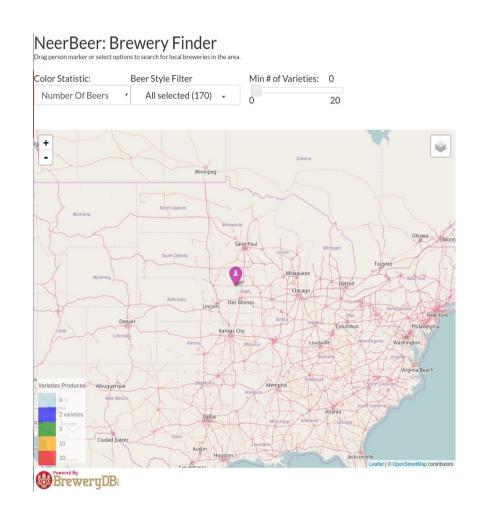
NearBeer

Development Log

-Steven Hadley

Beginning

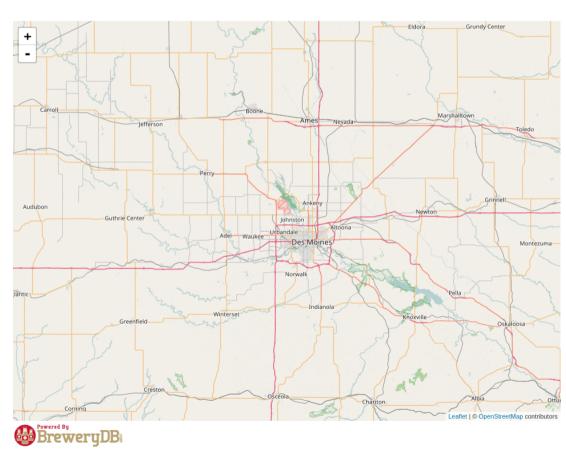
Goal: Modify Mini
 Project to make
 more useful and
 practical as web app



Basics

- Search based on map center and zoom level
- Use button to trigger search instead of marker move
- Allow for multiple users to select beer styles





Step 1: Search Based on Center and Zoom Level

```
function refreshBreweries()
{
   var bounds = Map.getBounds()
   var center = Map.getCenter();
   var rad = Math.round(Math.abs(bounds._southWest.lng - bounds._northEast.lng) * 55);
   if (rad > 100)
   {
      rad = 100;
   }
}
```

- Brewery api requires centroid and radius
- Use leaflet to populate variables center and bounds
- Brewery api has max raidus of 100 miles

Step 2: Populate Person Controls

- Increment person number
- Use to generate unique DOM id
- Add to div inline-block to allow for responsive design

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Step 3: Hook up Person Controls

1. Get selected styles from comboboxes

```
function getSelectedStyles()
{
   var optDict = {};
   for(var i = 1; i < personNumber; i++)
   {
      var selector = '#typeSelect'+ i +' option:selected';
      var selectedOpts = $(selector);
      var optList = [];
      for(var j =0; j < selectedOpts.length; j++)
      {
            optList.push(selectedOpts[j].value);
      }
      var key = $('#name'+i).val();
      optDict[key] = optList;
   }
   return optDict;
}</pre>
```

2. Build dictionary of styleids base on user name

```
function getBeerSelection(styles, beers)
{
    var selectDict = {}
    for (var p in styles)
    {
        selectDict[p] = [];
    }

    for (var b in beers)
    {
        var s = beers[b].styleId;
        if(s != null)
        {
            var personStyle = styles[p];
            var result = $.inArray(s.toString(), personStyle);
            if(result > -1)
            {
                  selectDict[p].push(beers[b].name);
            }
        }
     }
    return selectDict;
}
```

4. Color markers based on users matched by each brewery

3. Count matches with dictionary for each brewery

```
function getScore(selections)
    var score = 0;
    for (var p in selections)
         if(selections[p].length > 0)
              score++;
    return score;
        if(personNumber == 3)
              return darkIcon;
              return lightIcon;
       else if(personNumber == 4)
               return darkIcon;
               return mediumIcon;
               return lightIcon;
            if (score == personNumber - 1)
              return darkIcon;
           else if(score == personNumber -2)
```

Step 4: Geolocation

- Followed example from class
- Gotcha was class code only works in https://
- Github pages SSL by default, ElasticBeanstalk not so much
- Went ahead and registered, domain name, and filed with certificate authority
- Cost money (\$30), but much easier to share with friends
- Still less than I would have spent in textbooks in most classes

```
function updatePersonMarker(coord)
{
    personMarker.setLatLng(coord);
    Map.panTo(coord);
}

function showPosition(pos)
{
    var coord = new L.LatLng(pos.coords.latitude, pos.coords.longitude)
    userLocation = coord;
    updatePersonMarker(coord);
};
```



Step 5: Geocoding

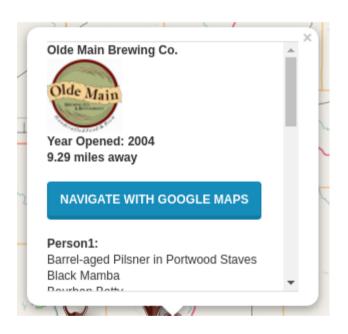
- Wanted users to be able to update their address
- Geolocation doesn't always work
- Sometimes you are searching for a trip
- Wanted to use user location for calcuating brewery distance and providing directions



Step 6: Distance and Directions

- In proposal, I had planned on using Leaflet Routing machine.
- Decided link to google maps was more useful for mobile use cases
- Decided to use Turf.js instead to provide distance measurements to help decide which location to visit
- I seem to have found a bug in Turf.js where distances are occasionally off by factor of ten. It seems the turf developers are already aware and are working on a fix:

https://github.com/Turfjs/turf/issues/264



Final Product

