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Neer Beer: Brewery Finder

# Elevator

For my final project, I intend to expand on the work of my mini project to be more extensive and useful. I intend to use responsive web design, location services, geocoding, and routing to allow users to explore local establishments and plan trips based on their preferences in beer.

# Abstract

In my previous project, I allowed for users to drag a map marker around to search for beer in different locations. I also included a beer variety filter. While the movable marker based search technique was to me novel and interesting to explore, it was not intuitive or easy to use. To improve this, I intend to use the geographical center of the map to control the search and derive this from geolocation data if possible. The API requires both coordinates and search radius to provide search data, so I intend to use the zoom level to determine the search radius. To make the search more useful, I also intend to color code the results based on whether the establishment is open.

If I have time, I would like to add geocoding, and routing to allow users to also use the page to plan trips. I hope to use geocoding to allow users to enter in an address as an alternative to using their browser gelocation info. Afterwards routing would be used to provide the directions and a time estimate to drive/walk to the establishment. I also would like to include a feature where the user can enter in the beer preferences for several different people at the same time and rank and color code possible establishments based on the number of people in the party whose beer preferences would satisfied by each location.

# Technology

* Leaflet
* Leaflet Awesome markers plugin
* Leaflet routing machine plugin
* Leaflet.Locate Plugin?
* Leaflet Control Compass plugin?
* JQuery
* Bootstrap

# Data Sources

BreweryDB API, Google/Bing geocoding API

# Challenges

* Inexperience with routing and geolocation plugins
* Fitting all the filtering controls onto limited mobile screen real estate
* Filtering or caching data to ensure reliable responsiveness
* Have never tried to access map center and zoom level before