

Mini Project

Vote Here:

- <https://forms.gle/qHQKfFCeDR5Z2BKR9>
- <https://tinyurl.com/miniprojectbootcamp>

Mini Project

- Read in a table/txt/csv file or make your own file
- Make 2 plots
- Present code/plots

Datasets

- <https://perso.telecom-paristech.fr/eagan/class/igr204/datasets>

```
In [1]: 1 #Mini Project example
        2 import pandas as pd
        3 import numpy as np
        4 import matplotlib.pyplot as plt
```

```
In [18]: 1 country_data = pd.read_csv("factbook.csv", header = 0, sep= ';')
```

```
In [19]: 1 country_data
```

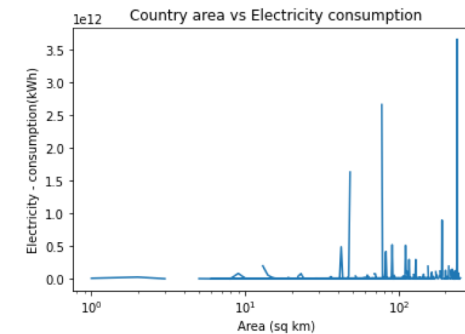
Out[19]:

	Country	Area(sq km)	Birth rate(births/1000 population)	Current account balance	Death rate(deaths/1000 population)	Debt - external	Electricity - consumption(kWh)	Electricity - production(kWh)	Exports	GDP ...	pr
0	String	double	double	double	double	double	double	double	double	double	...
1	Afghanistan	647500	47.02	NaN	20.75	8000000000	652200000	540000000	446000000	21500000000	...
2	Akrotiri	123	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	...
3	Albania	28748	15.08	-504000000	5.12	1410000000	6760000000	5680000000	552400000	17460000000	...
4	Algeria	2381740	17.13	11900000000	4.60	21900000000	23610000000	25760000000	32160000000	212300000000	...
...
259	West Bank	5860	32.37	NaN	3.99	1080000000	NaN	NaN	205000000	1800000000	...
260	Western Sahara	266000	NaN	NaN	NaN	NaN	837000000	900000000	NaN	NaN	...
261	Yemen	527970	43.07	369900000	8.53	5400000000	2827000000	3040000000	4468000000	16250000000	...
262	Zambia	752614	41.38	-181400000	20.23	5353000000	5345000000	8167000000	1548000000	9409000000	...
263	Zimbabwe	390580	29.74	-230300000	24.66	4086000000	11220000000	8839000000	1409000000	24370000000	...

264 rows × 45 columns

```
In [28]: 1 plt.plot(country_data['Area(sq km)'][1:], country_data['Electricity - consumption(kWh)'][1:] )
        2 plt.title('Country area vs Electricity consumption')
        3 plt.xscale('log')
        4 plt.xlabel('Area (sq km)')
        5 plt.ylabel('Electricity - consumption(kWh)')
```

Out[28]: Text(0, 0.5, 'Electricity - consumption(kWh)')



Accounts

- Github

- <https://github.com/>

- Overleaf

- <https://www.overleaf.com/>