

# THE BATTLE OF NEIGHBORHOODS (WEEK 2)

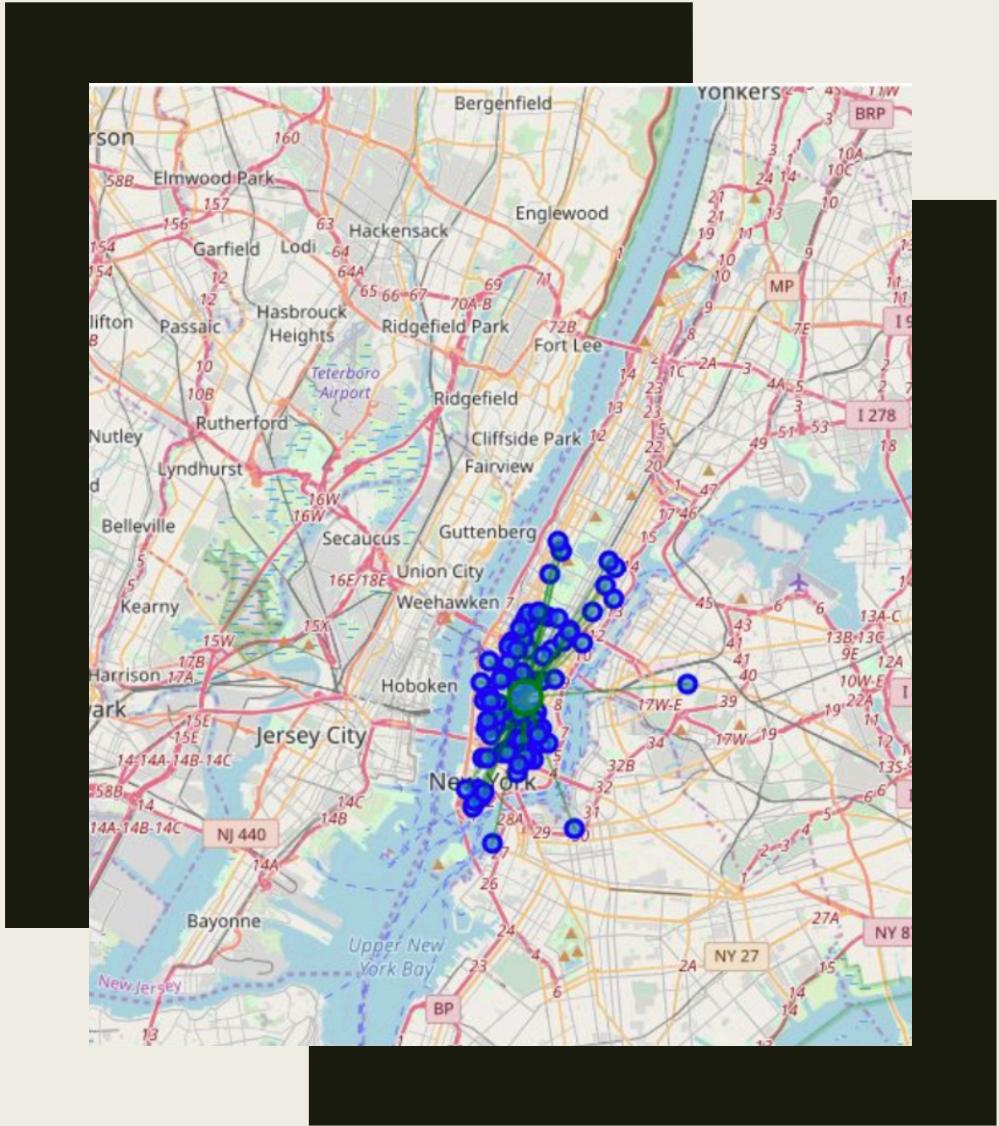
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# Scenario:

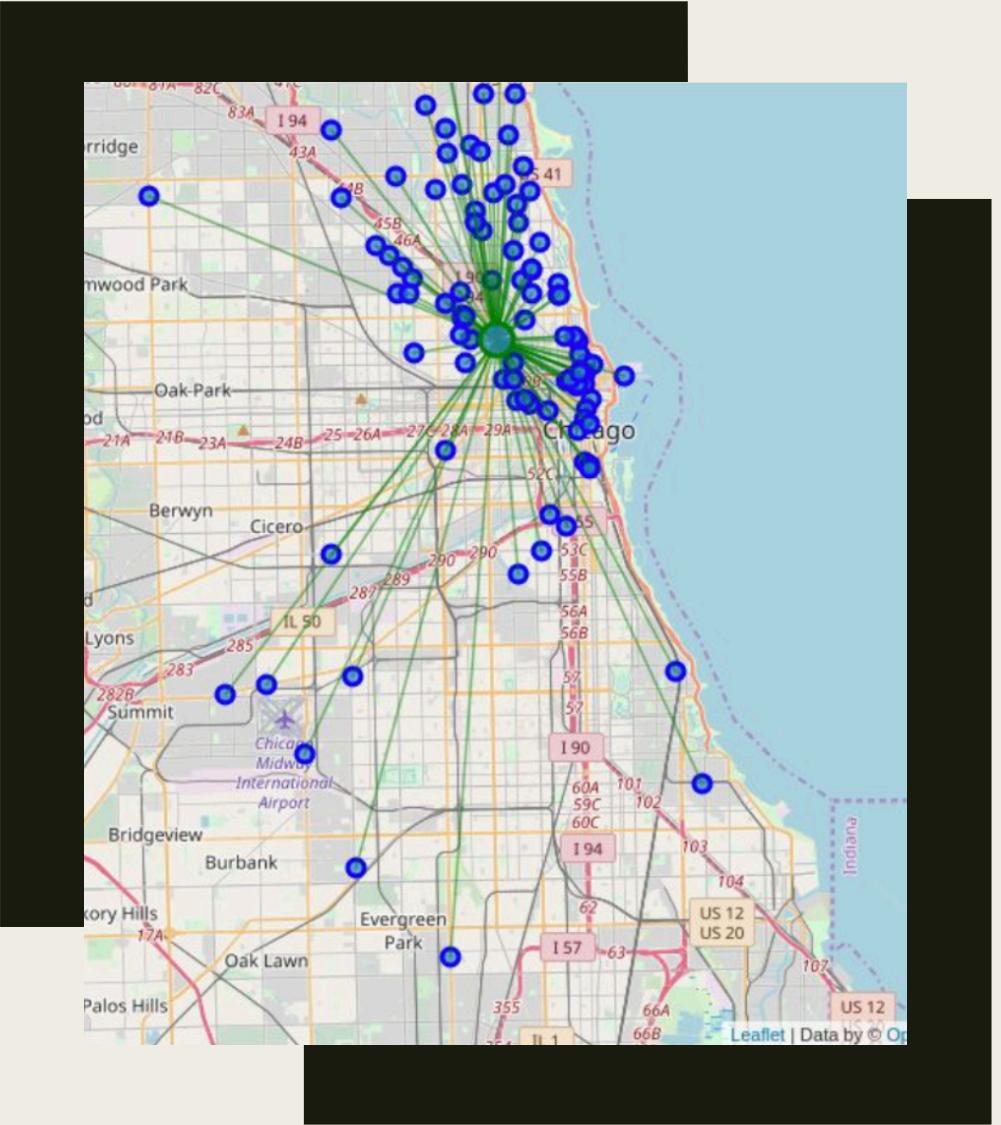
- Let's say you have never been to the US and you want to have only pizza while you are there. You are visiting New York, NY, San Francisco, CA, Jersey City, NJ, Boston, MA and Chicago, IL and you want to find the closest and most highly rates pizzeria near you in each major city. The problem we aim to solve is to analyze the pizzerias' locations in the major US cities and find the best place for our tourist so that they can have a good pizza experience.

# Number of Pizzerias in Each Major City

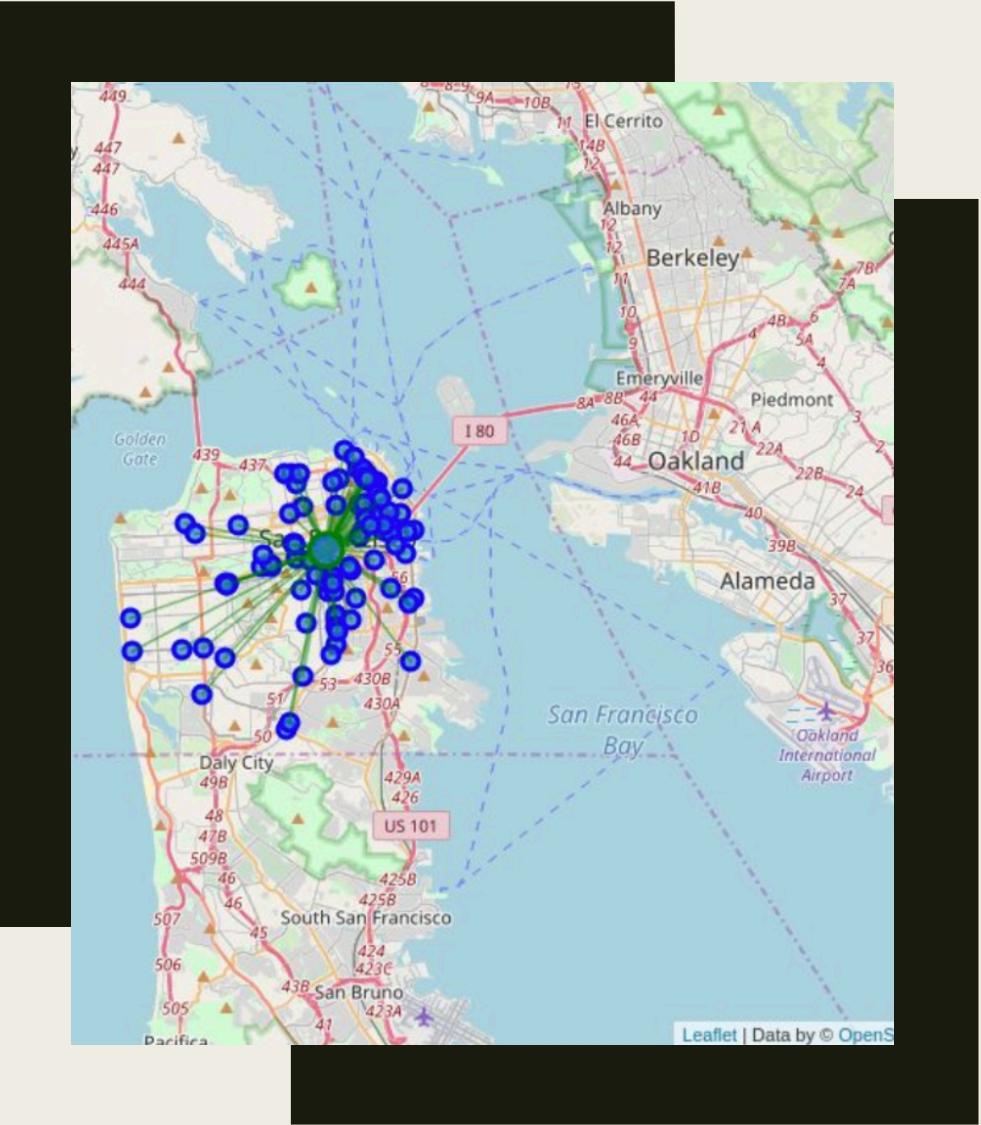
- Total number of pizza places in New York, NY = 283
- Total number of pizza places in Chicago, IL = 217
- Total number of pizza places in San Francisco, CA = 169
- Total number of pizza places in Jersey City, NJ = 126
- Total number of pizza places in Boston, MA = 184



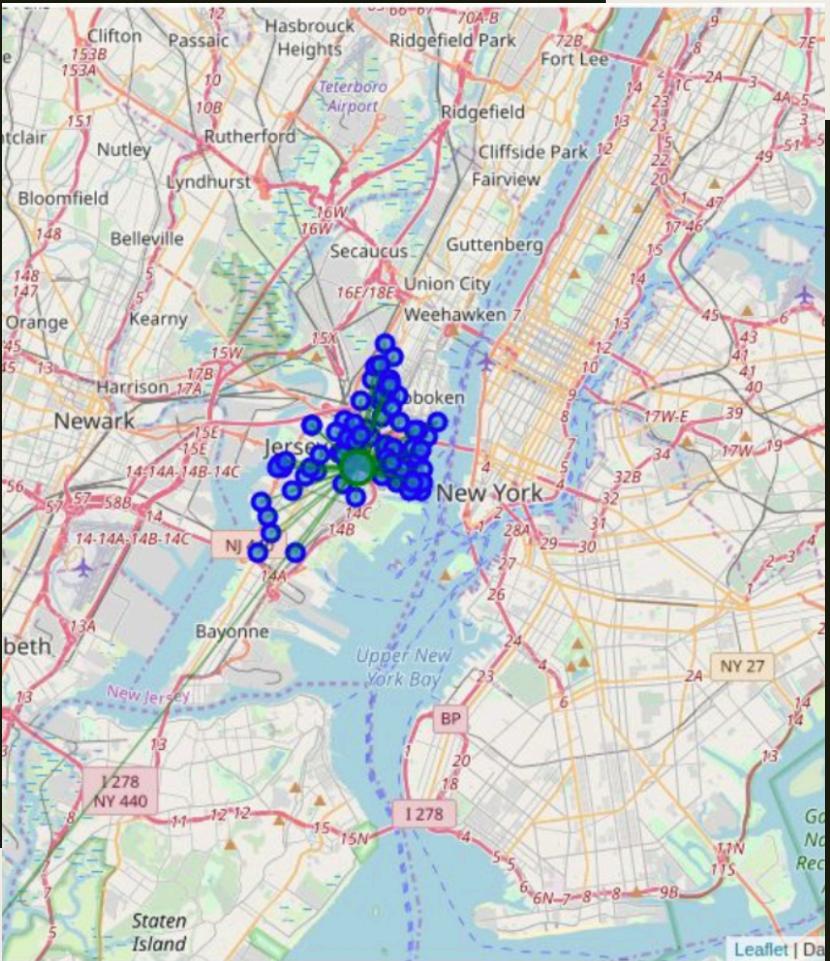
# NEW YORK



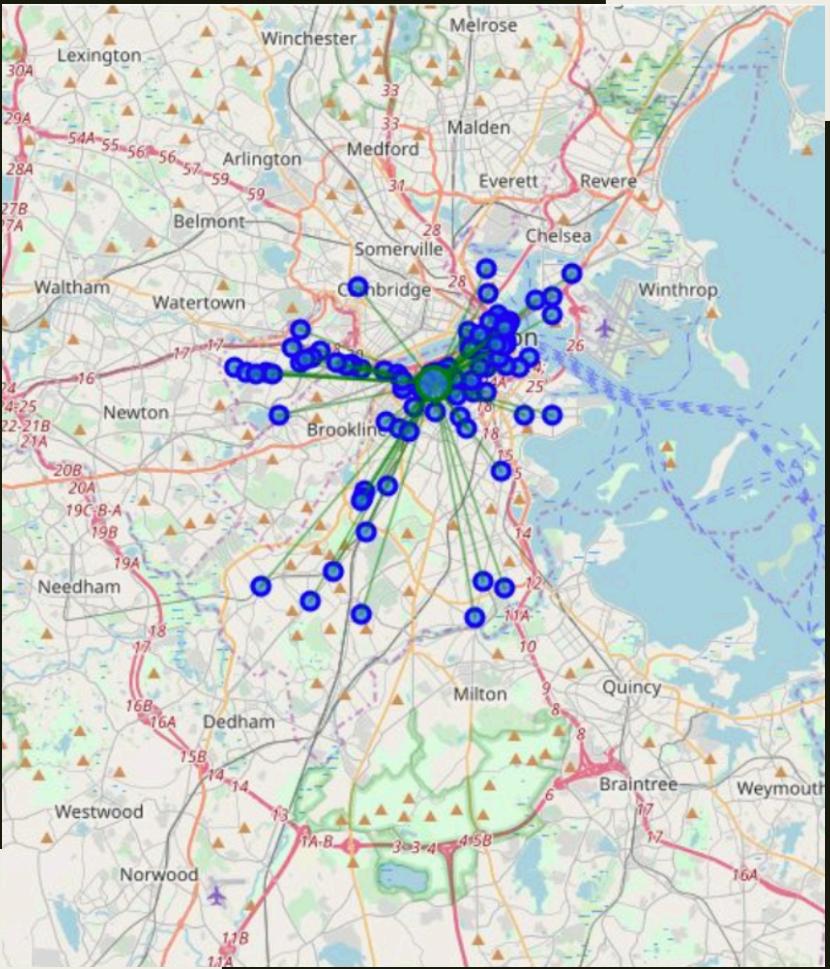
# CHICAGO



# SAN FRANCISCO



# JERSEY CITY



# BOSTON

# Closest Pizzeria in Each Major City

- I calculated the center of all the pizzerias (the green circle in each map) in each city
- Then, I calculated the distance from each pizzeria to the center of all the pizzerias in that city

# Results:

## 1. Jersey City, NJ

- Mean Distance from Mean coordinates:  
0.01947332851201349

## 2. New York, NY

-Mean Distance from Mean coordinates:  
0.02259129951746809

## 3. San Francisco, CA

-Mean Distance from Mean coordinates  
0.02808016792198365

## 4. Boston, MA

-Mean Distance from Mean coordinates  
0.034907238056535936

## 5. Chicago, IL

-Mean Distance from Mean coordinates  
0.06294178822671097

# Conclusion:

- Even though Jersey City has the least number of pizzerias compared to all the other major cities, it has the least mean distance from the mean coordinates which means that you are surrounded by the most pizzerias in Jersey City than in any other city.