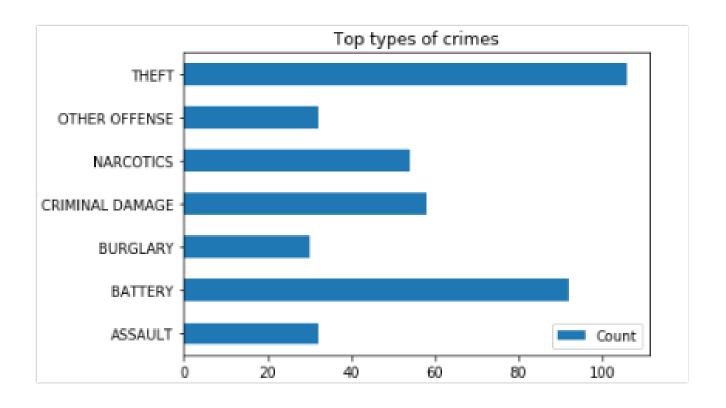


#### Introduction

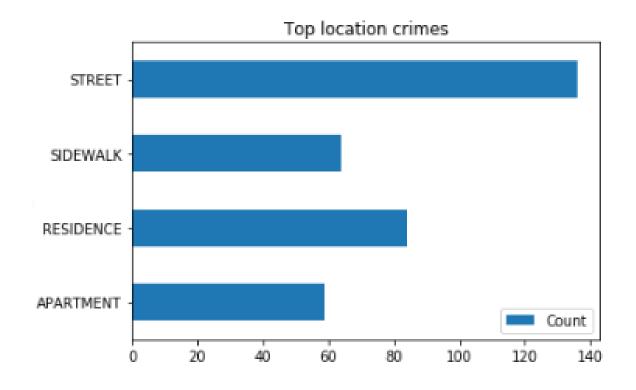
- ♦ The Chicago Police Department's Bureau of Records has been tracking and recording <u>data regarding crimes</u> since the beginning of the 20<sup>th</sup> century.
- Chicago has a higher than average crime rate, comparing it against the rest of the United States, and in spite of the fact that plenty of time has been dedicated by professionals in the research of this matter, there is still no consensus as to which are the reasons behind this.
- Using the data collected by Chicago Police Department's Bureau of Records it might be possible to contribute to determining which areas would require tighter police controls.

# Initial Exploratory Analysis



By observing only the types of crimes that show 30 cases or more, it can be clearly seen that the most common type of crimes happen to be thefts.

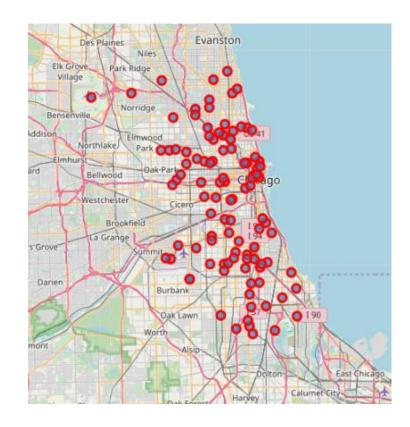
# Initial Exploratory Analysis



Just as it might be expected, **most crimes**happen on the streets/sidewalks, followed
closely by residences/apartments. This
reveals the fact that a more prominent
presence of policemen throughout the
city's public places could play a significant
role fighting this problem.

Using maps in order to detect geographic patterns in crimes could provide interesting insights, and identify areas in which future actions should be focused on.

(Thefts)



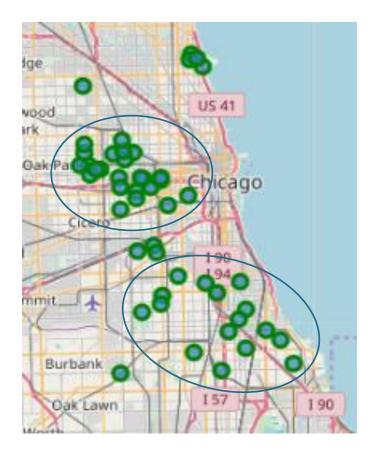
Using this image, **no geographic pattern can be identified to describe thefts**. They seem to be spread randomly, maybe showing a few areas that slightly concentrate more thefts than the rest. However, this is not completely clear.

(Thefts)



Nonetheless, we can easily check that thefts do not escape the nature of crimes in general: streets are the most common type of location.

(Narcotics)



Regarding crimes related to narcotics, **there** seem to be two slightly defined clusters. This might indicate the existence of two separate organizations running the narcotics business in separate areas of the city.

(Narcotics)



Once again, narcotics related crimes follow the general pattern regarding the type of locations where they take place. This can be explained by the fact that most drug dealers choose to do the selling activities out on the streets, and some do this in hidden or camouflaged residences.

#### Conclusions



#### Focusing

By using the information and hypothesis obtained by this analysis, police action can be redirected in order to use the limited resources in a more efficient way.

The most relevant crimes are theft, battery, and narcotics. Based on this analysis, the recommendations I would provide are:

-Increase police presence in the streets and public places, given the fact that that is where the most crimes take place. Sadly, since there is no clear geographic pattern, we cannot provide more information about the specific places in which those extra policemen would be more useful.

-Conduct a new investigation focused in narcotic related crimes, using the hypothesis that two different "gangs" or organizations might be carrying out the drug trafficking and selling activities.