f123/re  
  
# Read file into a DataFrame and print its head  
df = pd.read_csv(url, sep=';')
```