Final project report

This project aims on explore and identify current food trends by analyzing food-related content on Flickr (social media platform).

At the time the user accesses this project they can:

1. get the dataset using the Flickr api

2. clean the obtained dataset to get useful information

3. analyze food popularity trends in different regions based on current trends (latest dataset) and create a word cloud.

4. generate a linkage graph between foods in the current trend (by adding food vocabulary)mmjj to get what foods people tend to talk about together at the moment.

5. Explore the frequency of a specific food across different regions.

**Data source and data cleaning:**

In this project, I first pulled the most recent food-related postings and related comments from the flickr platform via api and secret key (using keyword pulling) and cleaned them using code (washing out /www and other content that could affect the text analysis), storing them in 2 Json files, containing food description and food-related comments.

**Application design：**

In the process of designing this food explorer, I designed 4 different functions for my main code, which are：

1. According to the user's location (which needs to be manually entered by the user), give today's food recommendations based on the talk of the social media platform.

2. To calculate the connection between two foods using a method similar to the Kevin-Bacon counting method (the user can choose the connection between the foods he wants to look up by modifying the keywords).

3. To calculate and plot the connection between different foods using the networkx package and the matplotlib package.

4.

**Memo:**

In the process of realizing my final project, I have some changes to what I mentioned in my initial proposal, one of them is the source of social media content extracted according to the api, at first I was thinking of using data from meta companies and Twitter, but they were late in replying to my Api request, so I used to get faster and more transparent data from the Flickr platform.

I thought the step of generating a graph of relationships between foods was very interesting! Users can see what foods are often put together and talked about.