**THE DATA**

Source:

1. The number of domestic violence victims in New York State: <https://www.criminaljustice.ny.gov/crimnet/ojsa/domestic-violence-data.html>
2. The geographic information of Family Centers in New York City:

<https://data.cityofnewyork.us/Social-Services/Mayor-s-Office-to-End-Domestic-and-Gender-Based-Vi/5ziv-wcy4>

1. Borough Boundaries

<https://data.cityofnewyork.us/City-Government/Borough-Boundaries/tqmj-j8zm>

Downloaded CSV (The number of domestic violence victims). Original data is in “DV Report 2013” and “DV Report 2018” tab here:

<https://drive.google.com/file/d/1suW1VfH75z2TtfvMLxjQtfTghRVWKA-0/view?usp=sharing>

Downloaded CSV (The geographic information of Family Centers). Original data is in “Mayor\_s\_Office\_to\_End\_Domestic\_” tab here: <https://drive.google.com/file/d/1BCCKj8gJfEVUWAdrBBpicKiUJUv8Oy0n/view?usp=sharing>

**ACTIONS**

Downloaded 2013, 2018 data sets about the number of domestic violence victims in New York State, and made them as one file. (Move 2013 data tap to the 2018 file.)

Added up 2013, 2018 data to one tap.

Name the tap “2013v2018”

Clean data.

* Erase columns that I do not need. (Delete the information except Total and County names)
* Change county names to borough names. (Kings County=Brooklyn, New York=Manhattan, Richmond=Staten Island)
* Created columns: “Gap” and “Rate.”
* Under the column “Gap,”
  + Typed D2=C2-B2, and double click the + mark on the bottom of D2’s right side.
* Under the column “Rate,”
  + Typed E2 =D2/B2, and Click the Percent Style button (Home tab -> Number group)

Created the map through Carto.com using a file “DVNYC2018,” and “Borough Boundaries.zip”.

Downloaded the data about the geographic information of Family Centers in New York City.

Added “FamilyCenter” tap (copy the original data).

Name the tap “Data”

Clean data.

* Selected the column named “DISPLAY PHYSICAL ADDRESS” and used “Sort and Filter” button to sort out “No.”
* Erased all the “No” lines in the chart.
* Erased columns that I do not need. (Delete the information except Name, Address, Borough, Phone, Website, Latitude, and Longitude.)

Add a new layer to the map showing the change of domestic violence victims’ number using the file “FamilyCenter” on Carto.com

Publish the map:

<https://mjkoo9.carto.com/builder/adb6d9ee-5e46-4ca1-8938-fb591ac12ed1/embed>

Add the column “Family Center” in the file “DVNYC2018.”

Sort and count the number of family centers in each borough and fill the column.

**OBSERVATIONS**

The number of domestic violence victims citywide increased from 2013 to 2018, but only in Brooklyn, 4% of the number of DV victims decreased.

Averagely the number of DV victims 7% increased.

Centers for helping DV victims working with the NYC Mayor’s Office to End Domestic (family centers) and Gender-Based Violence are disproportionately located in Manhattan and Bronx.

Brooklyn has the largest number of family centers. However, considering the increased number of DV victims in Manhattan, it is difficult to say that the decrease of DV victims in Brooklyn is directly related to the number of family centers.

Carto

<iframe width="100%" height="520" frameborder="0" src="https://mjkoo9.carto.com/builder/adb6d9ee-5e46-4ca1-8938-fb591ac12ed1/embed" allowfullscreen webkitallowfullscreen mozallowfullscreen oallowfullscreen msallowfullscreen></iframe>