CMP 464 Data Science

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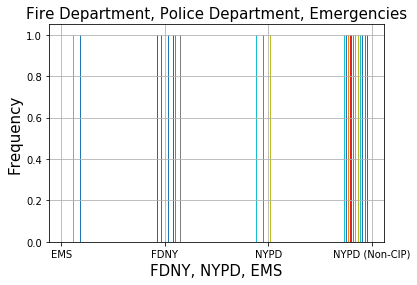
Final Project

911 End to End Data

The 911 End to End Data offers a range of statistic information in regards with the Agency and incident types called, received. Specifically, Agency meaning the FDNY fire\_department, NYPD police\_department and EMS emergencies. Furthermore, Final Incident Type column represent the different cases, or definition of the incident that has been report over the phone to the 911 line.

Phase I of the Jupyter Notebook represents the Loading and extraction of the general Data. It represents general statistic of the whole data. For example, the volumes of called and info in regard to all the main Agency together.

Phase II The main idea is to divide and identify some differences between the volume of incidents for each Agency. In this diagram are shown a simple colorful line defining the number of incidents for each Agency. However, it doesn’t show a clear understanding. For a better idea a correlation of the data needs to be done.



Phase III Correlation. It starts with a correlation of the data incidents generated for each department.



In the previous Histogram the Categorization of incidents for each department is shown. Emergency has two main incidents: Life Threating Medical Emergencies and Non-Life Life Threating Medical Emergencies. FDNY has four: Structural fires, Non-Structural Fires, Medical Emergencies and Non-Medical Emergencies. NYPD has Three: Critical, Serious and Non-Critical. Last one, NYPD (Non-CIP) which I have analyzed separate. It means Non-Crime In Process but has a high volume of called, as well.