

Neighborhood Crime Rate (Boundary File) – API

https://data.torontopolice.on.ca/datasets/af500b5abb7240399853b35a2362d0c0_0?geometry=-80.685%2C43.542%2C-78.072%2C43.890

The screenshot shows the Toronto Police Service Public Safety Data Portal. The header includes the Toronto Police Service logo and the text "PUBLIC SAFETY DATA PORTAL". Below the header is a navigation bar with links: Home, Catalogue, Open Data, Data Analytics, Maps, Crime @ a Glance, Strategy, Terms of Use, and FAQ. The main content area features a map of the Greater Toronto Area with a search bar "Search data and map" and a "Sign In" button. The map shows the "Neighbourhood: West Humber-Clairville" highlighted in blue. Below the map is a "Query" section with a table for parameters and values. The table has two columns: "Parameter" and "Value". The first row has "Where" in the "Parameter" column and "No Active Filters" in the "Value" column. To the right of the table is a "Query URL" section with a text box containing the URL: `https://services.arcgis.com/5991e3637b9374w/arcgis/rest/services/Neighbourhood_RCI/FeatureServer/0/query?where=1&outFields=*%26outSR=43268&f=json`. Below the URL is a "Download" button and an "APIs" button.

Toronto Neighborhoods Boundary File includes 2014-2018 Crime Data by Neighborhood. Counts are available for Assault, Auto Theft, Break and Enter, Robbery, Theft Over and Homicide. Data also includes four-year averages and crime rates per 100,000 people by neighborhood based on 2016 Census Population.

Narcity News Article on Toronto Crime Rates – Website for scraping via BeautifulSoup

<https://www.narcity.com/ca/on/toronto/news/toronto-neighbourhoods-ranked-by-how-dangerous-they-are-right-now-based-on-2018-crime-rates>

The screenshot shows the Narcity News website. The header includes the Narcity logo and navigation links: LOCAL, NEWS, TRAVEL, EAT & DRINK, THINGS TO DO, and MORE. The main content area features a large headline: "Toronto Neighbourhoods Ranked By How Dangerous They Are Right Now Based On 2018 Crime Rates". Below the headline is a sub-headline: "How does your neighbourhood rank?". The article is by Casey Aonso, updated on September 20 at 10:51 AM, with 538 likes. The article features a large image of the Toronto skyline at sunset. The text of the article begins with: "It's no secret that, in recent years, Toronto has seen a rise in crime. Though, when it comes to figuring out which parts of the area have it worse than others, it can be hard to compile all the information to figure out the".

This article provides a breakdown of the most common crime occurrence in each neighborhood, as well as the police district the neighborhood resides. This was one of the few sources providing the neighborhoods tied to their districts.

With these three datasets, there are 140 variables (each neighborhood) and approximately 2400 rows across them.

Relationships

The common relationship running through all three data sets is the neighborhood id (name). This one to many relationship occurs on with each. With this common relationship, there is belief that patterns will emerge across each neighborhood pertaining to crime and different demographics.

Steps to Accomplish Five Milestones

In order to accomplish all five milestones, the data is going to need to be scrubbed and analyzed. The formatting does not align between the three sources, so attention will need to be made in an effort to not cause spurious relationships. Additionally, from a quick review of the neighborhood naming across the three, there appears to be a very slight inconsistency in the naming of each. While only less than five, this connection is vital and will certainly need to be resolved. Looking ahead to the fifth milestone, the visualization of this data is something I am looking forward to a great deal. The mix of statistics and geography should allow for several striking charts and plots. Overall, the project is going to take a great deal of continued focus and new skills to be completed.