

## How to install Python, the required libraries for this program, and run Jupyter Notebook

1) Download the latest Python release on the official website:

<https://www.python.org/downloads/>

Follow the instructions on the download.

### Make sure to check the Add Python to PATH option

On Windows, you can then open up the command prompt and type in “python” to see if it has been successfully installed. Python comes automatically installed with pip, which you will use to install the needed libraries in the next step.

2) Upgrade pip and use pip to install the following libraries:

1. Requests (<https://docs.python-requests.org/en/master/user/install/> )
2. BeautifulSoup (<https://www.crummy.com/software/BeautifulSoup/bs4/doc/> )
3. Jupyter Notebook (<https://jupyter.org/install> )

On Windows, you can do this by opening the command prompt, and typing in

1. python -m pip install --upgrade pip
2. python -m pip install requests
3. python -m pip install beautifulsoup4
4. python -m pip install notebook

3) Run the Jupyter Notebook file: google\_search\_scraper.ipynb

On Windows, to run Jupyter Notebook, you can go in the command prompt and type in

- jupyter notebook

Which should open the notebook and allow you to select the file you want to open.

To open a specific file, you can also navigate to the directory the file is in and type

- jupyter notebook google\_search\_scraper.ipynb

(if you are having trouble navigating to the directory in command prompt, you can also open up the folder the file is located in in File Explorer, and pressing shift + right click > Open Powershell Window here, and type the command in the Powershell Window)

4) Follow the instructions in the notebook.

Alternatively, there is a python script that you can run as well.