Team super-duper-happiness

Sarah Yoon, Jerry Chang, Jordan Yaqoob, Nalanda Sharadjaya

Overview/Why We Care

It is important to base policy decisions on concrete data rather than irrational fears. Our website aims to combat prejudice/xenophobia regarding immigration to the United States by presenting immigration data in an intuitive way, showing that people's fear of immigrants of certain origins/backgrounds is, perhaps, entirely baseless.

Description

Our site will analyze immigration data from 2005 to 2014, with statistics on the immigrants from various countries entering the United States. For each origin country, we will focus on apprehended vs. naturalized immigrants; the data will be presented as a graph, in which the y-axis represents the percentage of a given immigrant group that is apprehended, and the x-axis represents the percentage that becomes naturalized. Each country will have its own bubble plotted on this graph, with the size of the bubble proportional to its total number of immigrants entering the US. There will be a slider so that the user can see how the data changes over time.
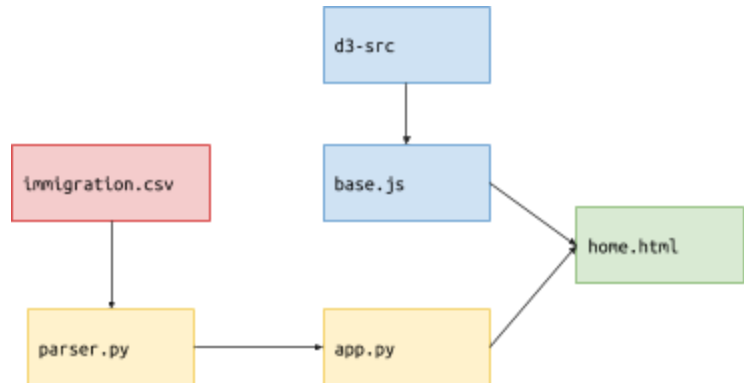
Potential Features

The user will be able to mouseover bubbles to see the country's name and its stats. The bubbles will be color-coded by region/continent, but most will be translucent. By default, the countries in Trump's travel ban will be highlighted (opaque), but there will also be a search bar where the user can look up countries to highlight instead/in addition, so that the user can customize which countries they would like to compare. In addition to the slider, the user will be able to press a 'play' button and watch the animated graph.

Components

File Structure

```
super-duper-happiness/
    org/
        devlog.txt
        plan.jpg
        DesignDoc.pdf
    data/
        immigration.csv
    static/
        base.js
        d3-src/
            <d3 files>
    templates/
        home.html
    utils/
        parser.py
    app.py
```

Component Map

app.py
Parsed data from utils/parser.py passed on to static/base.js. '/' route displays the data visualization with hom.

utils/parser.py
Reads in and parses the data from data/immigration.csv, spitting out a json with relevant information.

static/base.js
Given json, functions for plotting and animating the data, highlighting bubbles, hovering over bubbles, etc..

data/immigration.csv
Data pulled from CORGIS on various countries and the numbers of immigrants who are apprehended, granted legal residence/refugee status, naturalized, etc..

Schedule/Division of Labor

Task	Due	Contributor
Flask app and template done, as well as parser.py (Should return json with only relevant information, (apprehended, naturalized, total), as well as region/continent).	Thursday (3/30) Morning	Nala
base.js started, with basic bubble plot down for inputted year (color-coded, but no mouseover/custom highlight/slider).	Friday (3/31) Morning	Sarah
Add search bar, whatever buttons necessary for resetting highlighting/selecting country to highlight.	Saturday (4/1) Afternoon	Nala
Build upon base.js, adding mouseover functionality, ability to highlight selected countries.	Saturday (4/1) Night	Jordan
Finish base.js, adding animation/slider functionality.	Sunday (4/2) Night	Jerry