

WhatsUp PGH ReadMe

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Hello and thank you for using our application. In addition to the base installations that come installed with Anaconda and many other IDEs, please ensure that you have the following packages installed: geopandas, Descartes, beautifulsoup4, geopy, lxml, Tweepy, and wordcloud. Depending on the edition you have of Anaconda or the python installation you have, you may already have some of these libraries installed. However, if you do not, you may need to install them prior to running the project.

Since geopandas can conflict with many dependency settings in Anaconda and complicate the installation process, it may be advisable to create a conda environment if you intend to utilize Anaconda to run the program. The steps below demonstrate how you can create and properly update an environment to be compatible with this program.

- Please open the Conda Prompt Terminal
 - Search “Anaconda Prompt (anaconda3)” from the start menu
- Please create a new environment in your Conda Prompt
 - `conda create --name geoenv`
 - confirm with “y”
- Activate the new environment
 - `conda activate geoenv`
- Confirm that the new environment is selected
 - (“new environment”) not (“base”)
- Install the following packages with conda
 - `conda install geopandas`
 - `conda install descartes`
 - `conda install beautifulsoup4`
- Install the following packages with pip
 - `pip install geopy`
 - `pip install lxml`
 - `pip install Tweepy`
 - `pip install wordcloud`

Once your environment is ready, you can proceed with operating the program. Within the folder A1_Group8_FinalProject, you should be able to find the following files:

1. all_event_neighbor_final.csv
2. hood_event_scrape_module.py
3. multiuser_tweets_arc.csv

4. newstopwordlist.txt
5. pgh_neighbor_merge_final.csv
6. tweepycreds.csv
7. twittermask_bwnew.png
8. TwitterScraping.py
9. WhatsUp_main_gui.py

Running the Program

Once you have made sure that you have the appropriate set of files, you can run the program using the following steps.

1. Open WhatsUp_main_gui.py in your IDE
2. Run WhatsUp_main_gui.py
3. Select whether you want to live scrape the data (15-20 minutes depending on the amount of events) or access archived records of the data on the main screen.



4. Once the next screen has loaded, you can freely navigate among the events, neighborhood, and Twitter tabs.
5. On the events tab, clicking on the see more info button allows you to open another window, which will contain additional information scraped about that event as well as information on the neighborhood the event is in.

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Events Neighborhoods Twitter

Check out these Pittsburgh events!

Haunted Pittsburgh Walking Ghost Tour

Date: 10/7/2
Time: 7:00 pm - 9:00 pm
Neighborhood: Central Business District

Click for more info!

Disney's Newsies

Date: 10/8/2
Neighborhood: Central Business District

Click for more info!

\$uicideboy\$ at Stage AE

6. On the neighborhoods tab, clicking on the name of a neighborhood will open a window containing information about that neighborhood.

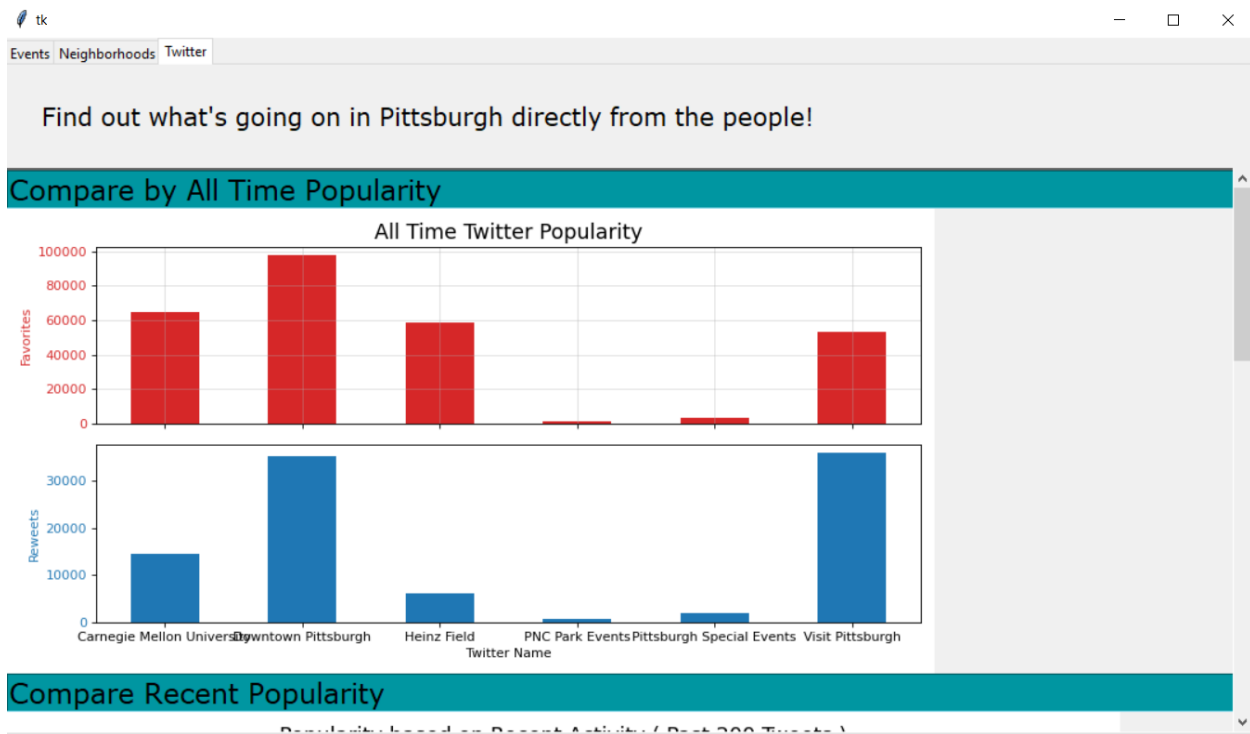
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Events Neighborhoods Twitter

Explore Pittsburgh Neighborhoods!

Allegheny Center	Allegheny West	Allentown	Arlington	Arlington Heights	Banksville
Bedford Dwellings	Beechview	Beltzhoover	Bloomfield	Bluff	Bon Air
Brighton Heights	Brookline	California-Kirkbride	Carrick	Central Business District	Central Lawrenceville
Central Northside	Central Oakland	Chartiers City	Chateau	Crafton Heights	Crawford-Roberts
Duquesne Heights	East Allegheny	East Carnegie	East Hills	East Liberty	Elliott
Esplen	Fairywood	Fineview	Friendship	Garfield	Glen Hazel
Greenfield	Hays	Hazelwood	Highland Park	Homewood North	Homewood South
Homewood West	Knoxville	Larimer	Lincoln Place	Lincoln-Lemington-Belmar	Lower Lawrenceville
Manchester	Marshall-Shadeland	Middle Hill	Morningside	Mount Washington	Mt. Oliver
New Homestead	North Oakland	North Shore	Northview Heights	Oakwood	Overbrook
Perry North	Perry South	Point Breeze	Point Breeze North	Polish Hill	Regent Square
Ridgemont	Shadyside	Sheraden	South Oakland	South Shore	South Side Flats
South Side Slopes	Spring Garden	Spring Hill-City View	Squirrel Hill North	Squirrel Hill South	St. Clair
Stanton Heights	Strip District	Summer Hill	Swisshelm Park	Terrace Village	Troy Hill
Upper Hill	Upper Lawrenceville	West End	West Oakland	Westwood	Windgap

7. The twitter tab shows you recently scraped information from several popular twitter accounts that discuss Pittsburgh events.



For more information on how to operate the program, watch this tutorial:
<https://youtu.be/X2omM8U2rwA>