## 

## Image Pulling Utilizing Google Street View Static API

For this aspect of the project, we modified and expanded upon the previous team’s python script for pulling Google Street Images. In comparison to the previous version, this script is now:

* Processing multiple GPX files
* Calculating the change in heading (direction) of the data points supplied from the GPX file. This allows for pulling the desired 2 angles, or the left and right side street views.
* Updated for Python 3

**Dependencies:**

* **Python 3.x**
* **Generate GPX files**
* **Generate API Key with a Google Account**

**Instructions:**

**Step 1:**

Clone repository from: <https://github.com/stoicSolutions/cis490_2020_project.git>

**Step 2:**

Open the File: cis490\_2020\_project/Scripts/**street2.1.py**

**Step 3:**

On line 26, set a location you want the images saved to.

**Step 4:**

On line 31, you will need to paste your Google Street View Static API key.



**Step 5:**

On line 36, set the correct location of your stored GPX files



**Step 6:**

Run the script in terminal by typing, python street2.1.py

**Step 7:**

After the script is complete, the pulled images can now be viewed in the appropriate folder.

**Note**: The image file naming convention will be as follows:

|  |
| --- |
| file\_name1 = address + "\_A1"+".jpg"#A1 = angle one which is right side of street |

|  |
| --- |
| file\_name2 = address + "\_A2"+".jpg"#A2 = angle two which is the left side of street |

where “address” equals the concatenated *latitude & longitude* for a given data point*.*

**END**