Project Proposal – Data Visualization

1) **The dataset**

It’s huge

2) **The questions you expect to answer by analyzing the data**

What are the safest areas in Chicago? How did safety levels develop with time?

Are the efforts in mitigating crime being effective? Do they contribute to a safer society? Does crime follow any temporal pattern?

Which beats are overloaded? Where should the police focus when dispatching cars?

3) **The hypotheses you formulate by an earlier inspection and exploratory analysis of the data**

We believe crime has decreased in general terms, but there might be differences across segments. We believe the police might not be addressing crime types in proportion to their volume/seriousness.

We believe there might be some problems related to police staffing, making them less reactive to simultaneous crimes in the same location.

4) **The problems you foresee in analyzing the data and creating visualizations**

Modelling the safety function and deciding what weights to use. Effectively sampling the data. Transmit safety levels for a given year (present) and simultaneously represent their time evolution in an effective and simple way. Scaling seriousness of crimes. Deciding on resolution vs simplicity in maps.