

# The Battle of Neighborhoods Final Presentation

NYC Homeless Shelter Center

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# Introduction

- The goal of this project is to highlight the services we provide for the homeless community in New York, and to analyze a new location that will allow us to streamline and coordinate all resources.
- Using data analysis and data visualization, we will be able to find the solution of where to open this new Center

# Data

- A list of pre-existing shelter locations (addresses) are found from Breaking Ground's website, a community dedicated to help house homeless individuals, among other assistance
- We will match the zip codes of these addresses to its corresponding coordinates (latitude and longitude)
- Find the median of these coordinates to see which area within NYC will be the best (in terms of closeness to other locations)

# Methodology

- Use data from Breaking Ground:  
<https://www.nyep.uscourts.gov/reentry/NYC%20Homeless%20Shelters.pdf>
- Import required libraries: numpy, pandas, statistics, requests, bs4 (beautifulsoup), folium (map), geopy (coordinates), and matplotlib (plots)
- Create Scatterplot and plot coordinate points
- Find the median coordinate and plot there to visualize in relation to other points

# Results

- The Chelsea neighborhood is the median point among all shelter locations, zip code is 10001
- Most shelters are in Manhattan, therefore a suitable location for the center



# Discussion

- The analysis of this report shows that the Chelsea Neighborhood is best for a new center
- This was a preliminary analysis, and more in-depth will have to be completed to gain a better idea of whether this neighborhood will allow us to streamline all homeless shelter activities
- The shelter list we used was also limited to 17 locations, there might be more services in NYC available, but not included on this list
- Although most shelters are found in Manhattan, other boroughs might be facing more challenges in housing. If possible, new resources should be put in place for homeless prevention/intervention, as opposed to finding late solutions

# Conclusion

- New York City is one of the wealthiest states for their popularity, resources, and uniqueness. However, there are also many downsides and flaws that are overseen, such as the struggles of communities
- The focus of this project was to examine pre-existing centers and start a new Health Center that will streamline all resources available. To make this as accessible as possible to everyone looking for help, the neighborhood that is the closest to other locations will be proven beneficial