Topic: Visualizing Recipe Data

Data Set: <https://api.edamam.com/search?q=&app_id=d6f4ebaf&app>

Inspiration:

Resources:

Caloric Intake: <https://www.accessdata.fda.gov/scripts/InteractiveNutritionFactsLabel/factsheets/Whats_On_The_Nutrition_Facts_Label.pdf>

Our project will focus on utilizing recipe data to help the user visualize and understand how each ingredient contributes to their daily nutrition goals as well as help users to explore ways in which they can modify a recipe to meet their specific needs.

Questions this data visualization will answer:

* Which recipes contain my required nutrient consumption?
* Are there recipes that are vegan/gluten friendly?
* Which ingredients contribute materials that I would consider unhealthy or very healthy?

**Goal** to combine data from known ingredients and their nutrition information with recipes that are dynamically searched by the user.

1. Your visualization must include a Python Flask–powered RESTful API, HTML/CSS, JavaScript, and at least one database (SQL, MongoDB, SQLite, etc.).
   1. Database type = Mongo
      1. Nutrition information for ingredients by weight
   2. HTML type will be sourced in the GitHub repository
   3. API = Freeware to pull recipe lists and information
2. Your project should fall into one of the below four tracks:
   1. A custom “creative” D3.js project (i.e., a nonstandard graph or chart)
   2. A combination of web scraping and Leaflet or Plotly
   3. A dashboard page with multiple charts that update from the same data
   4. A “thick” server that performs multiple manipulations on data in a database prior to visualization (must be approved)
3. Your project should include at least one JS library that we did not cover.
4. Your project must be powered by a data set with at least 100 records.
5. Your project must include some level of user-driven interaction (e.g., menus, dropdowns, textboxes).
6. Your final visualization should ideally include at least three views.