

Toronto is a massive metropolitan hub of business, technology, and life, being the largest city in Canada (fourth largest in the whole of North America), with over 6.4 million inhabitants and almost 100,000 new arrivals annually. While it boasts six-internationally recognized colleges and five world-renowned universities, many inhabitants are still in the beginning stages of their education with approx. 246,000 students in elementary and secondary schools aside from the 140,000 more in adult and continuing education programs, and 1,400 education centers and related businesses throughout the city. Sexual education is an invaluable element to any student's understanding of the world and themselves, and stigmas and misunderstanding frequently leave them with erroneous impressions of the dangers and responsibilities, as well as tools for dealing with them, that come with sexual maturity.

When parents are searching for a good place to raise their children and get them an education, there are a multitude of factors they must consider. Parents want more than anything to know that their children will be informed and safe about their health as well as their grades, especially as they grow and more independent as they age and seek out new experiences. The transition to sexual maturity and the responsibility and risks that come with it are a massive source of anxiety for parents and young adults alike, and they don't always have access to valuable knowledge about sex or care in the event of This report will seek to organize and clearly present information of where various sexual health centers are distributed throughout the city of Toronto as well as their proximity to educational centers. Also included and explored will be things such as contact information, the eligibility criteria to qualify for care, and the specific services provided by these centers.

The findings of this project will hopefully be of use to:

- Parents and guardians looking for nearby sources of reliable information, help and care for their children about their sexual experiences and potential problems stemming from them, especially ones located nearby to their places of residence or education.

- Teenagers looking for the same information since parents or guardians might not be best equipped to explain or help them through problems they may be experiencing.

- Schools that might seek to better inform their students about what they might encounter during their scholastic careers or later in life, and seek resources to help for sexual health classes and want their students to know about outside resources and how they can be accessed.

The geographical data of Toronto, such neighbourhood, data, and postal code were scraped from Wikipedia and coordinates were downloaded through the Coursera portal. Information on and the locations of educational facilities and youth sexual health service centers were downloaded as datasets from the Toronto open data portal. The latitude and longitude data for the sexual health centers was acquired from latlong.net.

In the data for the educational facilities, there is name data for the facility and school board, location data such as address, postal code, municipality, latitude and longitude. The data for the sexual health service centers consists of name and location data like the agency name, address, latitude and longitude, and neighbourhood, and accessibility information such as phone number, email address, website, description of services, eligibility criteria, application process, business hours, legal status, and language. These could all prove crucial information for anyone seeking aid from any one of these organizations and wanting to pick the best one available. When placed together, these pools of data could provide crucial insight into what the safest choice of school as far as accessibility to these resources would be, as well as any persons that might solicit resources from these organizations in any

capacity. I mapped both datasets latitude and longitude coordinates onto a map with different markers to differentiate different types of each facility: educational or sexual health. In the services description column for the sexual health centers, I searched for the most common and useful keywords and, using that, created another dataframe that flagged whether each facility listed each of the keywords in their description for ease of perusal and assessment of services. Each of the resulting points was labelled with information such as facility name, address, physical accessibility information, and eligibility criteria.

Using the map created with the data, we are able to see that most of the sexual health service centers are located in the southern-center area of Toronto. Given that many potential clients might not have easy access to one of these centers, they would be well advised to take note which ones are nearest them based on their needs and the services these centers provide. While this data and these tools, the map and dataframes, might prove useful for those searching for a broad picture of where to go for sexual health services in the city of Toronto, it would be more helpful for future projects if there were more complete data on the sexual health issues being experienced by which demographics of the population in which areas, such that recommendations could be made even more precisely catered to an individuals needs. This project didn't precisely involve any machine learning or analysis of trends, instead being more a meta analysis on existing datasets to try and provide a helpful-to-the-layman view of what might be a sensitive but important issue. In the future, as discussed in the future directions suggestions, it would be far more fruitful to perhaps explore the impact of these health centers on combating various sexual health problems over time in their given areas or in Toronto as a whole.

GEO_ID	NAME	SCHOOL_LEVEL	SCHOOL_TYPE	BOARD_NAME	SOURCE_ADDRESS	SCHOOL_TYPE_DESC	ADDRESS_POINT_ID	ADDRESS_NUMBER
330677	A PLUS ACADEMY OF ADVANCEMENT	None	PR	None	2425 EGLINTON AVE E	Private	330677	2425
524780	A R S ARMENIAN PRIVATE SCHOOL	None	PR	None	50 HALLCROWN PL	Private	524780	50
20258267	A Y J GLOBAL ACADEMY	None	PR	None	4 LANSING SQ	Private	20258267	4
517961	A Y JACKSON SECONDARY SCHOOL	None	EP	Toronto District School Board	50 FRANCINE DR	English Public	517961	50
13967401	ABACUS MONTESSORI LEARNING CENTRE	None	PR	None	4 CREDIT UNION DR	Private	13967401	4

LINEAR_NAME_FULL	ADDRESS_FULL	POSTAL_CODE	MUNICIPALITY	CITY	PLACE_NAME	GENERAL_USE_CODE	CENTRELINE_ID	LO_NUM	LO_NUM_SUF	HI_NUM	HI_NUM_SUF
Eglinton Ave E	2425 Eglinton Ave E	M1K 5G8	Scarborough	Toronto	None	104008	111254	2425	None	None	None
Hallcrown Pl	50 Hallcrown Pl	M2J 1P7	North York	Toronto	None	104008	438652	50	None	None	None
Lansing Sq	4 Lansing Sq	M2J 5A2	North York	Toronto	None	104008	438287	4	None	None	None
Francine Dr	50 Francine Dr	M2H 2G6	North York	Toronto	A. Y. Jackson Secondary School	102002	436260	50	None	None	None
Credit Union Dr	4 Credit Union Dr	M4A 2N8	North York	Toronto	Latvian Canadian Centre	106007	444179	4	None	None	None

LINEAR_NAME_ID	X	Y	LATITUDE	LONGITUDE
125	323561.684	4843596.049	43.732091	-79.267107
5778	319037.215	4847803.338	43.770062	-79.323159
6007	318870.404	4848250.651	43.774091	-79.325220
5639	315536.964	4851708.323	43.805270	-79.366559
5294	319381.840	4842846.853	43.725441	-79.319013

Sexual Health Centers:

AGENCY_NAME	ORGANIZATION_ADDRESS	NEIGHBOURHOOD	OFFICE_PHONE	EMAIL	WEBSITE	ELIGIBILITY					
University of Toronto	1365 Military Trail, Scarborough, ON M1C 1A4	None	416-287-7065	health-services@utsc.utoronto.ca	href="http://www.utsc.utoronto.ca/wellness"...	Students who need medical care * valid health ...					
Talk Shop Sexual Health Clinic	5100 Yonge St, Lower Level, Toronto, ON M2...	None	416-338-7000	None	<a href="http://www1.toronto.ca" target="_blan...	People who need sexual health services					
Seneca College - Newnham Campus - Student Heal...	1750 Finch Ave E, Toronto, ON M2J 2X5	None	416-491-5050 ext 22965	None	href="http://www.senecac.on.ca/students/hea...	Students and staff who need medical care * val...					
Birth Control and VD Information Centre	960 Lawrence Ave W, Ste 403, Toronto, ON M...	Yorkdale-Glen Park, 31	416-789-4541	info@birthcontrolvd.org	<a href="http://www.birthcontrolvd.org" target...	None					
Birthright	777 Coxwell Ave, Toronto, ON M4C 3C6	Danforth Village-Toronto, 66	416-469-1111	toronto@birthright.org	<a href="http://www.birthright.org" target="_b...	None					
DESCRIPTION_SERVICE	APPLICATION	LANGUAGES	ACCESSIBILITY	HOURS	LEGAL_STATUS	DATE_UPDATED	ADDRESS_POINT_ID	X	Y	LONGITUDE	LATITUDE
University campus integrated health service\nw...	Call or drop-in * no referral required	English	Unknown	Mon, Wed-Fri 9am-4:45pm * Tue 10am-4:45pm	(50) Non Profit	2016-01-12T05:00:00	363859	None	None	-79.19096	43.78798
Sexual health clinic * health professionals te...	Drop-in * no referral required	English	Fully Accessible	Mon, Thu 2pm-6:30pm * Wed 9:30am-3:30pm (close...	(50) Non Profit	2015-05-20T04:00:00	3841975	None	None	-79.39359	43.68682
College community medical clinic * health prof...	Call or drop-in * doctors are available only b...	English	None	Mon-Fri 9am-4:30pm	(50) Non Profit	2015-02-25T05:00:00	515776	None	None	-79.34899	43.79579
Sexual health clinic * information and counsel...	Call for appointment	English	Wheelchair accessible - call for details ; Lot...	Office -- Mon-Fri 10 am-5 pm * <b>clinics</b>...	(50) Non Profit ; (51) Registered Charity	2016-02-11T05:00:00	5738239	None	None	-79.40878	43.72372
Crisis pregnancy services offering assistance ...	Call for appointment	English ; French - appointment required ; Fili...	Wheelchair accessible - call for details ; Rea...	Mon 9:30 am-4:30 pm; Tue 9:30 am-1:30 pm, 6 pm...	(50) Non Profit ; (51) Registered Charity	2016-01-21T05:00:00	787730	None	None	-79.32464	43.68655
ADDRESS_FULL	MUNICIPALITY	POSTAL_CODE									
1365 Military Trl	Scarborough	M1C 1A3									
5100 Yonge St	North York	M2N 5V7									
1750 Finch Ave E	North York	M2J 2X5									
960 Lawrence Ave W	North York	M6A 3B5									
777 Coxwell Ave	former Toronto	M4C 3C6									

Data Sources:

<https://www.latlong.net/convert-address-to-lat-long.html>  
<https://open.toronto.ca/dataset/school-locations-all-types/>

<https://open.toronto.ca/dataset/wellbeing-youth-sexual-health-services/>  
<https://torontoglobal.ca/Discover-Toronto-region/Toronto-region-quick-facts>  
<https://www.toronto.ca/business-economy/industry-sector-support/education/>