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Lab Assignment 4

GUS 8068

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**Introduction**

Utilizing the tutorials provided and the guidance provided during the lab work time the task of this lab was to create an Instagram overlay in a Leaflet Map, kind of like [www.whatsthere.co/](http://www.whatsthere.co/) but with a nicer basemap utilizing the accumulated JavaScripting skills gained so far in the course.. In this instance I decided to apply the Instagram feed centered near the peak of Clouds Rest mountain which overlooks the famous Half-Dome in Yosemite National Park.

**Methods**

Per the instructions and tutorials the ideal method would have followed the prescripted path in the lab instructions, but as you are aware, there was an Instagram roadblock surrounding the permission rights available to the struggling student developer. I placed a warning alert and salutation to the website viewer informing the Prof. that his access-token which was provided in class was being pirated for this project- but if the access token should fail I placed a couple of photos from my recent hike up the mountain imbedded in a geoJSON which also marks trail. The linestring denoting the trail was downloaded from a random website KML that someone was kind enough to make and run through ogre.adc4gis.com to convert it to the correct format. With some personalization the basic Leaflet.Instagram and reqwest format provided in class produced a satisfying map that completed all the tasks enumerated in the lab assignment.

**Results**

As you can see from the completed map the quantity of the photos posted via Instagram are a bit limited this time of year due to the likelihood of snow blocking the Tioga pass road to access the trailhead. Regardless of the number of images uploaded it is almost impossible to see a bad photo taken at this location, and as previously noted, if there is no Instagram images available I added a few images of my own.

**Conclusion**

Using the maps.stamen.com terrain map was an ideal choice as it displays the rugged topography of the area. I can imagine that adding all the available trails in the area as selectable layers would improve the usefulness of the map as would added amenities like info about nearby camping areas, parking and restrooms. Inserting all of these features on a mobile platform would also be great because cell service was surprisingly robust in the park (at least at the top of the mountain). Additionally the geoJSON trail does not quite follow the mapped trail as provided by OSM, I’m not sure if this is the rest of a slightly differing data, differing projections or that the KML file does not include the z axis data and therefore cannot not follow the trial as depicted by the stamen map.

Source:

Trail KML data from: <http://www.yosemitehikes.com/tioga-road/clouds-rest/trail-map.htm>

ogre.adc4gis.com

