

# Capstone: Battle of the Neighborhoods - Chinese Restaurants

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## 1. Introduction

A small group of restaurateurs are looking to open a Chinese restaurant somewhere in New York City. The city itself has many restaurants of similar genre, and this group of investors would like to understand what areas/neighborhoods would be advantageous to opening and sustaining a successful business. This report explores which neighborhoods and boroughs of New York City have the most and best Chinese restaurants and I will attempt to answer the question “Where should the restaurateurs open a Chinese restaurant?”

### 1.1 Problem

- What is the best area to open a Chinese restaurant in New York City?
- What boroughs and neighborhoods have the most and highest ranked Chinese restaurants?

## 2. Data

- New York City data containing neighborhoods, boroughs, latitudes and longitudes is obtained from: [https://cocl.us/new\\_york\\_dataset](https://cocl.us/new_york_dataset)
- All data related to locations and quality of Chinese restaurants will be obtained from the Foursquare API.
- New York City boundary data was obtained from: <https://data.cityofnewyork.us/City-Government/Borough-Boundaries/tqmj-j8zm>

## 3. Methodology

- Data will be collected from [https://cocl.us/new\\_york\\_dataset](https://cocl.us/new_york_dataset), then cleaned and transformed into a dataframe.
- Foursquare data will be collected to locate all venues then filtered for Chinese restaurants. Metadata like ratings and tips by users will be counted and put into the dataframe.
- Data will get sorted by ranking.
- Data will be visually assessed via Python libraries.