

CPS630

LAB 3

Due: March 6th @ 23:00hr.

- Create a web application where user can drop a text file. The text file contains geolocation information (latitudes and longitudes set/list)(example: 43.65748683, -79.37976122).
- Get user current position and display on a map in the same page: may use any map api for this purpose.
- Using web worker calculate the distance, in kilometer, between the current location (cannot be hardcoded, geolocation api) and coordinate inside the text file with the 'haversine formula'.
 - default current location is the one acquires using api
- Provide an interface for user to set Current any location for comparison.
 - current location may be chosen by user selection on map.
- Reverse geocoding: get human readable information such as name of street, city and country for each set of latitude and long.
- Programmatically display, with good styling, the information in a on your page inside a previously empty <section>.
 - All lab requirements are to be done within one page that is viewable on any platform via a modern browser.

TA will have his own test file to evaluate your work.

Submit one "zip" file for your lab.

Resouces:

https://en.wikipedia.org/wiki/Haversine_formula

Great open Map api:

<http://wiki.openstreetmap.org/wiki/Nominatim>