




NYPD Shooting Incident report

Data

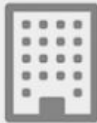
Source : <https://catalog.data.gov/dataset/nypd-shooting-incident-data-historic>

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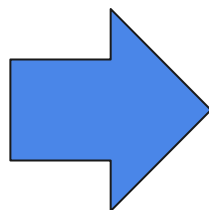
NYPD Shooting Incident Data (Historic)

Metadata Updated: November 10, 2020

List of every shooting incident that occurred in NYC going back to 2006 through the end of the previous

Clean up & Transform

	BORO	STATISTICAL_MURDER_FLAG	date
1	QUEENS	false	2019-08-23
2	BRONX	false	2019-11-27
3	MANHATTAN	false	2019-02-02
4	STATEN ISLAND	true	2019-10-24
5	BRONX	false	2019-08-22
6	BROOKLYN	false	2019-06-07
7	BROOKLYN	false	2019-03-11
8	BROOKLYN	true	2019-10-03
9	QUEENS	false	2019-02-17
10	BROOKLYN	false	2019-07-10
11	BRONX	false	2019-06-03
12	BRONX	false	2019-11-04
13	BROOKLYN	false	2019-12-02
14	QUEENS	false	2019-06-01
15	STATEN ISLAND	false	2019-08-21
16	BROOKLYN	false	2019-04-27
17	BRONX	false	2019-11-27
18	BROOKLYN	false	2019-07-21
19	BROOKLYN	false	2019-12-30
20	BROOKLYN	false	2019-07-06
21	QUEENS	false	2019-04-19
22	BROOKLYN	false	2019-12-21
23	BROOKLYN	true	2019-01-01



	date	BORO	cases	murder_cases
1	2006-01-01	BRONX	2	0
2	2006-01-01	BROOKLYN	2	1
3	2006-01-01	MANHATTAN	1	1
4	2006-01-01	QUEENS	3	2
5	2006-01-02	BROOKLYN	3	1
6	2006-01-02	STATEN ISLAND	1	0
7	2006-01-03	BROOKLYN	2	1
8	2006-01-03	QUEENS	2	0
9	2006-01-04	BRONX	1	0
10	2006-01-04	BROOKLYN	1	0
11	2006-01-04	QUEENS	2	0
12	2006-01-05	BRONX	2	0
13	2006-01-05	BROOKLYN	2	0
14	2006-01-06	BRONX	3	0
15	2006-01-06	QUEENS	1	0
16	2006-01-07	BROOKLYN	1	1
17	2006-01-07	QUEENS	1	0
18	2006-01-08	BROOKLYN	2	1
19	2006-01-08	QUEENS	1	0
20	2006-01-08	STATEN ISLAND	1	0
21	2006-01-09	BRONX	4	2
22	2006-01-09	BROOKLYN	4	3
23	2006-01-09	MANHATTAN	1	0

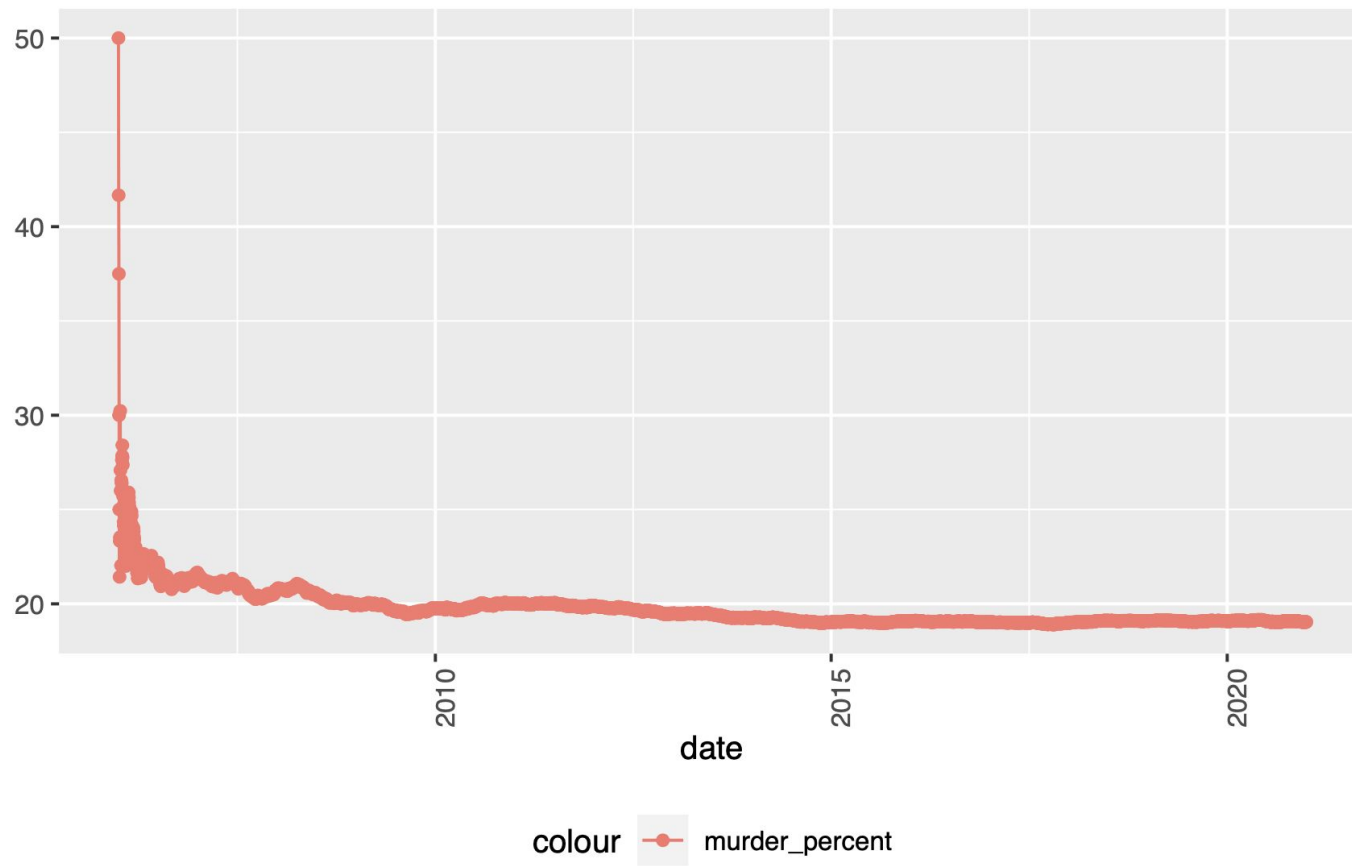


Calculation

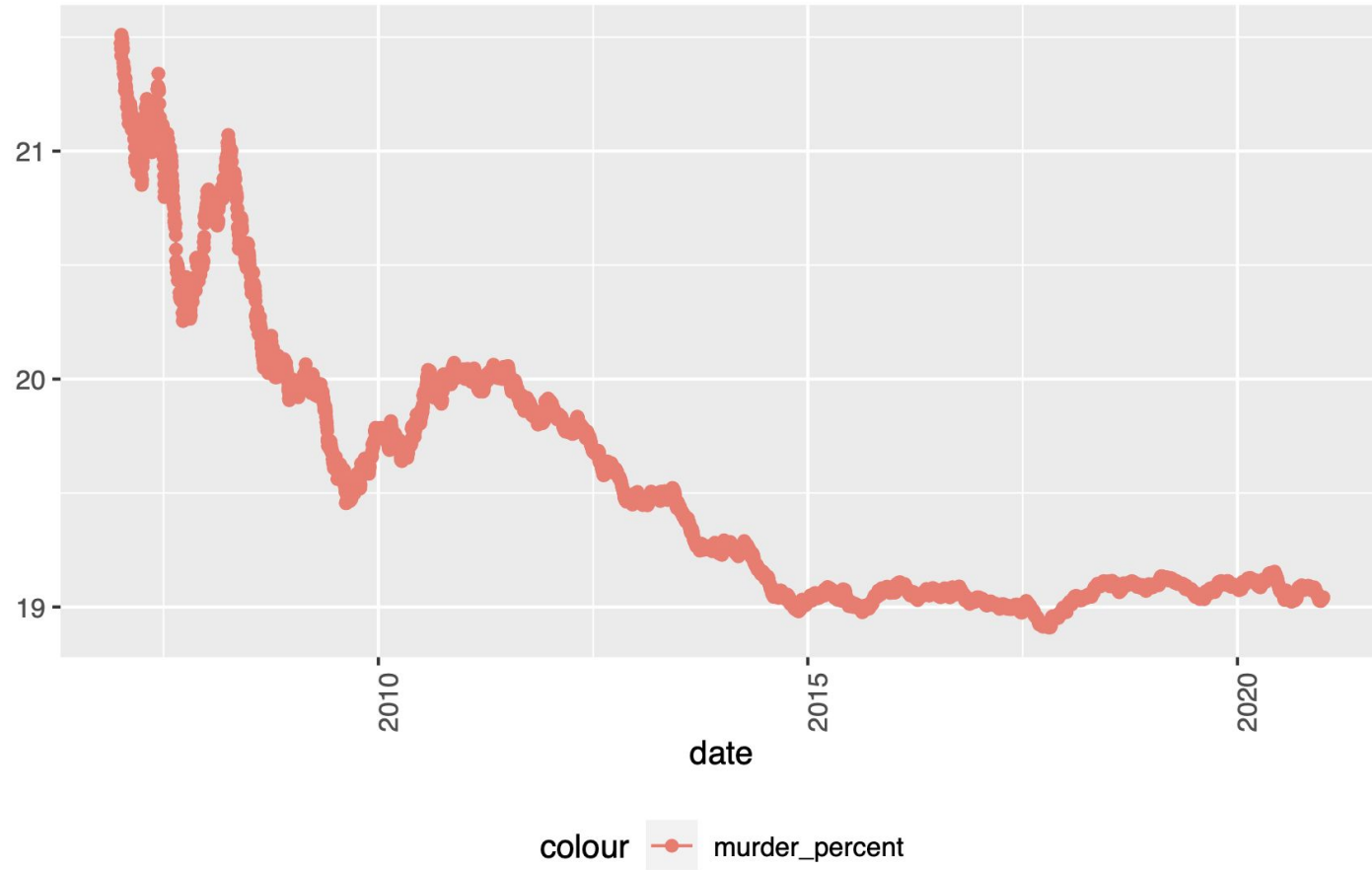
$$\textit{Murder perecnt} = \frac{\textit{muder cases}}{\textit{all cases}} \times 100$$

New York cases

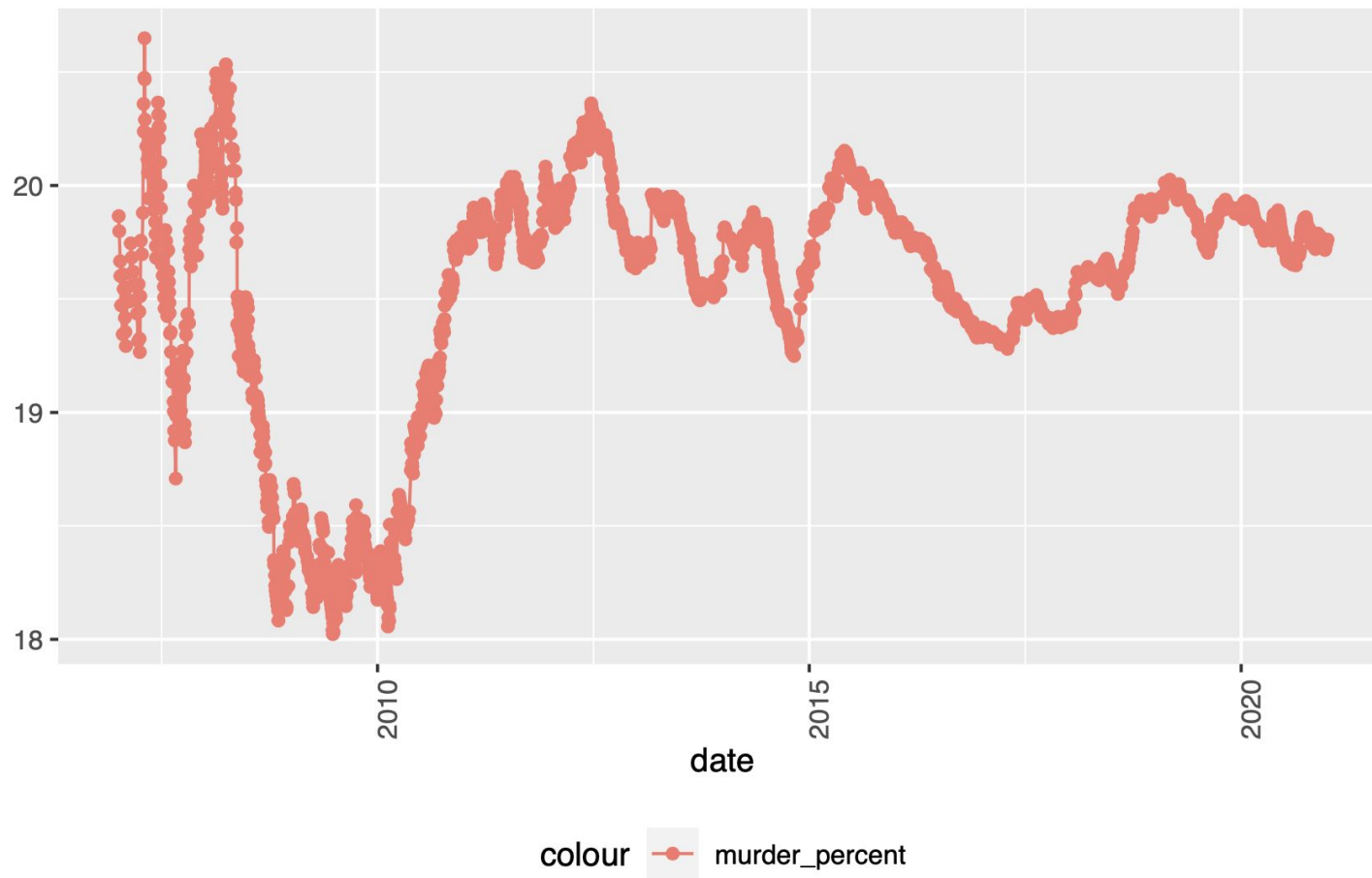
NY murder case ratio



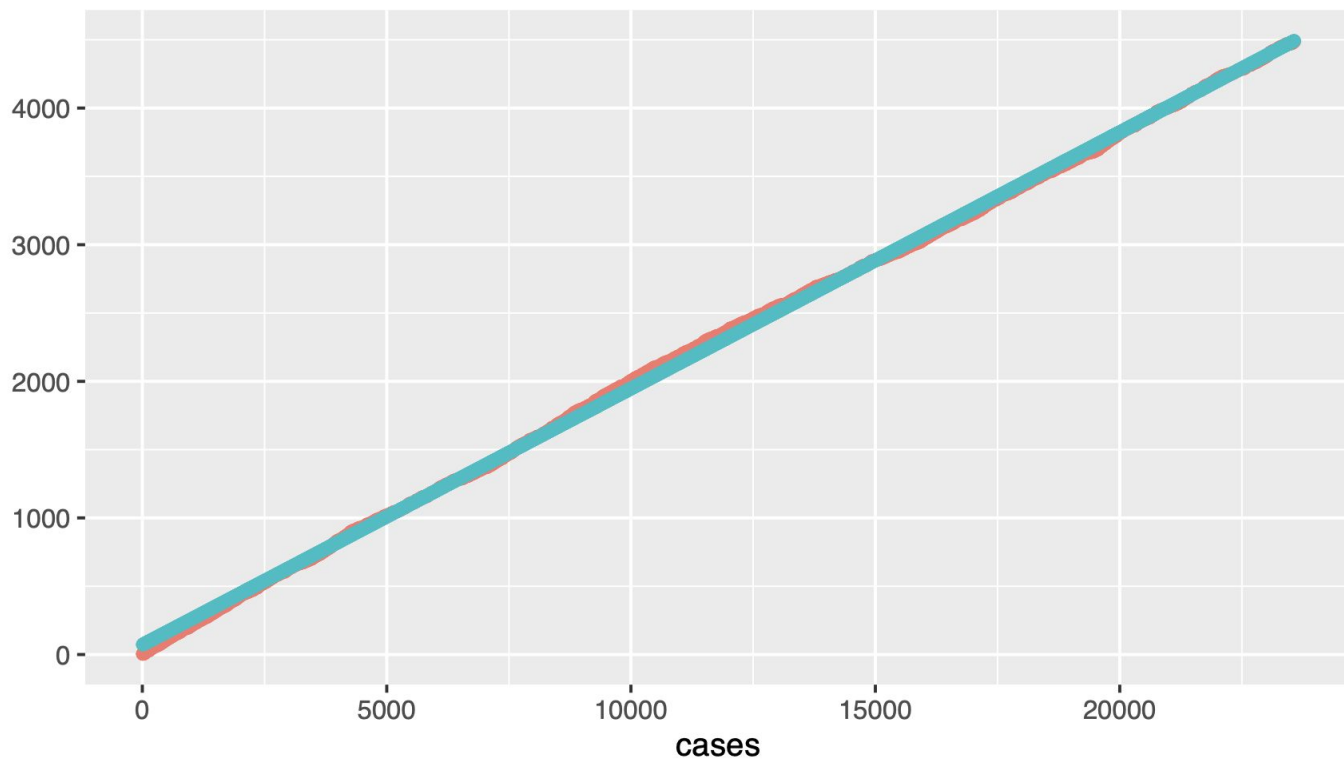
NY murder case ratio



Queens murder case ratio



murder cases from all cases



colour ● actual ● predicted



Analysis

- New York murder rate decrease until 2015 and then stable
- Queens also decrease. But, it increase from 2010 to 19-20%
- Something happened in Queens in 2010?

Bias?



If you have something to ask

Github : <https://github.com/Satiarporn/NYPD-Report>

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Thank You