

Applied Data Science Capstone Project Week 3

June 1, 2021

Week Three Assignments - All questions are answered in this notebook.

```
[1]: # Import required libraries.
import pandas as pd # Library for data analysis
import numpy as np
import json # Library to handle JSON files
import requests # Library to handle requests
from pandas.io.json import json_normalize # Transform JSON file into a pandas
↳ dataframe
import matplotlib.pyplot as plt
import matplotlib.cm as cm
import matplotlib.colors as colors # Matplotlib and associated plotting modules
from sklearn.cluster import KMeans # Import k-means for clustering.
import bs4 as bs
from bs4 import BeautifulSoup # Website scraping libraries.
from geopy.geocoders import Nominatim # Convert an address into latitude and
↳ longitude values.
from shapely.geometry import Point
import geopandas as gpd
import lxml.html as lh
import folium

[2]: # GET request
url = "https://en.wikipedia.org/w/index.php?
↳ title=List_of_postal_codes_of_Canada:_M&oldid=1012118802" # Use old link
extracting_data = requests.get(url).text
wiki_data = BeautifulSoup(extracting_data, 'lxml')

[3]: wiki_data

[3]: <!DOCTYPE html>
<html class="client-nojs" dir="ltr" lang="en">
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<meta charset="utf-8"/>
<title>List of postal codes of Canada: M - Wikipedia</title>
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"ext.centralNotice.geoIP","ext.centralNotice.startUp","ext.growthExperiments.Sug
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});});</script>
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tyles%7Cskins.vector.styles.legacy%7Cwikibase.client.init&only=styles&sk
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<script async="" src="/w/load.php?lang=en&modules=startup&only=scripts&a

```

```

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base"></div>
<div class="noprint" id="mw-head-base"></div>
<div class="mw-body" id="content" role="main">
<a id="top"></a>
<div id="siteNotice"><!-- CentralNotice --></div>
<div class="mw-indicators">
</div>
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M</h1>
<div class="vector-body" id="bodyContent">
<div class="noprint" id="siteSub">From Wikipedia, the free encyclopedia</div>
<div id="contentSub"><div class="mw-revision warningbox"><div id="mw-revision-
info"><p><b>This is an <a href="/wiki/Help:Page_history" title="Help:Page
history">old revision</a> of this page, as edited by <span id="mw-revision-
name"><a class="mw-userlink" href="/wiki/User:Eddyholland"
title="User:Eddyholland"><bdi>Eddyholland</bdi></a> <span class="mw-
usertoollinks">(<a class="mw-usertoollinks-talk"

```

[talk](/wiki/User_talk:Eddyholland "User talk:Eddyholland") | [contribs](/wiki/Special:Contributions/Eddyholland "Special:Contributions/Eddyholland")

at 18:25, 14 March 2021(Undid revision 1012023397 by Denelson83 (talk) because it broke many DataSci student's ipython call to this page, which is being referenced or needed, by the Coursera course : Data Science Capstone). The present address (URL) is a [Revision as of 18:25, 14 March 2021 by \[<bdi>Eddyholland</bdi>
 talk | contribs\]\(/wiki/User:Eddyholland "User:Eddyholland"\)

\(diff\)
 + Previous revision
 | Latest revision
 \(diff\)
 | Newer revision -
 \(diff\)

</div>

</div>

Jump to navigation
 Jump to search](https://en.wikipedia.org/wiki/List_of_postal_codes_of_Canada:_M "Help:Permanent link")

lang="en"><div class="mw-parser-output"><div class="shortdescription nomobile noexcerpt noprint searchaux" style="display:none">Wikipedia list article</div><p>This is a list of postal codes in Canada where the first letter is M. Postal codes beginning with M are located within the city of Toronto in the province of Ontario. Only the first three characters are listed, corresponding to the Forward Sortation Area.

</p><p>Canada Post provides a free postal code look-up tool on its website,^{[1]} via its applications for such smartphones as the iPhone and BlackBerry,^{[2]} and sells hard-copy directories and CD-ROMs. Many vendors also sell validation tools, which allow customers to properly match addresses and postal codes. Hard-copy directories can also be consulted in all post offices, and some libraries.

</p>

Toronto - 103 FSAs</h2>

<p>Note: There are no rural FSAs in Toronto, hence no postal codes should start with M0. However, the postal code MOR 8T0 is assigned to an Amazon warehouse in Mississauga, and the postal code MOR 2A2 is used for the Gateway postal facility in Mississauga, suggesting that Canada Post may have reserved the M0 FSA for high volume addresses.

</p>

Postal Code	Borough	Neighbourhood
M1A		
Not assigned		
Not assigned		

M2A	Not assigned
	Not assigned
M3A	North York Parkwoods
M4A	North York Victoria Village
M5A	Downtown Toronto Regent Park, Harbourfront
M6A	North York Lawrence Manor, Lawrence Heights
M7A	Downtown Toronto Queen's Park, Ontario Provincial Government
M8A	Not assigned

<td>Not assigned
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<tr>
<td>M9A
</td>
<td>Etobicoke
</td>
<td>Islington Avenue, Humber Valley Village
</td></tr>
<tr>
<td>M1B
</td>
<td>Scarborough
</td>
<td>Malvern, Rouge
</td></tr>
<tr>
<td>M2B
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<td>Not assigned
</td>
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<tr>
<td>M3B
</td>
<td>North York
</td>
<td>Don Mills
</td></tr>
<tr>
<td>M4B
</td>
<td>East York
</td>
<td>Parkview Hill, Woodbine Gardens
</td></tr>
<tr>
<td>M5B
</td>
<td>Downtown Toronto
</td>
<td>Garden District, Ryerson
</td></tr>
<tr>
<td>M6B
</td>

<td>North York
</td>
<td>Glencairn
</td></tr>
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<tr>
<td>M9B
</td>
<td>Etobicoke
</td>
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</td>
<td>Rouge Hill, Port Union, Highland Creek
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<td>Downtown Toronto
</td>
<td>St. James Town
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</td>
<td>Humewood-Cedarvale
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<td>M9C
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<td>Etobicoke
</td>
<td>Eringate, Bloordale Gardens, Old Burnhamthorpe, Markland Wood
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<td>M1E
</td>
<td>Scarborough
</td>
<td>Guildwood, Morningside, West Hill

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<td>Berczy Park
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<td>Leaside
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<td>Central Bay Street
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<tr>
<td>M6G

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	Downtown Toronto
	Christie
	M7G
	Not assigned
	Not assigned
	M8G
	Not assigned
	Not assigned
	M9G
	Not assigned
	Not assigned
	M1H
	Scarborough
	Cedarbrae
	M2H
	North York
	Hillcrest Village
	M3H
	North York
	Bathurst Manor, Wilson Heights, Downsview North

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</td>
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</td>
<td>Downsview

M4L
East Toronto
India Bazaar, The Beaches West
M5L
Downtown Toronto
Commerce Court, Victoria Hotel
M6L
North York
North Park, Maple Leaf Park, Upwood Park
M7L
Not assigned
Not assigned
M8L
Not assigned
Not assigned
M9L
North York
Humber Summit
M1M
Scarborough

	Cliffside, Cliffcrest, Scarborough Village West
M2M	North York
	Willowdale, Newtonbrook
M3M	North York
	Downsview
M4M	East Toronto
	Studio District
M5M	North York
	Bedford Park, Lawrence Manor East
M6M	York
	Del Ray, Mount Dennis, Keelsdale and Silverthorn
M7M	Not assigned
	Not assigned
M8M	

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<td>Not assigned
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</td>
<td>Westmount
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</td>
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<td>Scarborough
</td>
<td>Agincourt
</td></tr>
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<td>M4S
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<td>Davisville
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<tr>
<td>M5S
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<td>Downtown Toronto
</td>
<td>University of Toronto, Harbord

M6S	West Toronto
	Runnymede, Swansea
M7S	Not assigned
	Not assigned
M8S	Not assigned
	Not assigned
M9S	Not assigned
	Not assigned
M1T	Scarborough
	Clarks Corners, Tam O'Shanter, Sullivan
M2T	Not assigned
	Not assigned
M3T	Not assigned


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<tr>
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<tr>
<td>M9T
</td>
<td>Not assigned
</td>
<td>Not assigned
</td></tr>
<tr>
<td>M1V

```

Scarborough	
Milliken, Agincourt North, Steeles East, L'Amoreaux East	
M2V	Not assigned
M3V	Not assigned
M4V	Central Toronto Summerhill West, Rathnelly, South Hill, Forest Hill SE, Deer Park
M5V	Downtown Toronto CN Tower, King and Spadina, Railway Lands, Harbourfront West, Bathurst Quay, South Niagara, Island airport
M6V	Not assigned
M7V	Not assigned

```

</td></tr>
<tr>
<td>M8V
</td>
<td>Etobicoke
</td>
<td>New Toronto, Mimico South, Humber Bay Shores
</td></tr>
<tr>
<td>M9V
</td>
<td>Etobicoke
</td>
<td>South Steeles, Silverstone, Humbergate, Jamestown, Mount Olive, Beaumont
Heights, Thistletown, Albion Gardens
</td></tr>
<tr>
<td>M1W
</td>
<td>Scarborough
</td>
<td>Steeles West, L'Amoreaux West
</td></tr>
<tr>
<td>M2W
</td>
<td>Not assigned
</td>
<td>Not assigned
</td></tr>
<tr>
<td>M3W
</td>
<td>Not assigned
</td>
<td>Not assigned
</td></tr>
<tr>
<td>M4W
</td>
<td>Downtown Toronto
</td>
<td>Rosedale
</td></tr>
<tr>
<td>M5W
</td>

```

<td>Downtown Toronto
</td>
<td>Stn A PO Boxes
</td></tr>
<tr>
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<td>M7W
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</td>
<td>Not assigned
</td></tr>
<tr>
<td>M8W
</td>
<td>Etobicoke
</td>
<td>Alderwood, Long Branch
</td></tr>
<tr>
<td>M9W
</td>
<td>Etobicoke
</td>
<td>Northwest, West Humber - Clairville
</td></tr>
<tr>
<td>M1X
</td>
<td>Scarborough
</td>
<td>Upper Rouge
</td></tr>
<tr>
<td>M2X
</td>
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</td>
<td>Not assigned
</td></tr>
<tr>

<td>M3X	
</td>	
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</td>	
<td>Not assigned	
</td></tr>	
<tr>	
<td>M4X	
</td>	
<td>Downtown Toronto	
</td>	
<td>St. James Town, Cabbagetown	
</td></tr>	
<tr>	
<td>M5X	
</td>	
<td>Downtown Toronto	
</td>	
<td>First Canadian Place, Underground city	
</td></tr>	
<tr>	
<td>M6X	
</td>	
<td>Not assigned	
</td>	
<td>Not assigned	
</td></tr>	
<tr>	
<td>M7X	
</td>	
<td>Not assigned	
</td>	
<td>Not assigned	
</td></tr>	
<tr>	
<td>M8X	
</td>	
<td>Etobicoke	
</td>	
<td>The Kingsway, Montgomery Road, Old Mill North	
</td></tr>	
<tr>	
<td>M9X	
</td>	
<td>Not assigned	
</td>	
<td>Not assigned	

```

</td></tr>
<tr>
<td>M1Y
</td>
<td>Not assigned
</td>
<td>Not assigned
</td></tr>
<tr>
<td>M2Y
</td>
<td>Not assigned
</td>
<td>Not assigned
</td></tr>
<tr>
<td>M3Y
</td>
<td>Not assigned
</td>
<td>Not assigned
</td></tr>
<tr>
<td>M4Y
</td>
<td>Downtown Toronto
</td>
<td>Church and Wellesley
</td></tr>
<tr>
<td>M5Y
</td>
<td>Not assigned
</td>
<td>Not assigned
</td></tr>
<tr>
<td>M6Y
</td>
<td>Not assigned
</td>
<td>Not assigned
</td></tr>
<tr>
<td>M7Y
</td>
<td>East Toronto

```

</td>	<td>Business reply mail Processing Centre, South Central Letter Processing Plant Toronto
</td></tr>	
<tr>	
<td>M8Y	
</td>	
<td>Etobicoke	
</td>	
<td>Old Mill South, King's Mill Park, Sunnylea, Humber Bay, Mimico NE, The Queensway East, Royal York South East, Kingsway Park South East	
</td></tr>	
<tr>	
<td>M9Y	
</td>	
<td>Not assigned	
</td>	
<td>Not assigned	
</td></tr>	
<tr>	
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</td></tr>	
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<td>M2Z	
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<td>Not assigned	
</td>	
<td>Not assigned	
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<tr>	
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</td>	
<td>Not assigned	
</td></tr>	
<tr>	
<td>M4Z	
</td>	
<td>Not assigned	
</td>	
<td>Not assigned	
</td></tr>	

```

<tr>
<td>M5Z
</td>
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</td>
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</td></tr>
<tr>
<td>M6Z
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</td>
<td>Not assigned
</td></tr>
<tr>
<td>M7Z
</td>
<td>Not assigned
</td>
<td>Not assigned
</td></tr>
<tr>
<td>M8Z
</td>
<td>Etobicoke
</td>
<td>Mimico NW, The Queensway West, South of Bloor, Kingsway Park South West,
Royal York South West
</td></tr>
<tr>
<td>M9Z
</td>
<td>Not assigned
</td>
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</td></tr></tbody></table>
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id="cite_ref-statcan_3-0"><a href="#cite_note-
statcan-3">[3]</a></sup></span></h2>
<ol><li>M1B, 65,129</li>
<li>M2N, 60,124</li>
<li>M1V, 55,250</li>
<li>M9V, 55,159</li>
<li>M2J, 54,391</li></ol>
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id="Least_populated_FSAs[3]">Least populated FSAs<sup class="reference"

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>

<li id="cite_note-2"> <link href="mw-data:TemplateStyles:r999302996" rel="mw-deduplicated-inline-style"/><cite class="citation web cs1">"Mobile Apps". Canada Post. Archived from the original on 2011-05-19.</cite>

<li id="cite_note-statcan-3">^ ^{<i>a</i>} ^{<i>b</i>} <link href="mw-data:TemplateStyles:r999302996" rel="mw-deduplicated-inline-style"/><cite class="citation web cs1">"2006 Census of Population". 15 October 2008.</cite>

</div>
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<tbody><tr>
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</td>
<th class="navbox-title" style="font-size:110%">Canadian
</tr>
</tbody>
</table>

```

postal codes</a>
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</td></tr>
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</td>
<td style="text-align:center; border:1px solid #aaa;"><a
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</td>
<td style="text-align:center; border:1px solid #aaa;"><a
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</td>
<td style="text-align:center; border:1px solid #aaa;"><a
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</td>
<td colspan="3" style="text-align:center; border:1px solid #aaa;"><a
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</td>
<td colspan="5" style="text-align:center; border:1px solid #aaa;"><a
href="/wiki/Ontario" title="Ontario">ON</a>
</td>
<td style="text-align:center; border:1px solid #aaa;"><a href="/wiki/Manitoba"
title="Manitoba">MB</a>
</td>
<td style="text-align:center; border:1px solid #aaa;"><a
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</td>
<td style="text-align:center; border:1px solid #aaa;"><a href="/wiki/Alberta"
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</td>
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```

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href="/wiki/British_Columbia" title="British Columbia">BC</a>
</td>
<td style="text-align:center; border:1px solid #aaa;"><a href="/wiki/Nunavut"
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Territories">NT</a>
</td>
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</td>
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title="List of postal codes of Canada: B">B</a>
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font-size: 135%;" width="5%"><a href="/wiki/List_of_postal_codes_of_Canada:_C"
title="List of postal codes of Canada: C">C</a>
</td>
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</td>
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```

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title="List of postal codes of Canada: Y">Y</a>
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</td></tr></tbody></table>
<!--
NewPP limit report
Parsed by mw1401
Cached time: 20210531122747
Cache expiry: 1814400
Reduced expiry: false
Complications: [vary-revision-sha1]
CPU time usage: 0.181 seconds
Real time usage: 0.236 seconds
Preprocessor visited node count: 278/1000000
Post-expand include size: 10850/2097152 bytes
Template argument size: 275/2097152 bytes

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Highest expansion depth: 8/40
Expensive parser function count: 0/500
Unstrip recursion depth: 1/20
Unstrip post-expand size: 9406/5000000 bytes
Lua time usage: 0.092/10.000 seconds
Lua memory usage: 3063228/52428800 bytes
Number of Wikibase entities loaded: 0/400
-->
<!--
Transclusion expansion time report (%,ms,calls,template)
100.00% 187.412      1 -total
 52.70%  98.771      3 Template:Cite_web
 39.40%  73.839      1 Template:Short_description
 24.83%  46.534      1 Template:Pagetype
  8.35%  15.654      2 Template:Main_other
  6.62%  12.405      1 Template:SDcat
  3.16%   5.915      1 Template:Canadian_postal_codes
-->
<!-- Saved in RevisionOutputCache with key
enwiki:rcache:1012118802:dateformat=default and timestamp 20210531122747 and
revision id 1012118802.
-->
</div><noscript></noscript>
<div class="printfooter">Retrieved from "<a dir="ltr" href="https://en.wikipedia
.org/w/index.php?title=List_of_postal_codes_of_Canada:_M&oldid=1012118802">h
ttps://en.wikipedia.org/w/index.php?title=List_of_postal_codes_of_Canada:_M&
oldid=1012118802</a>"</div></div>
<div class="catlinks" data-mw="interface" id="catlinks"><div class="mw-normal-
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title="Help:Category">Categories</a>: <ul><li><a
href="/wiki/Category:Communications_in_Ontario" title="Category:Communications
in Ontario">Communications in Ontario</a></li><li><a
href="/wiki/Category:Postal_codes_in_Canada" title="Category:Postal codes in
Canada">Postal codes in Canada</a></li><li><a href="/wiki/Category:Toronto"
title="Category:Toronto">Toronto</a></li><li><a href="/wiki/Category:Ontario-
related_lists" title="Category:Ontario-related lists">Ontario-related
lists</a></li></ul></div><div class="mw-hidden-catlinks mw-hidden-cats-hidden"
id="mw-hidden-catlinks">Hidden categories: <ul><li><a
href="/wiki/Category:Articles_with_short_description" title="Category:Articles
with short description">Articles with short description</a></li><li><a
href="/wiki/Category:Short_description_is_different_from_Wikidata"
title="Category:Short description is different from Wikidata">Short description
is different from Wikidata</a></li></ul></div></div>
</div>
</div>

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<div id="mw-data-after-content">
<div class="read-more-container"></div>
</div>
<div id="mw-navigation">
<h2>Navigation menu</h2>
<div id="mw-head">
<nav aria-labelledby="p-personal-label" class="mw-portlet mw-portlet-personal
vector-user-menu-legacy vector-menu" id="p-personal" role="navigation">
<h3 class="vector-menu-heading" id="p-personal-label">
<span>Personal tools</span>
</h3>
<div class="vector-menu-content">
<ul class="vector-menu-content-list"><li id="pt-anonuserpage">Not logged
in</li><li id="pt-anontalk"><a accesskey="n" href="/wiki/Special:MyTalk"
title="Discussion about edits from this IP address [n]">Talk</a></li><li id="pt-
anoncontribs"><a accesskey="y" href="/wiki/Special:MyContributions" title="A
list of edits made from this IP address [y]">Contributions</a></li><li id="pt-
createaccount"><a href="/w/index.php?title=Special:CreateAccount&returnto=Li
st+of+postal+codes+of+Canada%3A+M&returntoquery=oldid%3D1012118802"
title="You are encouraged to create an account and log in; however, it is not
mandatory">Create account</a></li><li id="pt-login"><a accesskey="o" href="/w/in
dex.php?title=Special:UserLogin&returnto=List+of+postal+codes+of+Canada%3A+M
&returntoquery=oldid%3D1012118802" title="You're encouraged to log in;
however, it's not mandatory. [o]">Log in</a></li></ul>
</div>
</nav>
<div id="left-navigation">
<nav aria-labelledby="p-namespaces-label" class="mw-portlet mw-portlet-
namespaces vector-menu vector-menu-tabs" id="p-namespaces" role="navigation">
<h3 class="vector-menu-heading" id="p-namespaces-label">
<span>Namespaces</span>
</h3>
<div class="vector-menu-content">
<ul class="vector-menu-content-list"><li class="selected" id="ca-nstab-main"><a
accesskey="c" href="/wiki/List_of_postal_codes_of_Canada:_M" title="View the
content page [c]">Article</a></li><li id="ca-talk"><a accesskey="t"
href="/wiki/Talk:List_of_postal_codes_of_Canada:_M" rel="discussion"
title="Discuss improvements to the content page [t]">Talk</a></li></ul>
</div>
</nav>
<nav aria-labelledby="p-variants-label" class="mw-portlet mw-portlet-variants
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role="navigation">
<input aria-labelledby="p-variants-label" class="vector-menu-checkbox"
type="checkbox"/>
<h3 class="vector-menu-heading" id="p-variants-label">
<span>Variants</span>

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</h3>
<div class="vector-menu-content">
<ul class="vector-menu-content-list"></ul>
</div>
</nav>
</div>
<div id="right-navigation">
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menu vector-menu-tabs" id="p-views" role="navigation">
<h3 class="vector-menu-heading" id="p-views-label">
<span>Views</span>
</h3>
<div class="vector-menu-content">
<ul class="vector-menu-content-list"><li class="selected" id="ca-view"><a
href="/wiki/List_of_postal_codes_of_Canada:_M">Read</a></li><li id="ca-
viewsource"><a accesskey="e" href="/w/index.php?title=List_of_postal_codes_of_Ca
nada:_M&action=edit&oldid=1012118802" title="This page is protected.
You can view its source [e]">View source</a></li><li id="ca-history"><a
accesskey="h"
href="/w/index.php?title=List_of_postal_codes_of_Canada:_M&action=history"
title="Past revisions of this page [h]">View history</a></li></ul>
</div>
</nav>
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<input aria-labelledby="p-cactions-label" class="vector-menu-checkbox"
type="checkbox"/>
<h3 class="vector-menu-heading" id="p-cactions-label">
<span>More</span>
</h3>
<div class="vector-menu-content">
<ul class="vector-menu-content-list"></ul>
</div>
</nav>
<div id="p-search" role="search">
<h3>
<label for="searchInput">Search</label>
</h3>
<form action="/w/index.php" id="searchform">
<div data-search-loc="header-navigation" id="simpleSearch">
<input accesskey="f" autocapitalize="sentences" id="searchInput" name="search"
placeholder="Search Wikipedia" title="Search Wikipedia [f]" type="search"/>
<input name="title" type="hidden" value="Special:Search"/>
<input class="searchButton mw-fallbackSearchButton" id="mw-searchButton"
name="fulltext" title="Search Wikipedia for this text" type="submit"
value="Search"/>

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<input class="searchButton" id="searchButton" name="go" title="Go to a page with
this exact name if it exists" type="submit" value="Go"/>
</div>
</form>
</div>
</div>
</div>
<div id="mw-panel">
<div id="p-logo" role="banner">
<a class="mw-wiki-logo" href="/wiki/Main_Page" title="Visit the main page"></a>
</div>
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navigation vector-menu vector-menu-portal portal" id="p-navigation"
role="navigation">
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<span>Navigation</span>
</h3>
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<ul class="vector-menu-content-list"><li id="n-mainpage-description"><a
accesskey="z" href="/wiki/Main_Page" title="Visit the main page [z]">Main
page</a></li><li id="n-contents"><a href="/wiki/Wikipedia:Contents"
title="Guides to browsing Wikipedia">Contents</a></li><li
id="n-currentevents"><a href="/wiki/Portal:Current_events" title="Articles
related to current events">Current events</a></li><li id="n-randompage"><a
accesskey="x" href="/wiki/Special:Random" title="Visit a randomly selected
article [x]">Random article</a></li><li id="n-aboutsite"><a
href="/wiki/Wikipedia:About" title="Learn about Wikipedia and how it
works">About Wikipedia</a></li><li id="n-contactpage"><a
href="//en.wikipedia.org/wiki/Wikipedia:Contact_us" title="How to contact
Wikipedia">Contact us</a></li><li id="n-sitesupport"><a href="https://donate.wik
imedia.org/wiki/Special:FundraiserRedirector?utm_source=donate&utm_medium=si
debar&utm_campaign=C13_en.wikipedia.org&uselang=en" title="Support us by
donating to the Wikimedia Foundation">Donate</a></li></ul>
</div>
</nav>
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interaction vector-menu vector-menu-portal portal" id="p-interaction"
role="navigation">
<h3 class="vector-menu-heading" id="p-interaction-label">
<span>Contribute</span>
</h3>
<div class="vector-menu-content">
<ul class="vector-menu-content-list"><li id="n-help"><a
href="/wiki/Help:Contents" title="Guidance on how to use and edit
Wikipedia">Help</a></li><li id="n-introduction"><a
href="/wiki/Help:Introduction" title="Learn how to edit Wikipedia">Learn to
edit</a></li><li id="n-portal"><a href="/wiki/Wikipedia:Community_portal"

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title="The hub for editors">Community portal</a></li><li id="n-recentchanges"><a
accesskey="r" href="/wiki/Special:RecentChanges" title="A list of recent changes
to Wikipedia [r]">Recent changes</a></li><li id="n-upload"><a
href="/wiki/Wikipedia:File_Upload_Wizard" title="Add images or other media for
use on Wikipedia">Upload file</a></li></ul>
</div>
</nav>
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<span>Tools</span>
</h3>
<div class="vector-menu-content">
<ul class="vector-menu-content-list"><li id="t-whatlinkshere"><a accesskey="j"
href="/wiki/Special:WhatLinksHere/List_of_postal_codes_of_Canada:_M" title="List
of all English Wikipedia pages containing links to this page [j]">What links
here</a></li><li id="t-recentchangeslinked"><a accesskey="k"
href="/wiki/Special:RecentChangesLinked/List_of_postal_codes_of_Canada:_M"
rel="nofollow" title="Recent changes in pages linked from this page [k]">Related
changes</a></li><li id="t-upload"><a accesskey="u"
href="/wiki/Wikipedia:File_Upload_Wizard" title="Upload files [u]">Upload
file</a></li><li id="t-specialpages"><a accesskey="q"
href="/wiki/Special:SpecialPages" title="A list of all special pages
[q]">Special pages</a></li><li id="t-permalink"><a
href="/w/index.php?title=List_of_postal_codes_of_Canada:_M&oldid=1012118802"
title="Permanent link to this revision of this page">Permanent link</a></li><li
id="t-info"><a
href="/w/index.php?title=List_of_postal_codes_of_Canada:_M&action=info"
title="More information about this page">Page information</a></li><li
id="t-cite"><a href="/w/index.php?title=Special:CiteThisPage&page=List_of_po
stal_codes_of_Canada%3A_M&id=1012118802&wpFormIdentifier=titleform"
title="Information on how to cite this page">Cite this page</a></li><li
id="t-wikibase"><a accesskey="g"
href="https://www.wikidata.org/wiki/Special:EntityPage/Q3248240"
title="Structured data on this page hosted by Wikidata [g]">Wikidata
item</a></li></ul>
</div>
</nav>
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print_export" role="navigation">
<h3 class="vector-menu-heading" id="p-coll-print_export-label">
<span>Print/export</span>
</h3>
<div class="vector-menu-content">
<ul class="vector-menu-content-list"><li id="coll-download-as-rl"><a href="/w/in
dex.php?title=Special:DownloadAsPdf&page=List_of_postal_codes_of_Canada%3A_M

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&action=show-download-screen" title="Download this page as a PDF
file">Download as PDF</a></li><li id="t-print"><a accesskey="p"
href="/w/index.php?title=List_of_postal_codes_of_Canada:_M&printable=yes"
title="Printable version of this page [p]">Printable version</a></li></ul>
</div>
</nav>
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menu vector-menu-portal portal" id="p-lang" role="navigation">
<h3 class="vector-menu-heading" id="p-lang-label">
<span>Languages</span>
</h3>
<div class="vector-menu-content">
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te_des_codes_postaux_canadiens_d%C3%A9butant_par_M" hreflang="fr" lang="fr"
title="Liste des codes postaux canadiens débutant par M -
French">Français</a></li></ul>
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href="https://www.wikidata.org/wiki/Special:EntityPage/Q3248240#sitelinks-
wikipedia" title="Edit interlanguage links">Edit links</a></span></div>
</div>
</nav>
</div>
</div>
<div class="mw-footer" id="footer" role="contentinfo">
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<li id="footer-info-lastmod"> This page was last edited on 14 March 2021, at
18:25<span class="anonymous-show"> (UTC)</span>.</li>
<li id="footer-info-copyright"><span class="nowraplinks">This version of the
page has been <a href="https://en.wikipedia.org/wiki/Wikipedia:Page_history"
title="Wikipedia:Page history">revised</a>. Besides normal editing, the reason
for revision may have been that this version contains factual inaccuracies,
vandalism, or material not compatible with the <a href="https://en.wikipedia.org
/wiki/Wikipedia:Text_of_Creative_Commons_Attribution-
ShareAlike_3.0_Unported_License">Creative Commons Attribution-ShareAlike
License</a>.</span></li>
</ul>
<ul id="footer-places">
<li id="footer-places-privacy"><a class="extiw"
href="https://foundation.wikimedia.org/wiki/Privacy_policy" title="wmf:Privacy
policy">Privacy policy</a></li>
<li id="footer-places-about"><a href="/wiki/Wikipedia:About"
title="Wikipedia:About">About Wikipedia</a></li>
<li id="footer-places-disclaimer"><a href="/wiki/Wikipedia:General_disclaimer"
title="Wikipedia:General disclaimer">Disclaimers</a></li>
<li id="footer-places-contact"><a

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href="//en.wikipedia.org/wiki/Wikipedia:Contact_us">Contact Wikipedia</a></li>
<li id="footer-places-mobileview"><a class="noprint stopMobileRedirectToggle" href="//en.m.wikipedia.org/w/index.php?title=List_of_postal_codes_of_Canada:_M&oldid=1012118802&mobileaction=toggle_view_mobile">Mobile view</a></li>
<li id="footer-places-developers"><a href="https://www.mediawiki.org/wiki/Special:MyLanguage/How_to_contribute">Developers</a></li>
<li id="footer-places-statslink"><a href="https://stats.wikimedia.org/#/en.wikipedia.org">Statistics</a></li>
<li id="footer-places-cookiestatement"><a href="https://foundation.wikimedia.org/wiki/Cookie_statement">Cookie statement</a></li>
</ul>
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<li id="footer-poweredbyico"><a href="https://www.mediawiki.org/"></a></li>
</ul>
</footer>
<script>(RLQ=window.RLQ||[]).push(function(){mw.config.set({"wgPageParseReport":{"limitreport":{"cputime":"0.181","walltime":"0.236","ppvisitednodes":{"value":278,"limit":1000000},"postexpandincludesize":{"value":10850,"limit":2097152},"templateargumentsize":{"value":275,"limit":2097152},"expansiondepth":{"value":8,"limit":40},"expensivefunctioncount":{"value":0,"limit":500},"unstrip-depth":{"value":1,"limit":20},"unstrip-size":{"value":9406,"limit":5000000},"entityaccesscount":{"value":0,"limit":400},"timingprofile":["100.00% 187.412 1 -total"," 52.70% 98.771 3 Template:Cite_web"," 39.40% 73.839 1 Template:Short_description"," 24.83% 46.534 1 Template:Pagetype"," 8.35% 15.654 2 Template:Main_other"," 6.62% 12.405 1 Template:SDcat"," 3.16% 5.915 1 Template:Canadian_postal_codes"]},"scribunto":{"limitreport-timeusage":{"value":"0.092","limit":"10.000"},"limitreport-memusage":{"value":3063228,"limit":52428800},"cachereport":{"origin":"mw1401","timestamp":"20210531122747","ttl":1814400,"transientcontent":false}}}}));</script>
<script type="application/ld+json">{"@context":"https://schema.org","@type":"Article","name":"List of postal codes of Canada: M","url":"https://en.wikipedia.org/wiki/List_of_postal_codes_of_Canada:_M","sameAs":"http://www.wikidata.org/entity/Q3248240","mainEntity":"http://www.wikidata.org/entity/Q3248240","author":{"@type":"Organization","name":"Contributors to Wikimedia projects"},"publisher":{"@type":"Organization","name":"Wikimedia Foundation, Inc."},"logo":{"@type":"ImageObject","url":"https://www.wikimedia.org/static/ima

```

```
ges\wmf-hor-googpub.png"}}, "datePublished": "2004-03-20T10:02:13Z", "dateModified": "2021-03-14T18:25:10Z", "headline": "Wikimedia list article"></script>
<script>(RLQ=window.RLQ||[]).push(function(){mw.config.set({"wgBackendResponseTime":160,"wgHostname":"mw1268"});});</script>
</body></html>
```

```
[4]: column_names = ['Postalcode', 'Borough', 'Neighborhood']
toronto = pd.DataFrame(columns = column_names)

content = wiki_data.find('div', class_='mw-parser-output')
table = content.table.tbody
postcode = 0
borough = 0
neighborhood = 0

for tr in table.find_all('tr'):
    i = 0
    for td in tr.find_all('td'):
        if i == 0:
            postcode = td.text
            i = i + 1
        elif i == 1:
            borough = td.text
            i = i + 1
        elif i == 2:
            neighborhood = td.text.strip(' ').replace(']', '')
            toronto = toronto.append({'Postalcode': postcode, 'Borough': borough,
            ↪ 'Neighborhood': neighborhood}, ignore_index=True)
```

```
[5]: # clean dataframe
toronto = toronto[toronto.Borough != 'Not assigned']
toronto = toronto[toronto.Borough != 0]
toronto.reset_index(drop = True, inplace = True)
i = 0
for i in range(0, toronto.shape[0]):
    if toronto.iloc[i][2] == 'Not assigned':
        toronto.iloc[i][2] = toronto.iloc[i][1]
    i = i+1
```

```
[6]: df = toronto.groupby(['Postalcode', 'Borough'])['Neighborhood'].apply(' '.join).
    ↪ reset_index()
df.describe()
```

```
[6]:
```

	Postalcode	Borough	Neighborhood
count	180	180	180
unique	180	12	100
top	M9B\n	Not assigned\n	Not assigned\n

freq

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```
[7]: # Getting the data from url
url = "https://en.wikipedia.org/w/index.php?
      ↪title=List_of_postal_codes_of_Canada:_M&oldid=1012118802"
res = requests.get(url)
soup = bs.BeautifulSoup(res.content, 'lxml')
table = soup.find_all('table')[0]
df = pd.read_html(str(table))
data = pd.read_json(df[0].to_json(orient='records'))
```

```
[8]: data.head()
```

```
[8]:   Postal Code      Borough      Neighbourhood
0      M1A      Not assigned      Not assigned
1      M2A      Not assigned      Not assigned
2      M3A      North York      Parkwoods
3      M4A      North York      Victoria Village
4      M5A  Downtown Toronto  Regent Park, Harbourfront
```

```
[9]: # Choosing only data where field Borough doesn't have not assigned value
raw_data_selected = data[data['Borough'] != 'Not assigned']
# Grouping Data
raw_data_selected = raw_data_selected.groupby(['Borough', 'Postal Code'],
      ↪as_index=False).agg(', '.join)
# Check dataframe
raw_data_selected.head()
```

```
[9]:   Borough Postal Code      Neighbourhood
0  Central Toronto      M4N      Lawrence Park
1  Central Toronto      M4P      Davisville North
2  Central Toronto      M4R  North Toronto West, Lawrence Park
3  Central Toronto      M4S      Davisville
4  Central Toronto      M4T      Moore Park, Summerhill East
```

```
[10]: # Replacing values in Neighbourhood field with Borough where Neighbourhood is
      ↪not assigned
raw_data_selected['Neighbourhood'] = np.
      ↪where(raw_data_selected['Neighbourhood'] == 'Not assigned',
      ↪raw_data_selected['Borough'], raw_data_selected['Neighbourhood'])
# Shape of Data
raw_data_selected.shape
```

```
[10]: (103, 3)
```

```
[11]: column_titles = ['Postal Code', 'Borough', 'Neighbourhood']
df = raw_data_selected[column_titles]
df.head()
```

```
[11]:   Postal Code      Borough      Neighbourhood
0      M4N  Central Toronto      Lawrence Park
1      M4P  Central Toronto      Davisville North
2      M4R  Central Toronto  North Toronto West, Lawrence Park
3      M4S  Central Toronto      Davisville
4      M4T  Central Toronto      Moore Park, Summerhill East
```

```
[12]: df.shape
```

```
[12]: (103, 3)
```

```
[13]: geospatial_url = "https://cocl.us/Geospatial_data"
geospatial_data = pd.read_csv(geospatial_url)
geospatial_data.head()
```

```
[13]:   Postal Code  Latitude  Longitude
0      M1B  43.806686  -79.194353
1      M1C  43.784535  -79.160497
2      M1E  43.763573  -79.188711
3      M1G  43.770992  -79.216917
4      M1H  43.773136  -79.239476
```

```
[14]: # Merging dataframes
merged_data = pd.merge(df, geospatial_data, on='Postal Code')
merged_data.head()
```

```
[14]:   Postal Code      Borough      Neighbourhood  Latitude \
0      M4N  Central Toronto      Lawrence Park  43.728020
1      M4P  Central Toronto      Davisville North  43.712751
2      M4R  Central Toronto  North Toronto West, Lawrence Park  43.715383
3      M4S  Central Toronto      Davisville  43.704324
4      M4T  Central Toronto      Moore Park, Summerhill East  43.689574

      Longitude
0 -79.388790
1 -79.390197
2 -79.405678
3 -79.388790
4 -79.383160
```

```
[15]: merged_data['Coordinates'] = list(zip(merged_data['Latitude'],
↪merged_data['Longitude']))
merged_data.head()
```

```
[15]:
```

	Postal Code	Borough	Neighbourhood	Latitude \
0	M4N	Central Toronto	Lawrence Park	43.728020
1	M4P	Central Toronto	Davisville North	43.712751
2	M4R	Central Toronto	North Toronto West, Lawrence Park	43.715383
3	M4S	Central Toronto	Davisville	43.704324
4	M4T	Central Toronto	Moore Park, Summerhill East	43.689574

	Longitude	Coordinates
0	-79.388790	(43.7280205, -79.3887901)
1	-79.390197	(43.7127511, -79.3901975)
2	-79.405678	(43.7153834, -79.4056784)
3	-79.388790	(43.7043244, -79.3887901)
4	-79.383160	(43.6895743, -79.3831599)

```
[18]: merged_data['Coordinates'] = merged_data['Coordinates'].apply(Point)
gdf = gpd.GeoDataFrame(merged_data, geometry='Coordinates')
gdf.head()
```

```
[18]:
```

	Postal Code	Borough	Neighbourhood	Latitude \
0	M4N	Central Toronto	Lawrence Park	43.728020
1	M4P	Central Toronto	Davisville North	43.712751
2	M4R	Central Toronto	North Toronto West, Lawrence Park	43.715383
3	M4S	Central Toronto	Davisville	43.704324
4	M4T	Central Toronto	Moore Park, Summerhill East	43.689574

	Longitude	Coordinates
0	-79.388790	POINT (43.72802 -79.38879)
1	-79.390197	POINT (43.71275 -79.39020)
2	-79.405678	POINT (43.71538 -79.40568)
3	-79.388790	POINT (43.70432 -79.38879)
4	-79.383160	POINT (43.68957 -79.38316)

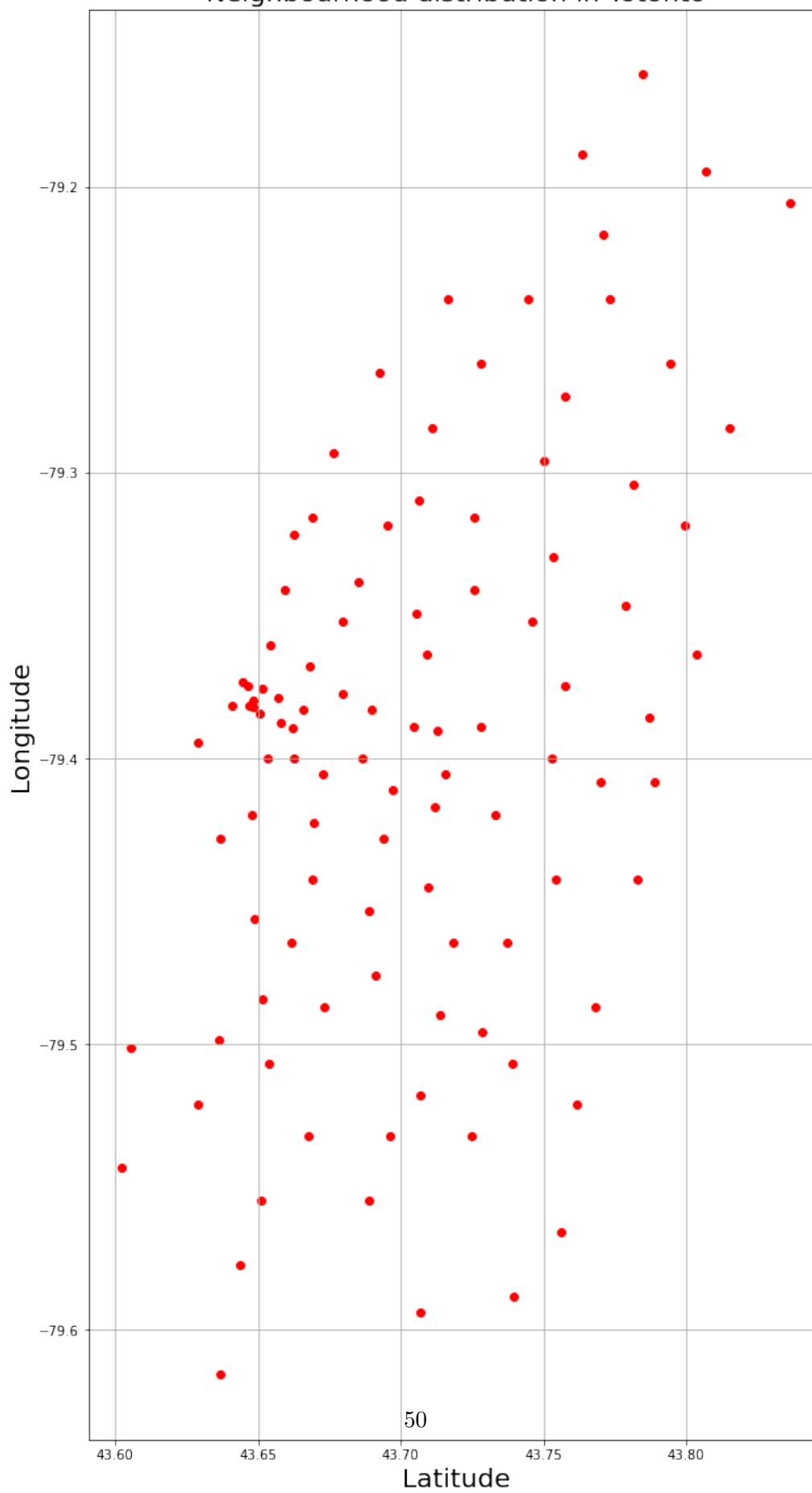
```
[27]: # set up map

cities = gpd.read_file(gpd.datasets.get_path('naturalearth_cities'))
ax = cities[cities.name == "Toronto"].plot(
    color='green', edgecolor='black', figsize=(20,20))
# plot and show
gdf.plot(ax=ax, color='red')
plt.xlabel('Latitude', fontsize = 20)
plt.ylabel('Longitude', fontsize = 20)
plt.title('Neighbourhood distribution in Totonto', fontsize = 20)
plt.grid()
plt.show()
```

/home/roe/anaconda3/envs/ai/lib/python3.8/site-packages/geopandas/plotting.py:678: UserWarning: The GeoDataFrame you are


```
attempting to plot is empty. Nothing has been displayed.  
warnings.warn(
```

Neighbourhood distribution in Totonto



[]: