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4.6 Optional Assignment

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Look at the following data set showing the total population and number of various crimes committed in each of NYC's five boroughs from 2010-2014.

Borough	Year	Population	Murder	Robbery	Aggravated Assault	Property Crime Total
Manhattan	2010	1,585,873	70	3,787	4,690	42,468
Manhattan	2011	1,601,948	71	3,648	5,014	41,837
Manhattan	2012	1,619,090	63	3,581	5,163	42,654
Manhattan	2013	1,626,159	39	3,340	5,093	43,164
Manhattan	2014	1,636,268	37	2,909	5,138	39,239
Brooklyn	2010	2,504,700	222	6,684	9,285	40,658
Brooklyn	2011	2,532,645	198	7,090	10,547	40,832
Brooklyn	2012	2,565,635	149	7,295	10,871	42,017
Brooklyn	2013	2,592,149	147	6,854	10,856	40,798
Brooklyn	2014	2,621,793	122	5,980	10,604	39,647
Queens	2010	2,230,722	100	4,066	5,363	29,083
Queens	2011	2,247,848	82	4,057	5,951	29,552
Queens	2012	2,272,771	83	4,149	6,267	29,446
Queens	2013	2,296,175	59	3,994	6,433	29,173
Queens	2014	2,321,580	64	3,271	6,258	28,230

The Bronx	2010	1,385,108	127	4,647	7,105	21,938
The Bronx	2011	1,392,002	148	4,580	7,335	22,863
The Bronx	2012	1,408,473	114	4,731	7,736	23,161
The Bronx	2013	1,418,733	83	4,456	8,292	23,260
The Bronx	2014	1,438,159	95	4,004	8,372	23,317
Staten Island	2010	468,730	17	424	866	5,468
Staten Island	2011	470,467	16	398	982	5,373
Staten Island	2012	470,728	10	445	1,174	5,482
Staten Island	2013	472,621	7	526	1,093	5,576
Staten Island	2014	473,279	15	417	1,088	5,314

Data Source: www.nyc.gov

4.6 Discussion Question: Decision making process

Please describe which chart you would choose to visually illustrate each of the following comparisons:

1. Which crime types are proportionally more common or less common in each of the boroughs?
2. Whether murder rates from 2010-2014 across each borough are related to other crime rates in the same period?
3. What are the challenges to plotting large ranges in data values (e.g. murder rates versus property crime rates) in one visualization?
4. What other data might be useful to further explore changes in these crime rates over time?

Provide your answers to the above questions in the space below.

Week 4.6 Discussion: Decision Making Process

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Topic: Week 4.6 Discussion / Decision Making Process

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