Project 2: What’s Eating You

Reported Parasitic Infections in the United States

Melinda Wiley, Patricia Escalante, Yanjun Zhou

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Proposal

Project 2 will utilize Python Flask powered RESTful API, HTML/CSS, JS, one (1) database (MySQL or SQLite) >=100 records, with at least three (3) user-driver interactions. Data munging and data visualization utilizing CDC provided datasets and parasite information.

Web scrape the index from https://www.cdc.gov/parasites/az/index.html#s to pull the list of parasites. Working this aspect in jupyter notebook with BeautifulSoup. Utilize JSON APIs provided by CDC from https://data.cdc.gov focusing on the National Notifiable Diseases Surveillance System (NNDSS) Table II using the list from the Alphabetical Index of Parasitic Diseases. Due to the number of parasites listed and the amount of data provided by the CDC, the dataset may be cut down from 91 over 3 to 5 years to a smaller dataset. Referencing ‘The enemy within: 10 human parasites’ to define top parasites.

Initial layout proposal will include US Mapping to define infections through the years utilizing Leaflet. Chart will show infection cases over the years bar/bubble/line chart with some rad transitions. The 1 JS library not previously covered will be TBD.

Resources, so far: <https://www.cdc.gov/parasites/az/index.html#s>, <https://data.cdc.gov>, https://www.newscientist.com/gallery/mg20327161300-enemy-within-human-parasites/

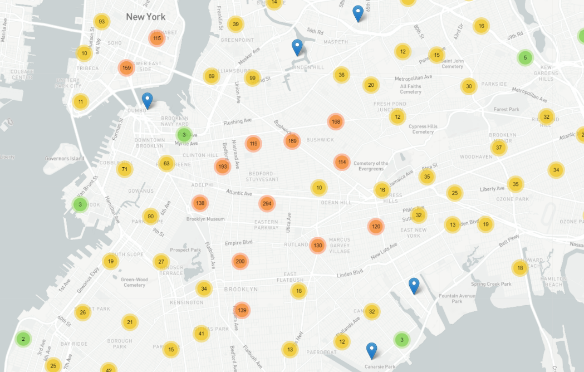
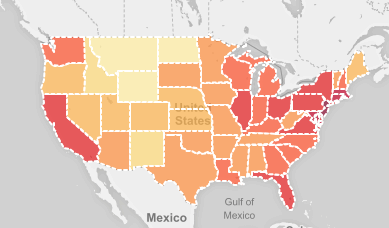
Topic: Reported Parasitic Infections in the United States

Dataset: NNDSS

Git repo: <https://github.com/Yanjun7/Parasites>

sketch of the design:

Different markers with layers / Choropleth js leaflet

D3 charting with transitions and interactions

