

The Battle of Neighborhoods - Part I

August 29, 2019

1 Capstone Project - The Battle of Neighborhoods

1.0.1 Introduction

New York City is the most populous city in the United States, with an estimated 2018 population of over 8 million. The city is also one of the most diversified cities in the US. The city's population in 2010 was 44% white, 25.5% black, 12.7% Asian and 0.7% Native American. Among these different races, Asians is the fastest-growing one between 2000 and 2010. As the term “melting pot” described, approximately 37% of the city's population is foreign born. In New York, none of the single country or region of origin dominates.

The diverse culture leads to diverse food cuisines. In New York, you can find all kinds of authentic foreign restaurants, like French, Italian, Japanese, American, Chinese, etc.

In this project, we will list and visualize all parts of NYC which has great Chinese restaurants. The project can help visitors or newcomers to NYC to find their desired good Chinese restaurants. They can also decide which area of NYC they'd like to stay at for good Chinese food.

1.0.2 Data

The following data are needed for this project:

New York City data that contains list Boroughs, Neighborhoods along with their latitude and longitude.

Data source : https://cocl.us/new_york_dataset

Description : This data set provides the location of various neighborhoods of new york city.

Chinese resturants in each neighborhood of new york city.

Data source : Fousquare API

Description : We will get all venues in each neighborhood and then filter them to get only Chinese restaurants.

GeoSpace data

Data source : <https://data.cityofnewyork.us/City-Government/Borough-Boundaries/tqmj-j8zm>

Description : New york Borough boundaries for better map visulization.