Data

Data required in this project is mainly collecting from the Foursquare API. https://api.foursquare.com/v2/venues/explore. After getting the list of the foods and their locations, I got the coordinates of Manhattan by geocoding and created a folium map to visualize the data.

	uid	name	Type of Restaurant	address	postalcode	lat	lng
0	54419745498e8a6b5608301b	The Milling Room	American		10024	40.783531	-73.974295
1	4bc38504abf4952123e0c393	Bluestone Lane	Café		10128	40.783757	-73.958526
2	591890f43abcaf1ddca66e85	Ashoka	Indian		10024	40.784842	-73.973253
3	57d21135498ee7584bdc048a	Motorino	Pizza		10024	40.785586	-73.972842
4	49fa2837f964a520cf6d1fe3	Café Sabarsky	Austrian		10028	40.781445	-73.960385

```
In [128]: Manhattan= d["geocode"]["center"]
          Manhattan

  Out[128]: {'lat': 40.78343, 'lng': -73.96625}
```

```
In [129]: from folium import plugins

          map_Manhattan = folium.Map(location=[40.78343, -73.96625], zoom_start=13)

          def add_markers(df):
              for (j, row) in df.iterrows():
                  label = folium.Popup(row["name"], parse_html=True)
                  folium.CircleMarker(
                      [row["lat"], row["lng"]],
                      radius=5,
                      popup=label,
                      color='red',
                      fill=True,
                      fill_color='#3186cc',
                      fill_opacity=0.7,
                      parse_html=False).add_to(map_Manhattan)

          add_markers(df)
          hm_data = df[["lat", "lng"]].to_numpy().tolist()
          map_Manhattan.add_child(plugins.HeatMap(hm_data))

          map_Manhattan
```