

# Tourist Attractions in New York

## 1. Introduction/Business Problem

Where would be the best location to stay for someone looking to go on holiday to New York, focusing on proximity to tourist attractions. The background is a holiday maker wanting to be able to see as many of the main attractions as possible to get the best value for money from their trip.

## 2. Data

Foursquare location data will be obtained by

- Defining a query to search for tourist attractions in the area
- Getting the relevant part of JSON and transforming this into a pandas data frame
- Filtering and cleaning the data

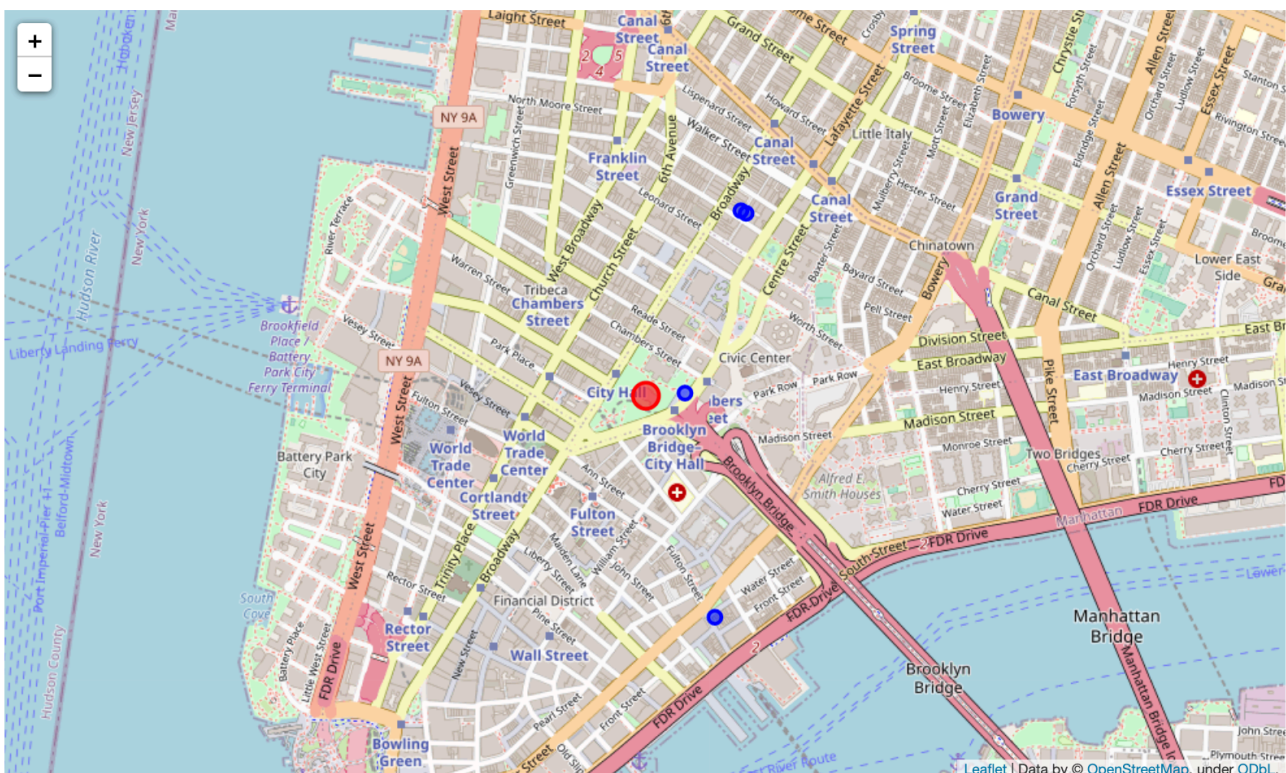
As an example, a GET request will be sent to get the overall rating for an individual tourist attraction. A map will then be generated to visualise the locations of the tourist attractions, which could be referred to choose a place to stay nearby.

## 3. Methodology

The central coordinates of New York are used for reference, and a query for museums within 500m is performed to find tourist attractions in the area. The relevant details and locational data is obtained in order to plot the museums on a map of the city (as displayed in the results section below) and offer a visualisation of their proximity.

## 4. Results

There are 4 museums (blue circle markers) within 500m of the centre of New York (red circle marker). The overall rating request demonstrated for Seaport Museum is 8.2.



## **5. Discussion**

The map illustrates that the museums appear to be equidistant with a couple in close proximity towards Canal Street. If the museums located towards Canal Street were of more interest it might be preferable to find a place to stay nearby. However, as the locations stretch north and south of the centre, it would be recommended to find a place to stay centrally in order to minimise the journey time between museums.

## **6. Conclusion**

The best location for a holiday maker to New York wanting to see as many of the main attractions as possible is the city centre.