

# Country analyzer

A program that imports data as CSV files store them as NumPy arrays.

Takes in a country as input and asks for what the user might want to know about it.

Then it gives further instructions about what exactly to choose. The choices labeled (graph) have the option to plot a graph of either a comparison of 2 countries or a visual bar representation of all the endangered species.

```
(venv) C:\Users\nimna\Documents\edu\COURSES\ENDG 233\Final Project>py country_analyzer.py
What country would you like to know about?
What would you like to know about Cuba ?
```

```
Endangered species          - e
UN Country data             - c
Population                  - p
General information about another country (graph) - g
Compare population trends across two countries (graph) - pl
Return to previous menu     - q
```

```
Please select the appropriate letter corresponding to your choice (case sensitive) : g
What kind of General information about another country would you like to know about?
Endangered species by UN region          - r
A comparison of endangered species by UN region (graph) - c
Return to previous menu                  - q
```

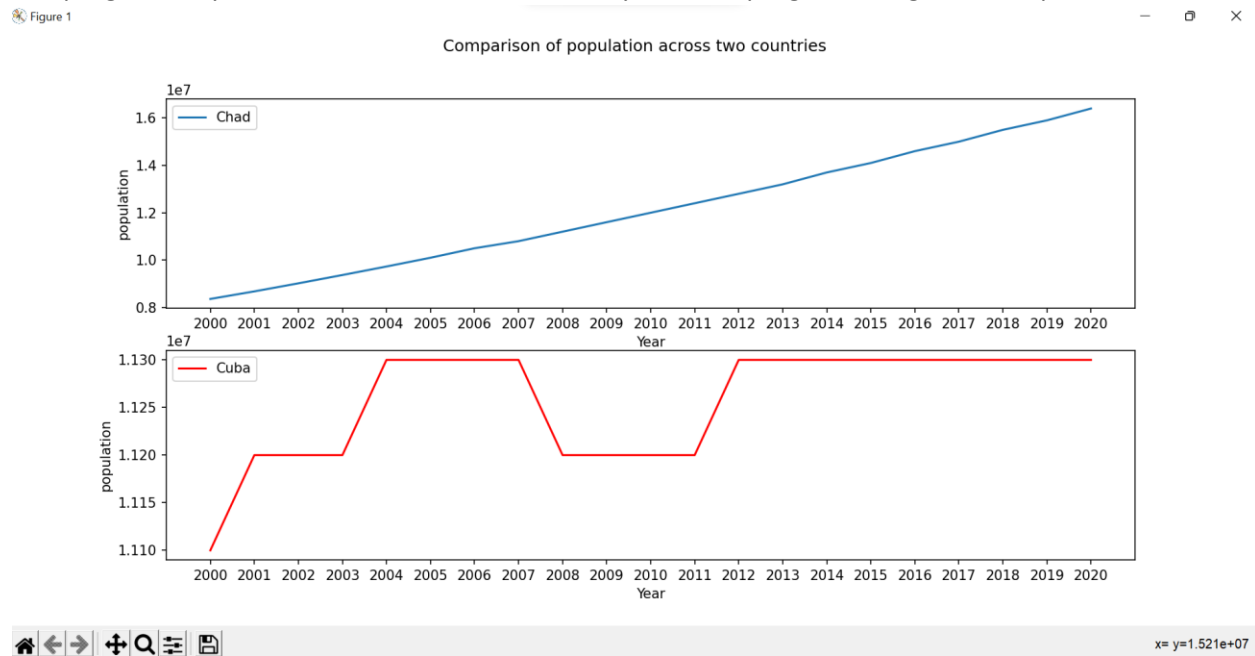
```
Please select the appropriate letter corresponding to your choice (case sensitive) : r
Which UN region would you like to know about?
Asia
Europe
Africa
Americas
Oceania
To return to the previous menu type - 'q'
```

```
Please select the appropriate region corresponding to your choice (case sensitive) : Asia
your input is invalid please select a valid option
Which UN region would you like to know about?
Asia
Europe
Africa
Americas
Oceania
To return to the previous menu type - 'q'
```

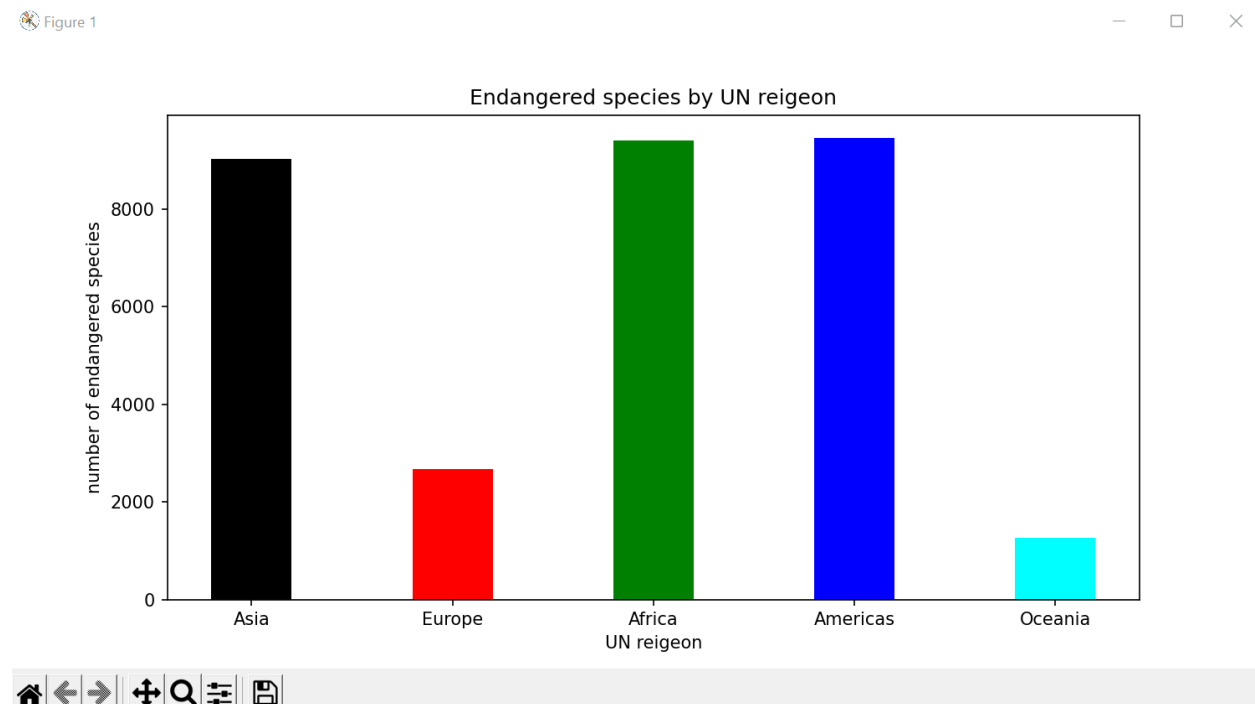
```
Please select the appropriate region corresponding to your choice (case sensitive) : Asia
In Asia there are 4303 plants 2033 fish 1463 birds 1227 mammals
```

There is also an option to go back to the previous menu if the user wishes to change their option.

The program only terminates if the user successfully runs the program and gets an output.

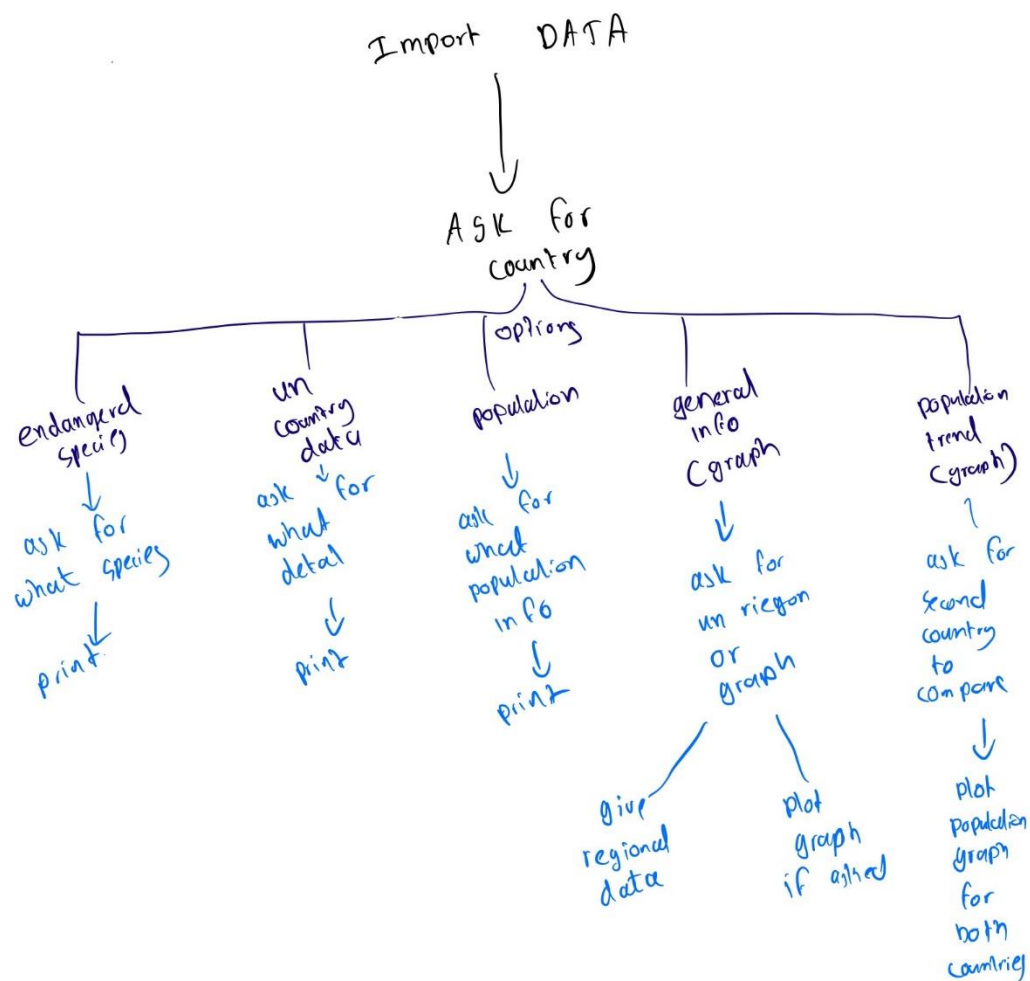


A comparison of the population of Cuba and Chad



A bar graph visualizing the number of endangered species in each UN region.

29-Nov	started project	
30-Nov	made a midmap of what questions to ask user and what to output	mehvish
04-Dec	made while loops to ensure inputs are valid	Nimna
05-Dec	created the class Country for calculations	Nimna
05-Dec	finalized the plotting of graphs	Nimna
07-Dec	commenting	mehvish



**Sources:**

The University of Calgary, Department of Electrical and Software Engineering, Engineering 233, Programming with Data, Fall 2021.