

## Google Search Suggestions Crawler

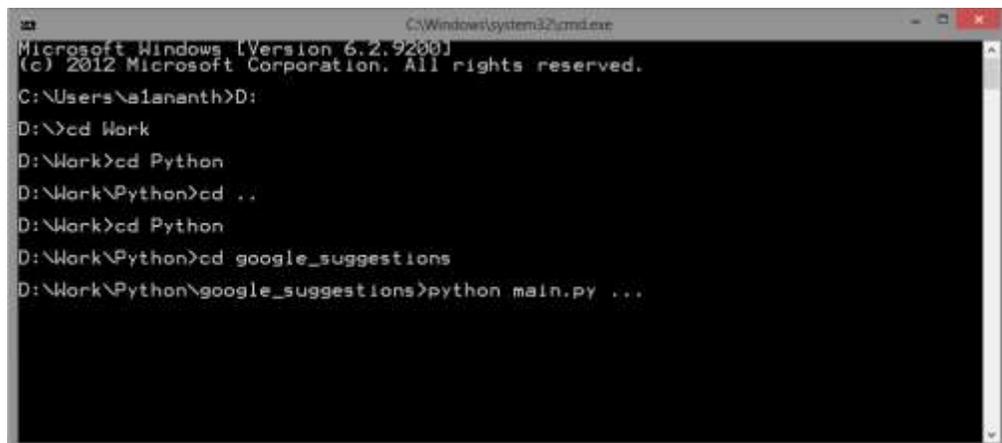
- The file 'proxies.txt' in the code folder will be used to read proxy configuration. A proper format of entering proxies is:

```
144.16.192.247:8080
10.3.100.211:8080
10.3.100.207:8080
```

- The input keywords have to be placed in a txt file inside the "input" folder. An example:

```
door
tesla
pro
```

- Command line parameters
  - o The program takes 3 command line parameters: input, loc, append.
  - o The "loc" parameter is used to identify the google location parameter. The search suggestions are obtained for that particular country/region. Default value is 'en'. Possible values are: en, de, fr, es, it.
  - o The "append" parameter accepts either 0 or 1. Default value is 0. If it is set to 1, along with search suggestions for the keyword, the search suggestions of keyword appended with each character are also crawled. i.e. if input keyword is 'test', the code finds search suggestions for: test, testa, testb, testc ... testy, testz, test0, test1, test2 ... test8, test9
  - o The "input" parameter is mandatory. It decides what input file to use for finding keywords.
  - o Parameters are given using a "--" (double dash), for example --input , --loc , --append
- Running the code
  - o First open Command Prompt, and move to the directory where the program is located.



```
C:\Windows\system32\cmd.exe
Microsoft Windows [Version 6.2.9200]
(c) 2012 Microsoft Corporation. All rights reserved.
C:\Users\alananth>D:
D:\>cd Work
D:\Work>cd Python
D:\Work\Python>cd ..
D:\Work>cd Python
D:\Work\Python>cd google_suggestions
D:\Work\Python\google_suggestions>python main.py ...
```

- As an example, say we put the keywords in input/keywords.txt , and we want suggestions from google.fr without the need to append a-z and 0-9. Then the command is:

```
python main.py --input=keywords --loc=fr
```

- Lets say we need to process the input file input/new\_keywords.txt, and we want the suggestions from google.com with appending on.

```
python main.py --input=new_keywords --append=1
```

- Following example shows how to process keywords from input/newer\_keywords.txt from google.es with appending on.

```
python main.py --input=newer_keywords --loc=es --append=1
```

- Output:

- As the program runs, you can see the progress in the command prompt window. The output files are generated in the “output” folder.
  - You can sort the folder by “Date Modified” to easily view the new files being created.
  - The columns in the output file are: S. No., Location, Seed, Rank, Search Suggestion.
  - The output file name is printed in the Command Prompt window upon completion of the program for your ease.
- If you wish to install this program on another computer, follow these steps:
- Download and install Python 2.7.8 (download link: <https://www.python.org/download/> )
  - Add the path of Python installation to the PATH Environment Variable. (Default path is: C:\Python27, and you can go through <http://www.nextofwindows.com/how-to-addedit-environment-variables-in-windows-7/> for info on adding to PATH env var)
  - Download and install the Python LXML library version 3.3.6 (Download link: <http://www.lfd.uci.edu/~gohlke/pythonlibs/#lxml>, choose appropriate version based on your System Architecture)
  - That’s it, you can start using the program as shown above.

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