

Final Report

Chicago-San Francisco Crime Data Visualization

By

Team UXability

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I. Project Target Audience

The purpose of our application is to compare the crime rate for two cities. Those two cities are San Francisco and Chicago. The way we do this is by data visualization through the use of high-quality graphs that detail different aspects of crime for both cities. A typical person who would use this kind of application is someone who is deciding to move to either San Francisco or Chicago and a big factor in their decision-making is the safety in their surroundings. Their goal is to make sure they and their family are as safe as possible and knowing the crime rate over the years and the typical crimes that are committed for both cities could make the biggest impact as to which city they decide to move to.

II. Fulfillment of Goal

How we fulfilled this goal is by showing side-by-side graphs of different crime criteria for both cities. For example, we compare the crime rate throughout the years for both cities using a line graph. We also show which crimes are the most commonly committed for both cities. Another example is showing the crime rate throughout the week which shows which days do the most crime occur on. From looking at all of the graphs, one can come to the conclusion that Chicago is a better place to live in if the decision were to be made solely on crime. This is because Chicago is experiencing a rapid decrease in crime over the years, whereas San Francisco experience spikes in crime.

III. Data Sources

Both of our data sources come from .gov sites that provide Excel spreadsheets to the public detailing all of the criminal acts that have taken place in a certain time period, the type of crime that was committed, where it occurred, when it occurred, etc.

IV. What do visualizations show

To reiterate, our graphs compare the crime rate throughout the years for both cities using a line graph. We also show which crimes are the most commonly committed for both cities. Another example is showing the crime rate throughout the week which shows which days do the most crime occur on. Lastly, we show which are the safest school districts in each of the cities based on the amount of crime that has occurred.

V. Technology Used

We created all of the visualizations in the software Tableau Public because we were able to make high-quality graphs, plus we were able to keep all of our graphs on the cloud for easy access since we had kept a common password amongst us. We also used Axure, Javascript, HTML, and CSS to create our webpage.

The screenshot shows a web application interface with a black header containing the title "CHICAGO AND SAN FRANCISCO" and a yellow navigation bar with "Home", "View", and "Contact" links. The main content area is white and features a central menu of options under the heading "SELECT FROM BELOW". The options are: "TOP FIVE CRIMES IN BOTH CITIES", "A CLOSER LOOK", "ANALYSIS BY THE DAY OF THE WEEK", "ANALYSIS OF TOTAL CRIME OVER THE YEARS", "ANALYSIS OF AUTO THEFT OVER THE YEARS", "ANALYSIS OF BEST SCHOOL DISTRICTS BASED ON CRIME", and "ANALYSIS OF BEST SCHOOL DISTRICTS BASED ON CRIME (BY STREET)". Below the menu is a video player titled "USA crime stats" showing a police officer. To the left and right of the main content are sidebars with detailed information for Chicago, Illinois and San Francisco, California, including statistics and maps. At the bottom of the page is a yellow bar with the text "TEAM UXability".

CHICAGO AND SAN FRANCISCO

Home View Contact

SELECT FROM BELOW

TOP FIVE CRIMES IN BOTH CITIES

A CLOSER LOOK

ANALYSIS BY THE DAY OF THE WEEK

ANALYSIS OF TOTAL CRIME OVER THE YEARS

ANALYSIS OF AUTO THEFT OVER THE YEARS

ANALYSIS OF BEST SCHOOL DISTRICTS BASED ON CRIME

ANALYSIS OF BEST SCHOOL DISTRICTS BASED ON CRIME (BY STREET)

USA crime stats

CRIME NEWS

TEAM UXability

This is the page that is shown when the user clicks the "Trends" button on the homepage. A list of data visualization choices are shown for the user to choose from.

CHICAGO AND SAN FRANCISCO

Home

View

Contact

ANALYSIS OF TOTAL CRIME OVER THE YEARS

Chicago Crime Reached "Historic Low" in 2014: Police

Police say murders were down in 2014, but shootings were up

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Updated at 10:34 AM CDT on Thursday, Jan 1, 2015

Chicago closed 2014 with what police said were "historic lows" in crime and murder numbers.

The year saw a drop of 3 percent in murders, marking the lowest murder rate since 1965, when there were 297, according to Chicago Police Superintendent Garry McCarthy.

TRENDING STORIES

Helmet Camera Captured Deadly Yosemite Cliff Jump

Riot Feet Moves to Douglas Park for 2015

VICTIM: Grey Whale Struck Paddleboarder in New Zealand

7 ER Nurses Injured After Fight Bandage Leads to Amputation

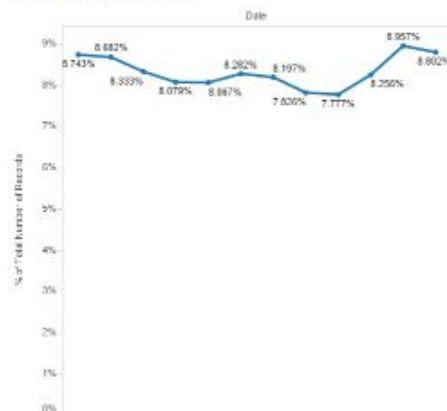
Navy Plan to Host "Surprise" Fireworks Show

WEATHER FORECAST

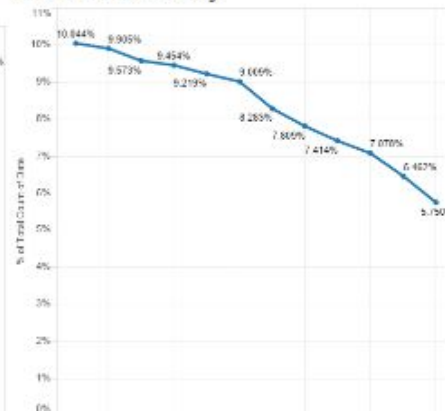
Chicago, IL

45°
Overcast
Falls 10-14°

Crime Count Per Year - SF



Crime Count Per Year - Chicago



This page shows line graphs for the crime rate over the years for both cities

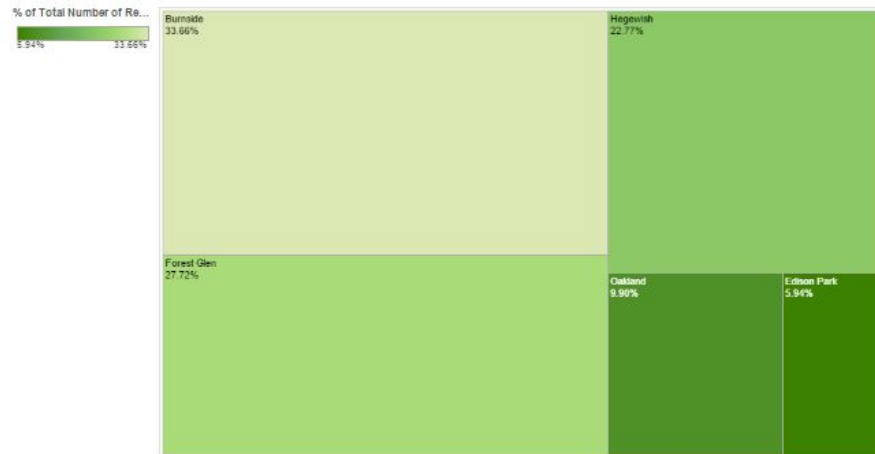
CHICAGO AND SAN FRANCISCO

[Home](#)

[View](#)

[Contact](#)

ANALYSIS OF BEST SCHOOL DISTRICTS BASED ON CRIME



This page shows the safest school districts in both cities.

VI. How to Run Application

To run our application, one must click the home.html file that takes him/her to the homepage of our website hosted on the localhost. From there, one can click any of the links supplied on the homepage depending on what criteria of crime they are interested in analyzing.