

Predicting potential Movie theatres in New york city

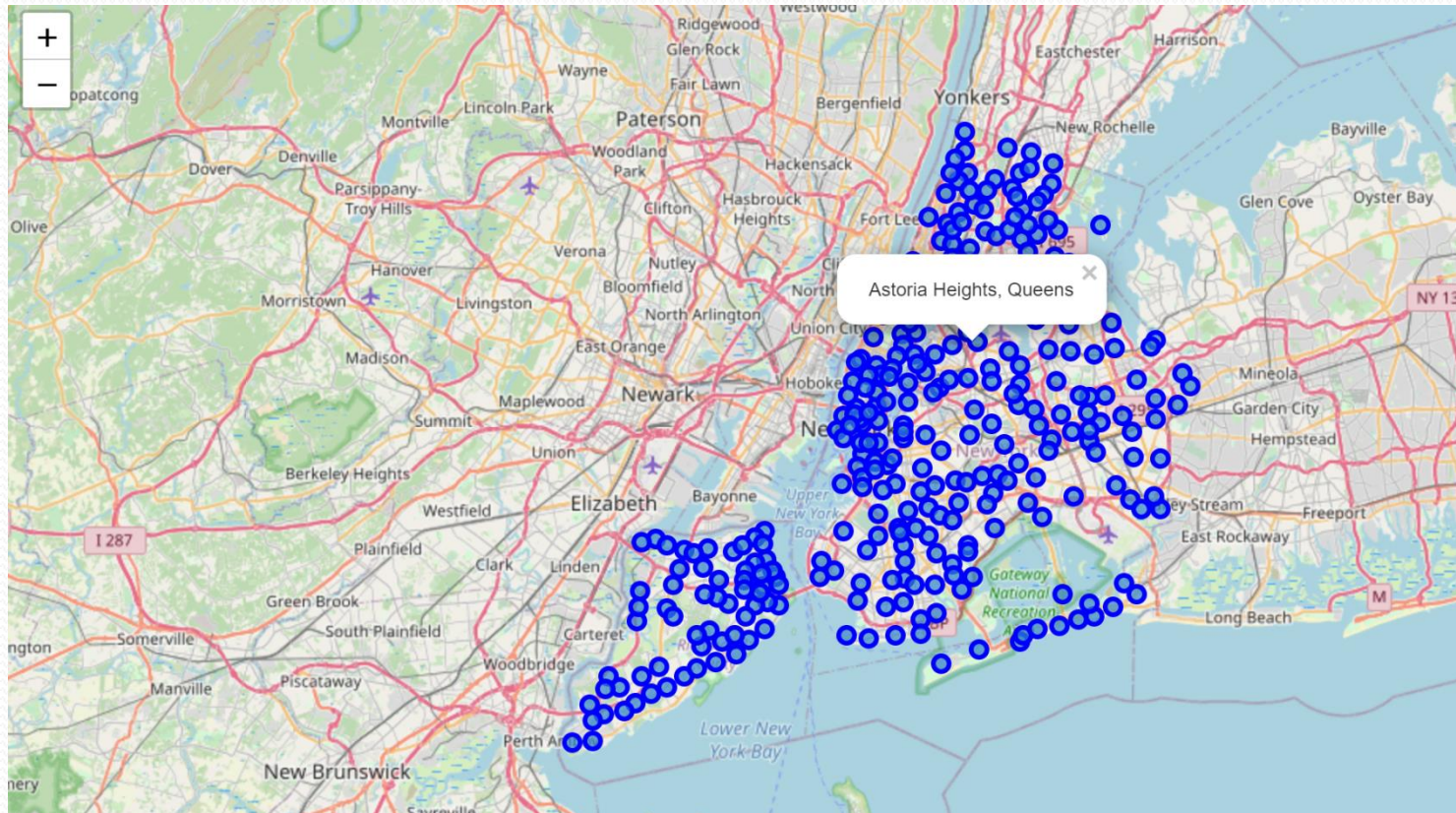
Providing potential boroughs to start up movie theatre is valuable to stakeholders who are interested investing

- Generally its best to invest in starting up a movie theatre in a place which has a lack of movie theatre in a densely populated area
- This is useful for potential business investors
- Its beneficial to the people in the nearby neighbourhood
- Other small business initiatives like
 - snack stalls
 - fast food/restaurants
 - Taxi stands
 - ice cream stand
 - movie

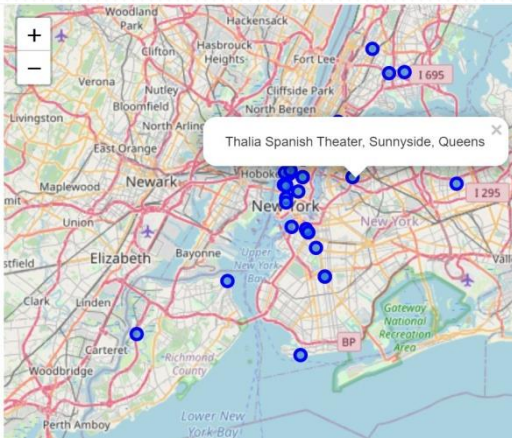
Data Acquisition and cleaning

- New york neighbourhood dataset, data scraped from https://cocl.us/new_york_dataset
- Population of New york neighbourhoods, data scraped from <https://data.cityofnewyork.us>
- All venues of any type of theatre in the neighbourhoods in given Borough in New york city (Foursquare API)
- All venues which are movie theatre in a given Borough (Foursquare API)
- missing values were dropped
- cleaned data contains 45 theatres and 10 movie theatres

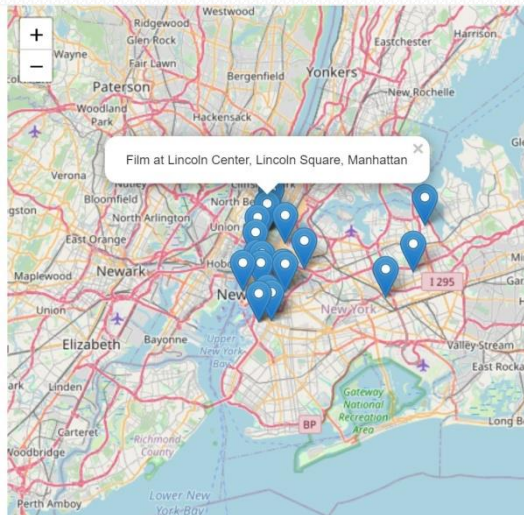
Neighbourhoods in New York City



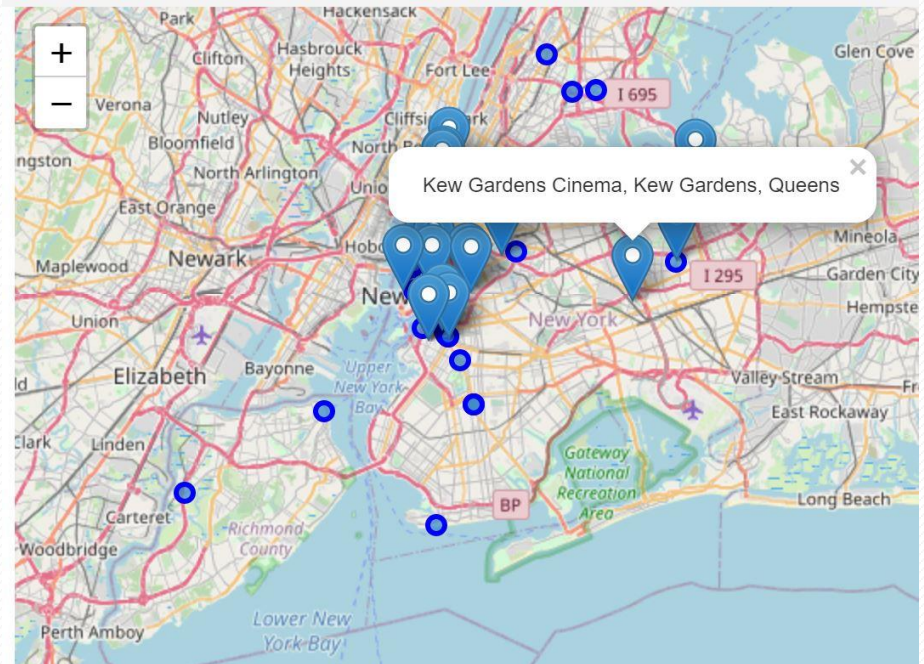
Theatre & Movie theatres in New York city



Theatres in NYC- scatter plot

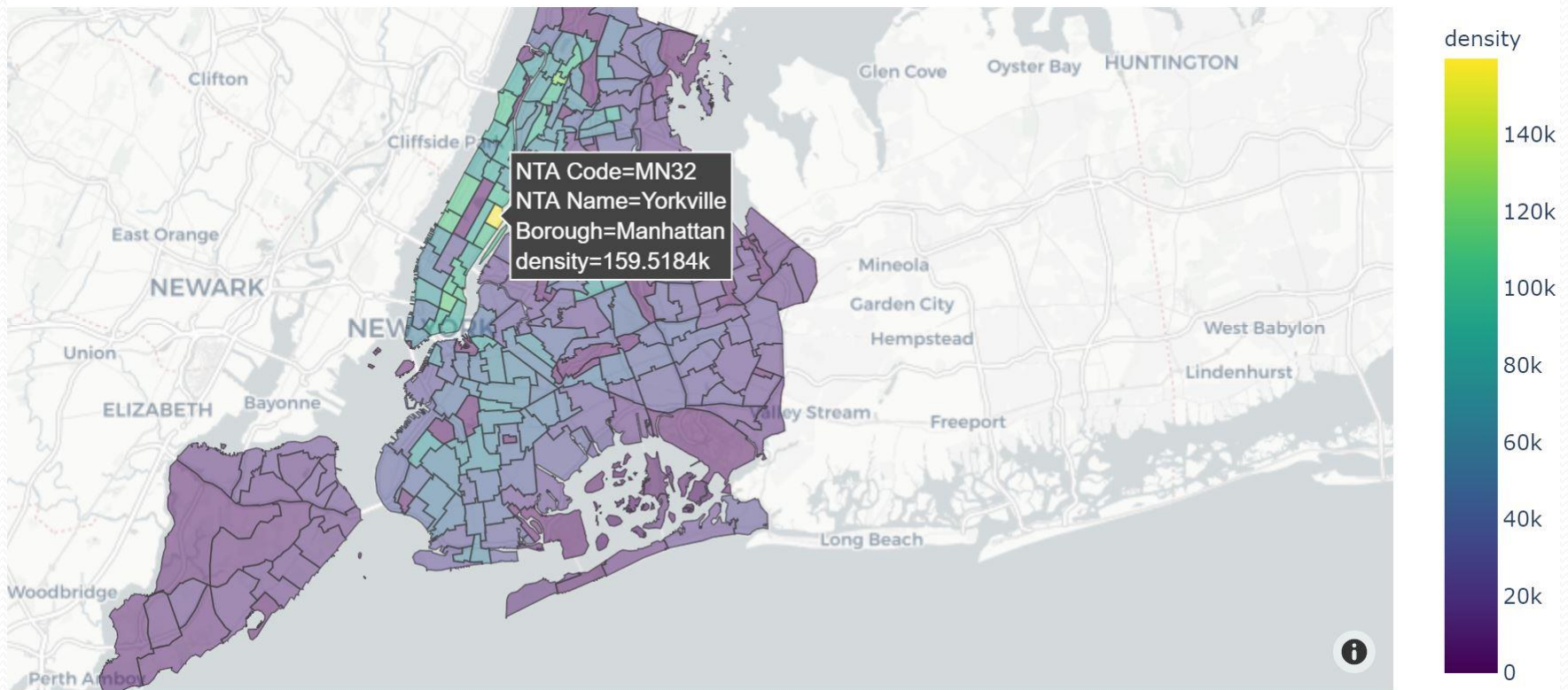


Movie Theatres in NYC- Markers



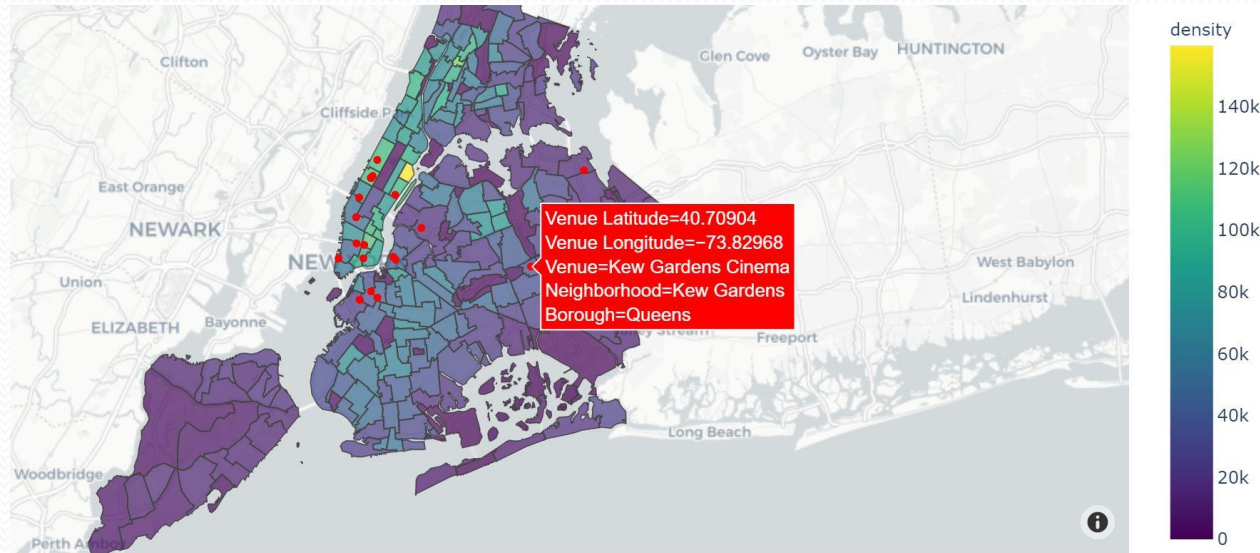
- Combined view of
- Theatres (scatter plot)
 - Movie Theatres (markers)

Population in each Neighbourhood



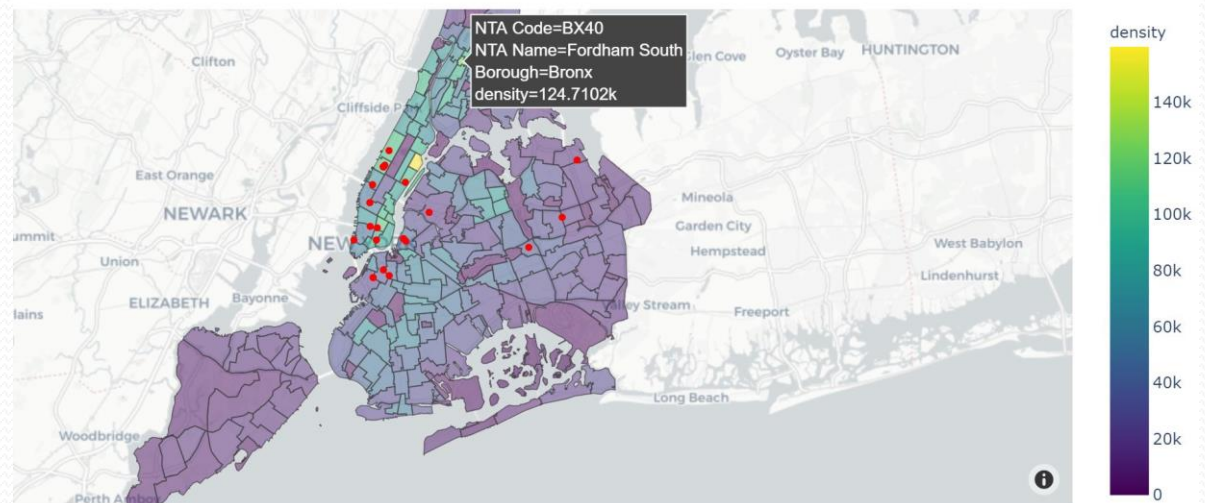
Most densely populated is Yorkville, Manhattan, New York city

Movie theatres based on population



Red dots are the movie theatres in New York city

Fordham South, Bronx is moderately populated and a potential place to bring a new movie theatre



Conclusion

- It has been observed that Manhattan being the borough that's densely populated has sufficient movie theatre to cater to the needs of the people
- Boroughs Brooklyn
- Boroughs Brooklyn and Queens are moderately populated and has sufficient movie theatres to cater to needs of its occupants
- Borough Staten Island population is quite low, though it is a potential area to bring a new movie theatre the profit would be low
- Borough Bronx is quite small and moderately populated. Fordham South is the second highest populated neighbourhoods in New York City and is the most potential places to invest in a new movie theatre.