User Guide

For Pokémon information program

1007-Final Project

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1. # Introduction:

This program is a local application helping ‘Pokémon Go’ players to know information about different Pokémon and catch them more easily and efficiently.

Information that the program can provide include

1) Pokémon Basic Info (Pokémon id):

A. Show its overall CP ranking/percentile/mean
B. Show its overall HP ranking/percentile/mean
C. Show the same type Pokémon with it
D. Show its CP ranking/percentile/mean among the same type Pokémon
E. Show its HP ranking/percentile/mean among the same type Pokémon

2) Pokémon Go Info:

I. Overall Pokémon Go Info about a certain Pokémon (Pokémon id):

A. Show whether people have seen it in Pokémon
B. Show the cities where it was often observed (histogram)
C. Show the Pokémon whom it was often observed together with
D. Show distribution of its appearance time of the day in pie chart'
E. Show world map of all Pokémon occurrence in base map
F. Show world map of the given Pokémon occurrence in base map
G. Show box plot of the given Pokémon occurrence distance to poke stop
H. Show box plot of the given Pokémon occurrence distance to gym
I. Show line chart of all Pokémon occurrence frequency vs hour of day

II. Regional Pokémon Go Info about a certain Pokémon in a certain city (Pokémon id, city name)

A. Show whether people have seen it in this city
B. Show the Pokémon which are often observed in this city (histogram)
C. Show the Pokémon often observed together with it in this city
D. Show distribution of its appearance time of the day in this city(pie chart)
E. Show wind speed and temperature relation in this city (scatterplot)

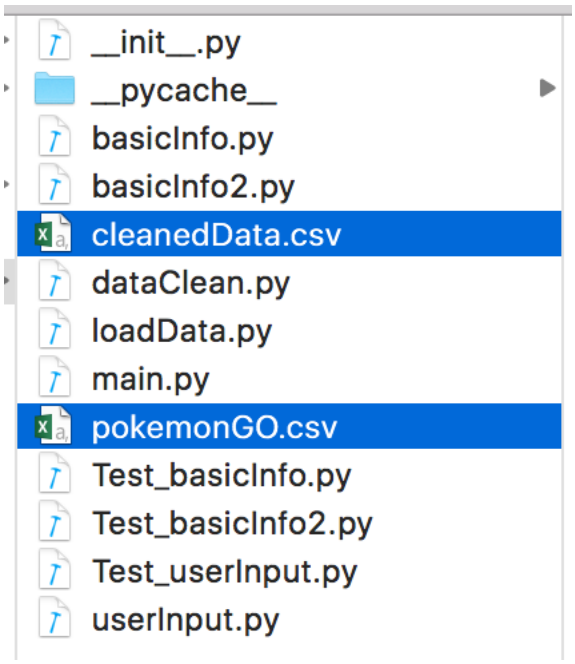
2. # How to use this program:

1) Make sure all data files are in the same directory as the main program. Like the image show below:

'cleanedData.csv': please download from our google drive link (from your NYUaccount) into the same directory as the main program.
https://drive.google.com/a/nyu.edu/file/d/0BxWGUQbHQtu1b2M5Q05IQnpwdTA/view?usp=sharing

'practiceData.csv': it's a clip of 'cleanedData.csv' used for function tests.

'pokemonGO.csv': it contains the basic info we need about pokemons.



2) Open 'Terminal' and install basmap by following command:

e.g. conda install basemap

3) Open 'Terminal'and set the path to the folder location.

e.g. cd Desktop/Programming_for_DS/1007Finalproject/final_project

4) Excute main.py to start local server.

e.g. python main.py

5) Follow the instruction to obtain information you need.

6) The plots will pop up and be saved in the '.png' file indicated on the screen. But please do close the plot manually to proceed our program.

Attention:

1. Users should input following the instruction strictly. Any other input will be regarded as invalid. Mind surplus comma or space.

2. Make sure all data files are in the same directory as the main program. Like the

image show above.

3. Internet is not needed to access any results. All results come from the two data files, cleanedData.csv and pokemonGO.csv.

4. The plots will pop up and be saved in the '.png' file indicated on the screen. But please do close the plot manually to proceed our program.

3. To Grader

The data file, cleanedData.csv, is data which has been cleaned. The data clean program is called 'dataClean.py'. We list it with all other programs and files but it will not be executed while using the main program.