

Instructions

All terminal commands are highlighted.

Make sure you first have python 3 installed.

You can check this by running "python -V" in the terminal.

If the version it writes is not 3, download python 3 and for the instructions, use `python3` everywhere instead of `python`.

Steps for the very first time

1. unzip the downloaded folder
2. Open the terminal
3. Type in `cd` and space
4. open the terminal and drag (click, hold down and move mouse) the unzipped folder onto the terminal
5. It should have pasted the folders path after `cd` onto the terminal. Press enter
6. type `python -m pip install -r requirements.txt` and press enter

Every other time you would like to run the script, you need to redo steps 2-4 from the first time, so your terminal is running in the folder of the script.

Now that your terminal is in the folder of the code, you can run the script.

You can type `python main.py` into the terminal and press enter to run the script without any options.

There are two options in the form of flags you can supply to alter the functionality of the script.

URL

Where URL is the base URL of the city who's listings you want to scrape. Example:

<https://www.zillow.com/westchester-county-ny/>

example:

`python main.py https://www.zillow.com/westchester-county-ny/`

-ownr

This flag is optional. Only listings for sale by the owner will be grabbed. Defaults to False if not present

example:

```
python main.py https://www.zillow.com/westchester-county-ny/ -ownr
```

--help

This will not run the script, it will only display a message showing all the available flags and how to use them

Note: there are two dashes in the command

example:

```
python main.py --help
```

Output while running

While the script is running, it will output certain information about what it is doing.

Finally it will output "FINISHED". It is done running and you can now open the output file to view the results. You cannot have the file open in something such as excel while the script is running or it will error as it will not be able to write to it.

If it ever displays something cryptic such as

Traceback (most recent call last):

```
File "C:\Users\main.py", line 99, in <module>
    main()
```

```
File "C:\Users\main.py", line 35, in main
```

```
    with open(outFile, 'r+' if continue_file else 'w', newline = "", encoding = 'utf-8') as
csvfile:
```

PermissionError: [Errno 13] Permission denied: 'output.csv'

and stops running, that means an error has occurred. It is unlikely for any unaccounted errors to occur, since I addressed any that had the possibility of occurring during my testing, but something unexpected can always happen. To address this, copy paste the entire error message, or take a screenshot, and contact me. I will fix it and get back to you.

The output does not need to be monitored, it is just auxiliary information while it is running.

If you run into any issues, or have any additional questions, feel free to reach out to me again.