

GISing After Graduation

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Evolution Maps

Building a Real-time Tweets Map



FROM A STUDENT TO AN ALUMNUS

After graduation, I left the lab environment and their well-settled GIS software. Would that stop my love for GIS? Never! There are tons of GIS equipments to explore. Today, I'm going to present a demo application for your reference.



WEB-GIS

We rely on website

- Website can be anywhere with internet.
- The only tool we need is a light size editor.
- We can test locally and upload to public.
- Providing GIS service at no cost.



GIS-USER

- Data -> Server | Capture
- Server -> Portal | Pass
- Portal -> Express | Map

Several Considerations:

- How to get data?
- How to store data?
- How to pass data?
- How to map data?

MY FAVORITE PLATFORMS

Database

CartoDB

Free
Unlimited time

SIGN UP NOW

Unlimited datasets

Up to 50 MB of data

4 layers

Private datasets

Private maps

Removable brand

Teams


GIS
Equipment

Mapbox



Base Maps

Leaflet



WHAT CAN I DO?



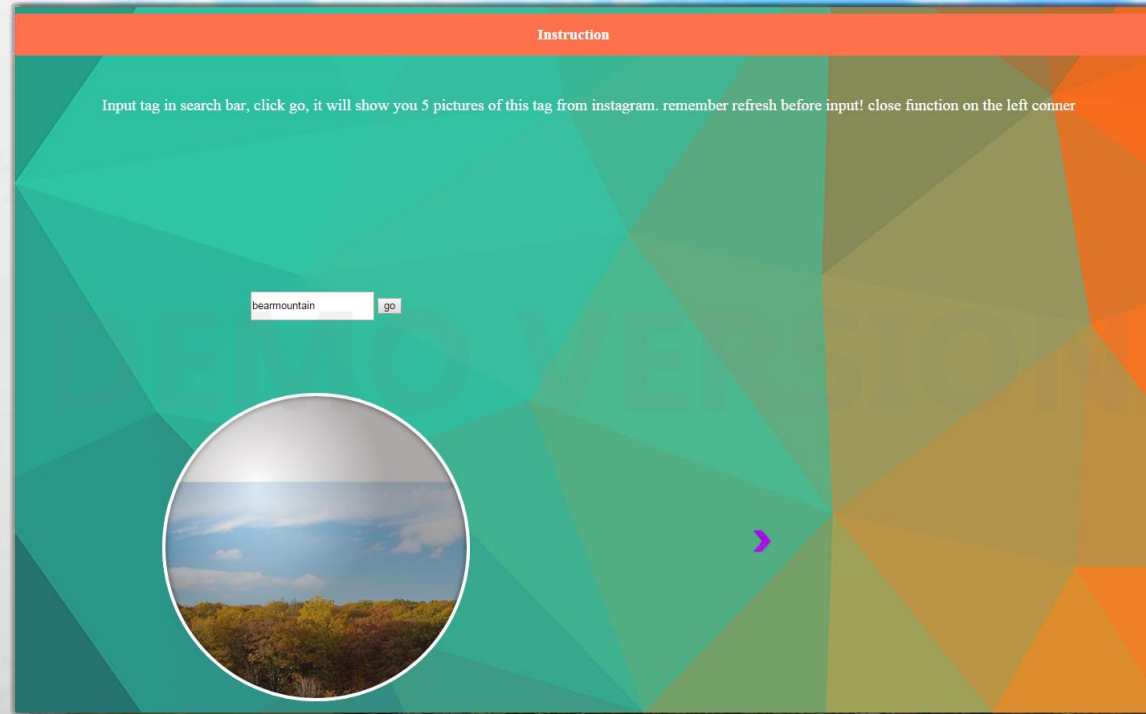
- With 'Tweepy' and the network, my computer can get real-time tweets.
- In order to put it online, I need a server to run my python program, then I resorted to Flask distributed on Heroku.
- Finally, I can get the results back to my chrome, and show them on a map.

The screenshot shows the GISMagic website interface. At the top, there are navigation links for 'Weather', 'Map', and 'About'. Below the navigation bar, there are two input fields containing the coordinates '40.733589699999996' and '-73.888634799999999'. A text box displays the current location information: 'You are located at: Latitude: 40.733589699999996, Longitude: -73.88863479999999, City for interest: NY 11378'. Below this, it says 'Currently, I get 84 tweets near me!'. The main area features a Google Map of New York City with numerous red location pins. A sidebar on the left contains a large 'DE' watermark and a list of instructions: (1) Get your current location and the city name. (2) Use the city name as keyword, search the twitter messages around your current location. (3) Understand them, analyze them and map them. Eventually you can know people like this city or not. The bottom of the page shows a detailed street map of the New York City area with labels for various neighborhoods like Paterson, Yonkers, and Edison.

WHAT ELSE CAN I DO?

Bear Mountain

I want to more red, the more the better!



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On this Wednesday, one of my friends wanted to take a video about the fall leaves in Bear Mountain. However, he was not sure whether the leaves there were red enough.

Now since we have GIS, we can make it simple by just searching a flicker or Instagram picture on that day with the keyword "bear mountain" or mountain's location.

THANK YOU!

If you love GIS, just keep going to explore!