NewsBox

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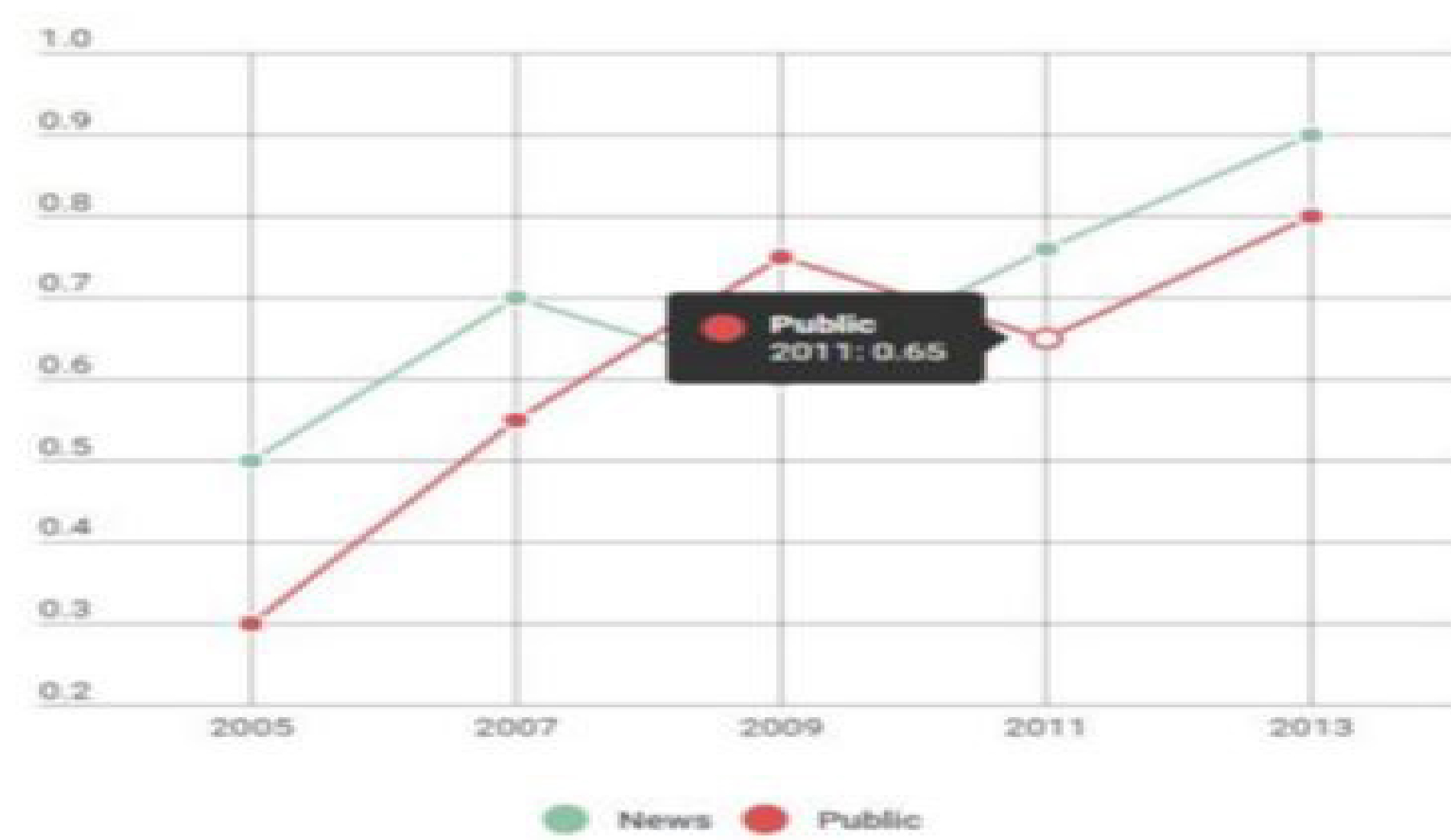Olin College of Engineering | Spring 2016 | Software Design

Evolution of NewsBox

Figure 1: Mock up of original idea
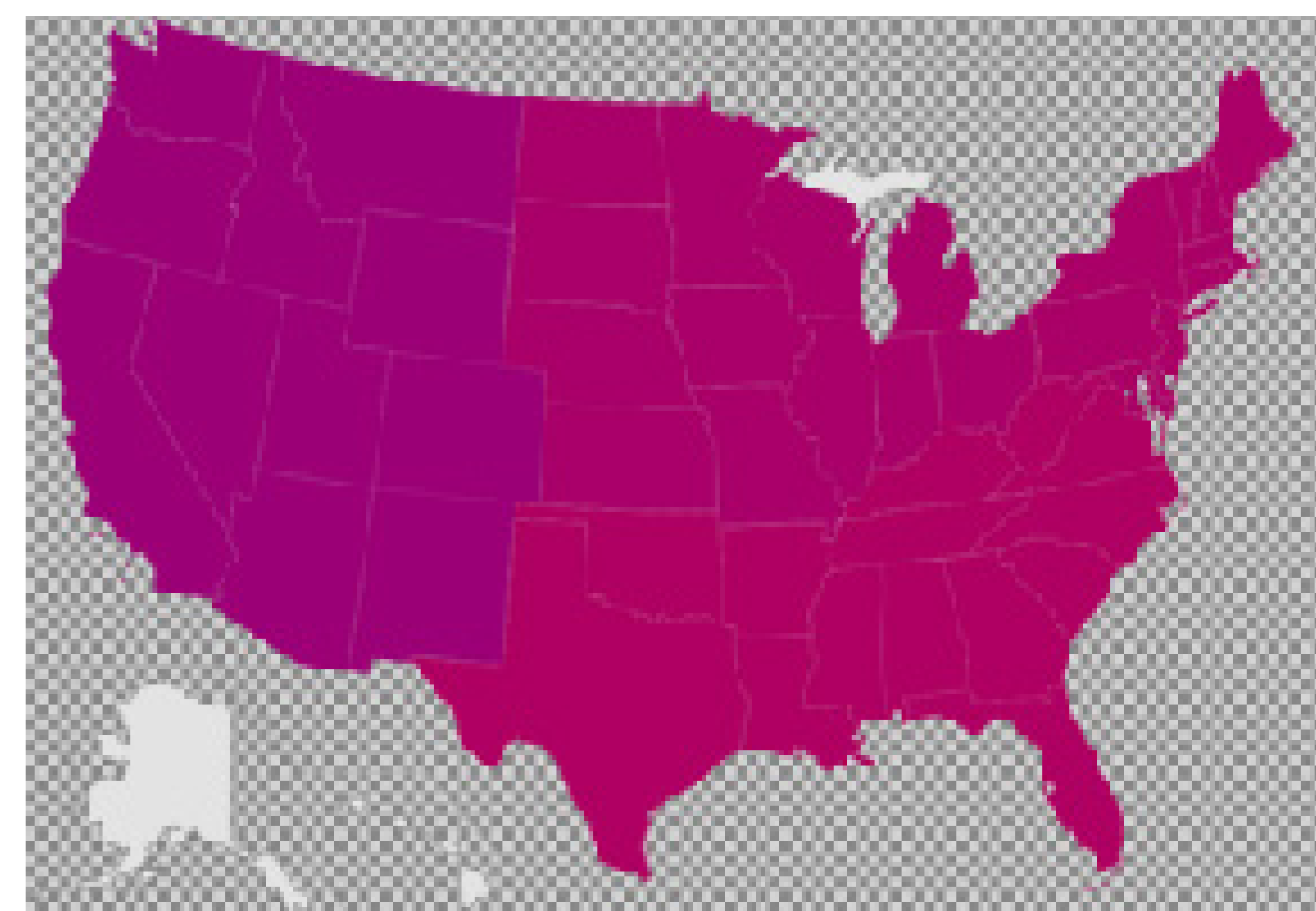

Figure 2: Blank map we're working with
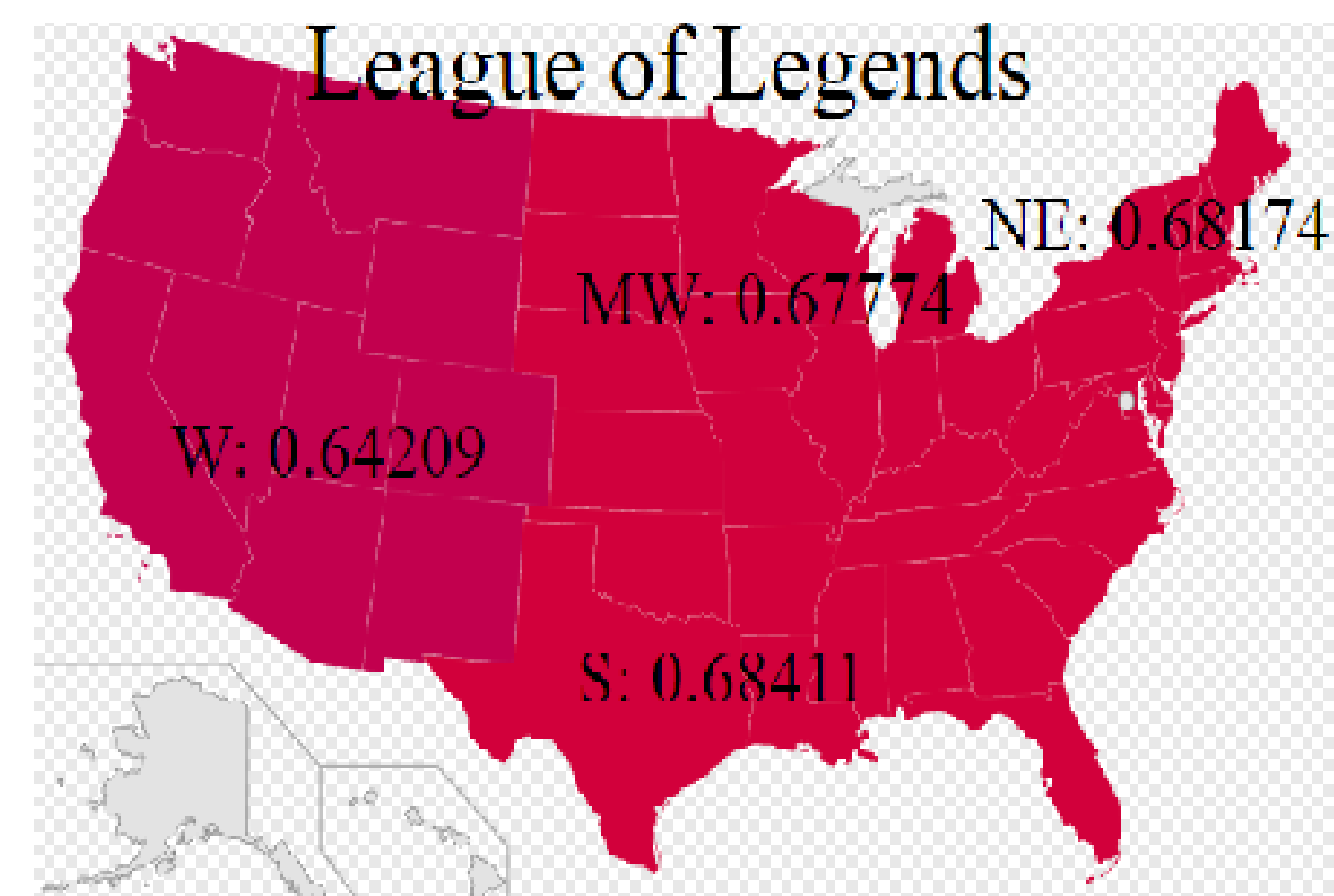

Figure 3: First iteration of choropleth map

League of Legends

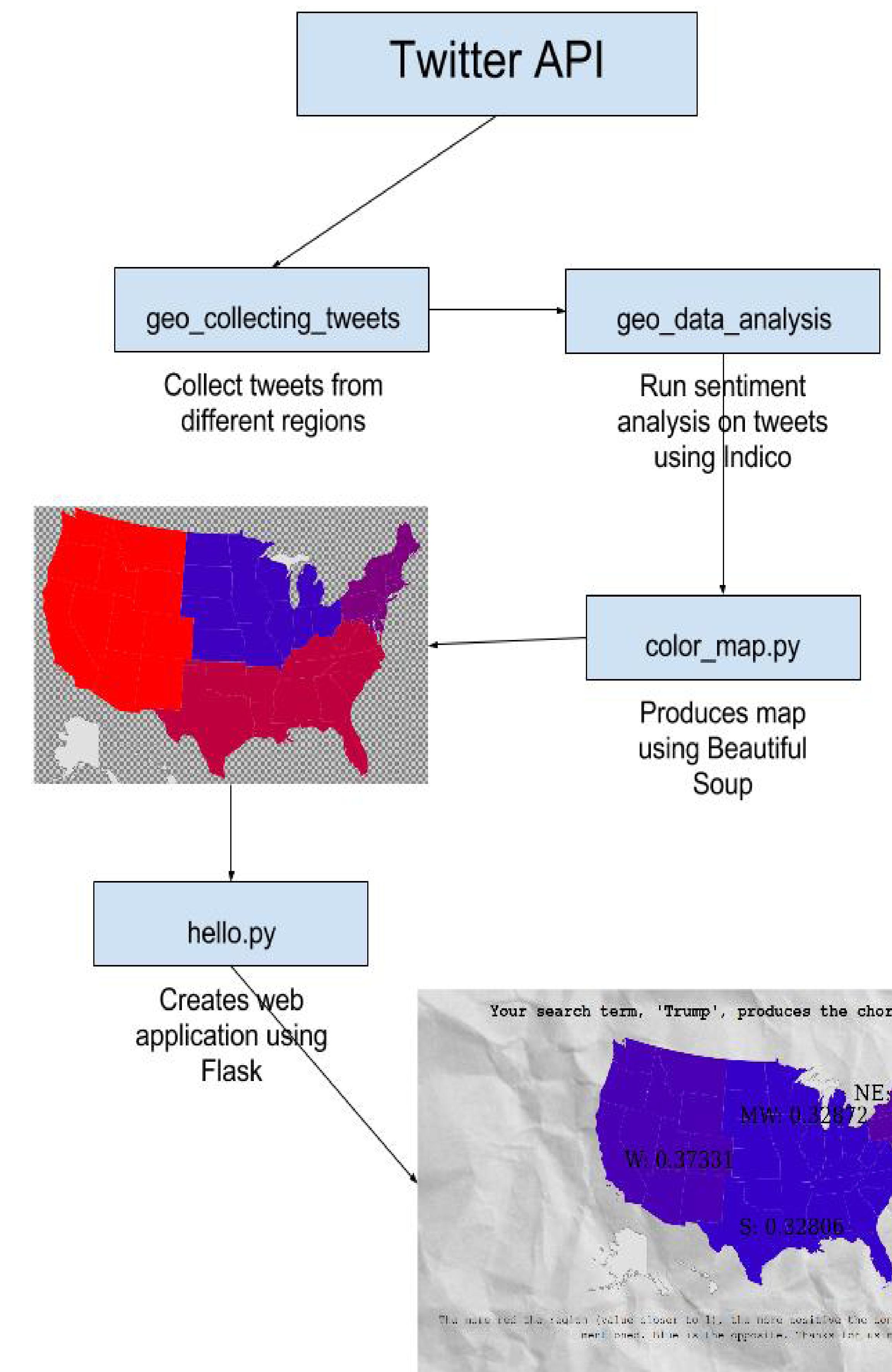NE: 0.68174
MW: 0.67774
W: 0.64209
S: 0.68411

Figure 4: Improved map

Big Idea

The Big Idea
Represent the polarity of different regions in the US towards a given topic in a visually compelling way.

Your search term, 'Trump', produces the choropleth map below.

NE: 0.405
MW: 0.32872
W: 0.37331
S: 0.32806

The more red the region (value closer to 1), the more positive the context in which the search term is mentioned. Blue is the opposite. Thanks for using NewsBox!

Implementation

Twitter API

geo_collecting_tweets
Collect tweets from different regions

geo_data_analysis
Run sentiment analysis on tweets using Indico

color_map.py
Produces map using Beautiful Soup

hello.py
Creates web application using Flask

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Credits

Twitter's API wrapper for Python (Python-Twitter) fetches the tweets

Indico's API analyzes the sentiment of the tweets

Beautiful Soup edits the SVG file

Flask creates the web application

Flask
web development, one drop at a time