## Visualization of the data from Food.com

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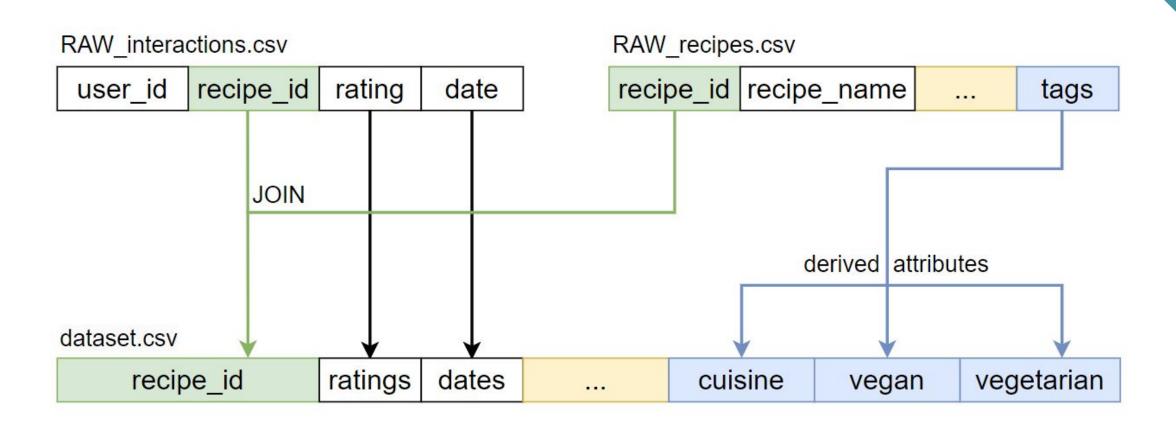
## ORIGINAL DATABASE

- Kaggle dataset
- Scraped data from Food.com
- 180K+ recipes and 700K+ recipe reviews covering 18 years of user interactions and uploads on Food.com
- Data about ingredients, calories, types of cuisines, reviews... of each recipe

## PROJECT DEVELOPMENT

- Dataset preprocessing to obtain a cleaner and more usable database
- Webpage template creation with sub-templates for each visualization
- Flask Server creation to deploy the webpage and manage the data
- Visualizations: ingredient analysis, cuisine stats, popularity analysis, cuisine similarities
- Global selection menu to allow for user interactivity and cuisine filtering

## **PREPROCESSING**



## WEBPAGE AND SELECTION MENU

- Base html file that extends templates for each visualization
- Global selection menu allows the user to dynamically change the plots and filter cuisines
- "Select All" and "Select Continent" options available for user's comfort
- Selected cuisine data is given to the templates through POST method
- Flask Server creation to deploy the webpage templates and manage the loading and sharing of data between them

## **Ingredient Analysis**

- Lots of countries are missing & over 12k "unique" ingredients
- TOP MAP: Most popular butter, garlic, olive oil, tomatoes, onion, soy sauce, sour cream
- TOP MAP: Butter ranges over 5 continents.
- TOP MAP: Hungary is the only one with sour cream.
- BOTTOM MAP: **Scandinavians** rely too much on one ingredient
- HEATMAP: butter, onion, garlic, eggs, olive oil, tomatoes, milk, flour
  - These are the most used ingredients around the world

## **Cuisine Statistics**

The goal is to **explore** and **compare** key distributions of cuisine properties:

- Percentage of plant-based recipes
- Average PDV of nutrients in recipes
- Calorie distribution in each cuisine's recipes

(Clicking reveals additional details, unveiling new statistics)

## **Popularity Analysis**

The cuisines with most recipes:

**Europe:** Italian – 7410 (*total: 17344*)

North-America: American – 31179 (total: 42888)

**Oceanian:** Australia

**Asian**: Japanese

**African**: Moroccan

South African: Brazilian

## How similar are cuisines?

- Butter: mostly used by North American and European cuisines and least in Asian cuisine.
- Olive oil: similarly used by American and Italian
- Parmesan cheese: similarly used by American and Italian cuisines and mostly by Mongolian cuisine.
- Flour: in Europe mostly used by Italy and least by Belgium.
   Rarely used by Cambodian cuisine.
- Sesame oil: almost only used by Asian cuisines and Austria.

# THANK YOU ANY QUESTIONS?