

# Crime Rate variation from 2001 to 2016

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## Executive Summary

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This report presents a detailed analysis of criminality across various jurisdictions in the United States over 16 years. The study calculates crime indexes by type of crime, visualizes them, and provides an interpretation of the observed trends. Finally, an overall crime index is presented, summarizing the situation through the years.

## Introduction:

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The primary objective of this study was to analyze trends in crime rates across the United States to determine whether they have increased or decreased over the years. The aim was to assess whether living in the U.S. today is safer compared to previous years.

## Data Description

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The data used in this analysis comes from official sources that record crimes committed in various jurisdictions of the United States between the years 2001 and 2016. The main variables include the type of crime, the jurisdiction, and the year in which it was committed.

## Methodology

Crime indexes were calculated for each type of crime and visualized using appropriate graphs. The visualizations include line charts to analyze temporal trends and heat map to compare jurisdictions. Additionally, snippets of R code are included to allow for the reproduction of the analysis.

## Different types of crimes indexes behavior:

