Toronto

May 6, 2019

```
In [6]: from bs4 import BeautifulSoup
               import requests
In [7]: html="https://en.wikipedia.org/wiki/List of postal codes of Canada: M"
In [8]: page response = requests.get(html, timeout=5)
               # here, we fetch the content from the url, using the requests library
               page content = BeautifulSoup(page response.content, "html.parser")
               #we use the html parser to parse the url content and store it in a variable.
               page content
Out[8]: <!DOCTYPE html>
               <a href="html class="client-nojs" dir="ltr" lang="en">
               <head>
                <meta charset="utf-8"/>
               <title>List of postal codes of Canada: M - Wikipedia</title>
                <script>document.documentElement.className = document.documentElement.className.replace( /(^{\ })
               });RLPAGEMODULES=["ext.cite.ux-enhancements", "site", "mediawiki.page.startup", "mediawiki.page.read
               <link href="/w/load.php?lang=en&modules=ext.3d.styles%7Cext.cite.styles%7Cext.uls.interlanguage
               <\!\!\mathrm{script\ async=""\ src="/w/load.php?lang=en\&amp;modules=startup\&amp;only=scripts\&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vectority=scripts&amp;skin=vector
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               < link href="//creativecommons.org/licenses/by-sa/3.0/" rel="license"/>
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<div class="noprint" id="mw-head-base"></div>
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<div class="mw-indicators mw-body-content">
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<div id="contentSub"></div>
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<a class="mw-jump-link" href="#mw-head">Jump to navigation</a>
<a class="mw-jump-link" href="#p-search">Jump to search</a>
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<!--
NewPP limit report
Parsed by mw1241
```

Cached time: 20190423143741

Cache expiry: 2592000 Dynamic content: false

CPU time usage: 0.240 seconds Real time usage: 0.276 seconds

```
Preprocessor visited node count: 575/1000000
Preprocessor generated node count: 0/1500000
Postexpand include size: 10232/2097152 bytes
Template argument size: 13/2097152 bytes
Highest expansion depth: 4/40
Expensive parser function count: 0/500
Unstrip recursion depth: 1/20
Unstrip postexpand size: 9025/5000000 bytes
Number of Wikibase entities loaded: 0/400
Lua time usage: 0.066/10.000 seconds
Lua memory usage: 1.71 MB/50 MB
-->
<!--
Transclusion expansion time report (%,ms,calls,template)
100.00\% 123.545
                                        1 -total
 80.77%
                  99.782
                                       3 Template:Cite web
  4.86\%
                   5.999
                                      1 Template:Col-2
                                      1 Template:Canadian postal codes
  4.26\%
                   5.262
  2.71\%
                   3.342
                                      1 Template:Col-break
  2.06\%
                   2.544
                                      2 Template:Col-end
  2.00\%
                   2.470
                                      1 Template: Col-begin
-->
<!-- Saved in parser cache with key enwiki:pcache:idhash:539066-0!canonical and timestamp 2019042314374</p>

<noscript><img alt="" height="1" src="//en.wikipedia.org/wiki/Special:CentralAutoLogin/start</li>

<div class="printfooter">Retrieved from "<a dir="ltr" href="https://en.wikipedia.org/w/index.php?title")</pre>
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<div class="visualClear"></div>
</div>
</div>
<div id="mw-navigation">
<h2>Navigation menu</h2>
<div id="mw-head">
<div aria-labelledby="p-personal-label" id="p-personal" role="navigation">
<h3 id="p-personal-label">Personal tools</h3>
<ul>
id="pt-anonuserpage">Not logged inid="pt-anontalk"><a accesskey="n" href="/wiki/Spec</li>
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<h3 id="p-namespaces-label">Namespaces</h3>
<ul>
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<div aria-labelledby="p-variants-label" class="vectorMenu emptyPortlet" id="p-variants" role="navigation")</pre>
<input aria-labelledby="p-variants-label" class="vectorMenuCheckbox" type="checkbox"/>
<h3 id="p-variants-label">
<span>Variants</span>
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</h3>
</div>
</div>
<div id="right-navigation">
<div aria-labelledby="p-views-label" class="vectorTabs" id="p-views" role="navigation">
<h3 id="p-views-label">Views</h3>
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</div>
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<input aria-labelledby="p-cactions-label" class="vectorMenuCheckbox" type="checkbox"/>
<h3 id="p-cactions-label"><span>More</span></h3>
<ul class="menu">
</div>
<div id="p-search" role="search">
<label for="searchInput">Search</label>
<form action="/w/index.php" id="searchform">
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<input accesskey="f" id="searchInput" name="search" placeholder="Search Wikipedia" title="Search W
</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 ma</pre>
<div aria-labelledby="p-navigation-label" class="portal" id="p-navigation" role="navigation">
<h3 id="p-navigation-label">Navigation</h3>
<div class="body">
id="n-mainpage-description"><a accesskey="z" href="/wiki/Main Page" title="Visit the main page</p>
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</div>
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<h3 id="p-interaction-label">Interaction</h3>
<div class="body">
<ul>
id="n-help"><a href="/wiki/Help:Contents" title="Guidance on how to use and edit Wikipedia">He
</div>
</div>
<div aria-labelledby="p-tb-label" class="portal" id="p-tb" role="navigation">
<h3 id="p-tb-label">Tools</h3>
<div class="body">
<ul>
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</div>
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<h3 id="p-coll-print export-label">Print/export</h3>
<div class="body">
<ul>
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</div>
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additional terms may apply. By using this site, you agree to the <a href="//foundation.wikimedia.org/wik
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    M2A 
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 M1Y 
Not assigned
Not assigned
<tr>
 M2Y 
Not assigned
Not assigned
<tr>
 M3Y 
Not assigned
Not assigned
<tr>
 M4Y 
<a href="/wiki/Downtown Toronto" title="Downtown Toronto">Downtown Toronto</a>
<a href="/wiki/Church_and_Wellesley" title="Church and Wellesley">Church and Wellesley</a>
<tr>
 M5Y 
Not assigned
Not assigned
<tr>
 M6Y 
Not assigned
Not assigned
<tr>
 M7Y 
<td><a href="/wiki/East Toronto" title="East Toronto">East Toronto</a>
Business Reply Mail Processing Centre 969 Eastern
<tr>
 M8Y 
<a href="/wiki/Humber_Bay" title="Humber Bay">Humber Bay</a>
```

```
<tr>
 M8Y 
<a href="/wiki/Etobicoke" title="Etobicoke">Etobicoke</a>
King's Mill Park
<tr>
 M8Y 
<a href="/wiki/Etobicoke" title="Etobicoke">Etobicoke</a>
Kingsway Park South East
<tr>
 M8Y 
<a href="/wiki/Etobicoke" title="Etobicoke">Etobicoke</a>
<a href="/wiki/Mimico" title="Mimico">Mimico NE</a>
<tr>
 M8Y 
<a href="/wiki/Etobicoke" title="Etobicoke">Etobicoke</a>
<a href="/wiki/Old Mill, Toronto" title="Old Mill, Toronto">Old Mill South</a>
<tr>
 M8Y 
<\!\!\mathrm{td}\!\!><\!\!\mathrm{a\ href}\!="/wiki/Etobicoke"\ title="Etobicoke"\!\!>\!\!Etobicoke</a>
<a href="/wiki/The Queensway" title="The Queensway">The Queensway East</a>
<tr>
 M8Y 
<a href="/wiki/Etobicoke" title="Etobicoke">Etobicoke</a>
<a class="mw-redirect" href="/wiki/Fairmont Royal York Hotel" title="Fairmont Royal York Ho
<tr>
 M8Y 
<a href="/wiki/Etobicoke" title="Etobicoke">Etobicoke</a>
<a class="mw-redirect" href="/wiki/Sunnylea" title="Sunnylea">Sunnylea</a>
<tr>
 M9Y 
Not assigned
Not assigned
<tr>
 M1Z 
Not assigned
Not assigned
<tr>
<\!td\!>\!M2Z\!<\!/td\!>
Not assigned
```

```
Not assigned
<tr>
 M3Z 
Not assigned
Not assigned
<tr>
 M4Z 
 Not assigned 
Not assigned
<tr>
 M5Z 
Not assigned
Not assigned
<tr>
 M6Z 
Not assigned
Not assigned
<tr>
 M7Z 
Not assigned
Not assigned
<tr>
 M8Z 
<a href="/wiki/Etobicoke" title="Etobicoke">Etobicoke</a>
Kingsway Park South West
<tr>
 M8Z 
<td><a href="/wiki/Etobicoke" title="Etobicoke">Etobicoke</a>
<a href="/wiki/Mimico" title="Mimico">Mimico NW</a>
<tr>
 M8Z 
<a href="/wiki/Etobicoke" title="Etobicoke">Etobicoke</a>
<a href="/wiki/The Queensway" title="The Queensway">The Queensway West</a>
<tr>
 M8Z 
<td><a href="/wiki/Etobicoke" title="Etobicoke">Etobicoke</a>
Royal York South West
<tr>
```

```
 M8Z 
     <a href="/wiki/Etobicoke" title="Etobicoke">Etobicoke</a>
     South of Bloor
     <tr>
      M9Z 
     Not assigned
     Not assigned
     In [10]: import pandas as pd
In [11]: type(scrapped data)
Out[11]: bs4.element.Tag
In [12]: tbl=str(scrapped data)
     records=pd.read html(tbl)
     records
Out[12]: [
                        Borough \
          Postcode
      0
            M1A
                   Not assigned
      1
            M2A
                   Not assigned
      2
            M3A
                     North York
      3
            M4A
                     North York
      4
            M5A Downtown Toronto
      5
            M5A Downtown Toronto
                     North York
      6
            M6A
      7
            M6A
                     North York
      8
            M7A
                    Queen's Park
      9
            M8A
                   Not assigned
                      Etobicoke
      10
            M9A
      11
            M1B
                    Scarborough
      12
            M1B
                    Scarborough
      13
            M2B
                    Not assigned
      14
                     North York
            M3B
      15
            M4B
                     East York
      16
            M4B
                     East York
            M5B Downtown Toronto
      17
      18
            M5B
                 Downtown Toronto
      19
                     North York
            M6B
      20
            M7B
                    Not assigned
      21
            M8B
                    Not assigned
      22
                      Etobicoke
            M9B
      23
            M9B
                     Etobicoke
      24
            M9B
                     Etobicoke
      25
            M9B
                     Etobicoke
```

| 26 | M9B | Etobicoke |
|----------------|-------|--------------------|
| 27 | M1C | Scarborough |
| 28 | M1C | Scarborough |
| 29 | M1C | Scarborough |
| | | |
| 258 | M9X | Not assigned |
| 259 | M1Y | Not assigned |
| 260 | M2Y | Not assigned |
| 261 | M3Y | Not assigned |
| 262 | M4Y | Downtown Toronto |
| 263 | M5Y | Not assigned |
| 264 | M6Y | Not assigned |
| 265 | M7Y | East Toronto |
| 266 | M8Y | Etobicoke |
| 267 | M8Y | Etobicoke |
| 268 | M8Y | Etobicoke |
| 269 | M8Y | Etobicoke |
| 270 | M8Y | Etobicoke |
| 271 | M8Y | Etobicoke |
| 272 | M8Y | Etobicoke |
| 273 | M8Y | Etobicoke |
| 274 | M9Y | Not assigned |
| 275 | M1Z | Not assigned |
| 276 | M2Z | Not assigned |
| 277 | M3Z | Not assigned |
| 278 | M4Z | Not assigned |
| 279 | M5Z | Not assigned |
| 280 | M6Z | Not assigned |
| 281 | M7Z | Not assigned |
| 282 | M8Z | Etobicoke |
| 283 | M8Z | Etobicoke |
| 284 | M8Z | Etobicoke |
| 285 | M8Z | Etobicoke |
| 286 | M8Z | Etobicoke |
| 287 | M9Z | Not assigned |
| -0. | 1,102 | 1.00 app18110a |
| | | Neighbourhood |
| 0 | | Not assigned |
| 1 | | Not assigned |
| $\overline{2}$ | | Parkwoods |
| 3 | | Victoria Village |
| 4 | | Harbourfront |
| 5 | | Regent Park |
| 6 | | Lawrence Heights |
| 7 | | Lawrence Manor |
| 8 | | Not assigned |
| 9 | | Not assigned |
| 10 | | Islington Avenue |
| 10 | | isiiigoon rivelide |

| 11 | D |
|----------|---|
| 11 12 | Rouge Malvern |
| 13 | |
| | Not assigned |
| 14 | Don Mills North |
| 15 | Woodbine Gardens |
| 16 | Parkview Hill |
| 17 | Ryerson |
| 18 | Garden District |
| 19 | Glencairn |
| 20 | Not assigned |
| 21 | Not assigned |
| 22 | $\operatorname{Cloverdale}$ |
| 23 | Islington |
| 24 | Martin Grove |
| 25 | Princess Gardens |
| 26 | West Deane Park |
| 27 | Highland Creek |
| 28 | Rouge Hill |
| 29 | Port Union |
| | ••• |
| 258 | Not assigned |
| 259 | Not assigned |
| 260 | Not assigned |
| 261 | Not assigned |
| 262 | Church and Wellesley |
| 263 | Not assigned |
| 264 | Not assigned |
| 265 | Business Reply Mail Processing Centre 969 Eastern |
| 266 | Humber Bay |
| 267 | King's Mill Park |
| 268 | Kingsway Park South East |
| 269 | Mimico NE |
| 270 | Old Mill South |
| 271 | The Queensway East |
| 272 | Royal York South East |
| 273 | $\mathbf{Sunnylea}$ |
| 274 | Not assigned |
| 275 | Not assigned |
| 276 | Not assigned |
| 277 | Not assigned |
| 278 | Not assigned |
| 279 | Not assigned |
| 280 | Not assigned |
| 281 | Not assigned |
| 282 | Kingsway Park South West |
| 283 | Mimico NW |
| 284 | The Queensway West |
| | |
| 285 | Royal York South West |

286 South of Bloor 287 Not assigned

[288 rows x 3 columns]]

 $\begin{array}{c} \text{In [13]: output=records[0]} \\ \text{output} \end{array}$

| Out[13]: | Postcode | e Borough \ |
|----------|----------|------------------|
| 0 | M1A | Not assigned |
| 1 | M2A | Not assigned |
| 2 | M3A | North York |
| 3 | M4A | North York |
| 4 | M5A | Downtown Toronto |
| 5 | M5A | Downtown Toronto |
| 6 | M6A | North York |
| 7 | M6A | North York |
| 8 | M7A | Queen's Park |
| 9 | M8A | Not assigned |
| 10 | M9A | Etobicoke |
| 11 | M1B | Scarborough |
| 12 | M1B | Scarborough |
| 13 | M2B | Not assigned |
| 14 | M3B | North York |
| 15 | M4B | East York |
| 16 | M4B | East York |
| 17 | M5B | Downtown Toronto |
| 18 | M5B | Downtown Toronto |
| 19 | M6B | North York |
| 20 | M7B | Not assigned |
| 21 | M8B | Not assigned |
| 22 | M9B | Etobicoke |
| 23 | M9B | Etobicoke |
| 24 | M9B | Etobicoke |
| 25 | M9B | Etobicoke |
| 26 | M9B | Etobicoke |
| 27 | M1C | Scarborough |
| 28 | M1C | Scarborough |
| 29 | M1C | Scarborough |
| | | |
| 258 | M9X | Not assigned |
| 259 | M1Y | Not assigned |
| 260 | M2Y | Not assigned |
| 261 | M3Y | Not assigned |
| 262 | M4Y | Downtown Toronto |
| 263 | M5Y | Not assigned |
| 264 | M6Y | Not assigned |
| 265 | M7Y | East Toronto |

| 266 | M8Y | Etobicoke |
|-----|-----|--------------|
| 267 | M8Y | Etobicoke |
| 268 | M8Y | Etobicoke |
| 269 | M8Y | Etobicoke |
| 270 | M8Y | Etobicoke |
| 271 | M8Y | Etobicoke |
| 272 | M8Y | Etobicoke |
| 273 | M8Y | Etobicoke |
| 274 | M9Y | Not assigned |
| 275 | M1Z | Not assigned |
| 276 | M2Z | Not assigned |
| 277 | M3Z | Not assigned |
| 278 | M4Z | Not assigned |
| 279 | M5Z | Not assigned |
| 280 | M6Z | Not assigned |
| 281 | M7Z | Not assigned |
| 282 | M8Z | Etobicoke |
| 283 | M8Z | Etobicoke |
| 284 | M8Z | Etobicoke |
| 285 | M8Z | Etobicoke |
| 286 | M8Z | Etobicoke |
| 287 | M9Z | Not assigned |
| | | |

| | ${ m Neighbourhood}$ |
|----|-----------------------------|
| 0 | Not assigned |
| 1 | Not assigned |
| 2 | $\operatorname{Parkwoods}$ |
| 3 | Victoria Village |
| 4 | ${ m Harbourfront}$ |
| 5 | Regent Park |
| 6 | Lawrence Heights |
| 7 | Lawrence Manor |
| 8 | Not assigned |
| 9 | Not assigned |
| 10 | Islington Avenue |
| 11 | Rouge |
| 12 | $\operatorname{Malvern}$ |
| 13 | Not assigned |
| 14 | Don Mills North |
| 15 | Woodbine Gardens |
| 16 | Parkview Hill |
| 17 | Ryerson |
| 18 | Garden District |
| 19 | $\operatorname{Glencairn}$ |
| 20 | Not assigned |
| 21 | Not assigned |
| 22 | $\operatorname{Cloverdale}$ |
| 23 | $\operatorname{Islington}$ |

```
24
                                      Martin Grove
      25
                                   Princess Gardens
      26
                                    West Deane Park
      27
                                    Highland Creek
      28
                                       Rouge Hill
      29
                                       Port Union
                                            . . .
      . .
                                      Not assigned
      258
      259
                                      Not assigned
      260
                                      Not assigned
      261
                                      Not assigned
      262
                                 Church and Wellesley
      263
                                      Not assigned
                                      Not assigned
      264
      265
           Business Reply Mail Processing Centre 969 Eastern
                                        Humber Bay
      266
      267
                                   King's Mill Park
      268
                              Kingsway Park South East
      269
                                        Mimico NE
      270
                                     Old Mill South
      271
                                  The Queensway East
      272
                                Royal York South East
      273
                                         Sunnylea
      274
                                      Not assigned
      275
                                      Not assigned
      276
                                      Not assigned
      277
                                      Not assigned
      278
                                      Not assigned
      279
                                      Not assigned
      280
                                      Not assigned
                                      Not assigned
      281
      282
                              Kingsway Park South West
      283
                                        Mimico NW
      284
                                  The Queensway West
      285
                                Royal York South West
      286
                                     South of Bloor
      287
                                      Not assigned
      [288 rows x 3 columns]
In [14]: #remove not assigned borough
      table1=output.loc[output['Borough']!='Not assigned']
      #handling not assigned neighbourhood
      tablena=table1.loc[table1['Neighbourhood']=='Not assigned']
      tablena['Neighbourhood']=tablena['Borough']
      tablena
```

```
tablea=table1.loc[table1['Neighbourhood']!='Not assigned']
table2=tablea.append(tablena)

#handling multiple postcode
table3=table2.groupby(['Postcode','Borough']).agg(lambda Neighbourhood: ', '.join(Neighbourhood)).reset_table3
```

/home/jupyterlab/conda/lib/python3.6/site-packages/ipykernel_launcher.py:6: SettingWithCopyWarning: A value is trying to be set on a copy of a slice from a DataFrame.

Try using .loc[row indexer,col indexer] = value instead

See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/indexing.html#indexing-vie-

| Out[14]: | Postcode | $\operatorname{Borough}$ | \ |
|----------|----------|--------------------------|---|
| 0 | M1B | Scarborough | |
| 1 | M1C | Scarborough | |
| 2 | M1E | Scarborough | |
| 3 | M1G | Scarborough | |
| 4 | M1H | Scarborough | |
| 5 | M1J | Scarborough | |
| 6 | M1K | Scarborough | |
| 7 | M1L | Scarborough | |
| 8 | M1M | Scarborough | |
| 9 | M1N | Scarborough | |
| 10 | M1P | Scarborough | |
| 11 | M1R | Scarborough | |
| 12 | M1S | S carborough | |
| 13 | M1T | Scarborough | |
| 14 | M1V | Scarborough | |
| 15 | M1W | Scarborough | |
| 16 | M1X | Scarborough | |
| 17 | M2H | North York | |
| 18 | M2J | North York | |
| 19 | M2K | North York | |
| 20 | M2L | North York | |
| 21 | M2M | North York | |
| 22 | M2N | North York | |
| 23 | M2P | North York | |
| 24 | M2R | North York | |
| 25 | M3A | North York | |
| 26 | M3B | North York | |
| 27 | M3C | North York | |
| 28 | M3H | North York | |
| 29 | M3J | North York | |
| • • | | | |
| 73 | M6C | York | |
| | | | |

| 74 | M6E York | | |
|-----|---|--|--|
| 75 | M6G Downtown Toronto | | |
| 76 | M6H West Toronto | | |
| 77 | M6J West Toronto | | |
| 78 | M6K West Toronto | | |
| 79 | M6L North York | | |
| 80 | M6M York | | |
| 81 | | | |
| | | | |
| 82 | M6P West Toronto | | |
| 83 | M6R West Toronto | | |
| 84 | M6S West Toronto | | |
| 85 | M7A Queen's Park | | |
| 86 | M7R Mississauga | | |
| 87 | M7Y East Toronto | | |
| 88 | M8V Etobicoke | | |
| 89 | M8W Etobicoke | | |
| 90 | M8X Etobicoke | | |
| 91 | M8Y Etobicoke | | |
| 92 | M8Z Etobicoke | | |
| 93 | M9A Etobicoke | | |
| 94 | M9B Etobicoke | | |
| 95 | M9C Etobicoke | | |
| 96 | M9L North York | | |
| 97 | M9M North York | | |
| 98 | M9N York | | |
| 99 | M9P Etobicoke | | |
| 100 | M9R Etobicoke | | |
| 101 | M9V Etobicoke | | |
| 102 | M9W Etobicoke | | |
| | | | |
| | ${ m Neighbourhood}$ | | |
| 0 | ${ m Rouge,Malvern}$ | | |
| 1 | Highland Creek, Rouge Hill, Port Union | | |
| 2 | Guildwood, Morningside, West Hill | | |
| 3 | Woburn | | |
| 4 | $\operatorname{Cedarbrae}$ | | |
| 5 | Scarborough Village | | |
| 6 | East Birchmount Park, Ionview, Kennedy Park | | |
| 7 | Clairlea, Golden Mile, Oakridge | | |
| 8 | Cliffcrest, Cliffside, Scarborough Village West | | |
| 9 | Birch Cliff, Cliffside West | | |
| 10 | Dorset Park, Scarborough Town Centre, Wexford | | |
| 11 | Maryvale, Wexford | | |
| 12 | Agincourt | | |
| 13 | Clarks Corners, Sullivan, Tam O'Shanter | | |
| 14 | Agincourt North, L'Amoreaux East, Milliken, St | | |
| 15 | L'Amoreaux West | | |
| 16 | Upper Rouge | | |
| 10 | oppor itous | | |

| 17 | Hillcrest Village |
|------|---|
| 18 | Fairview, Henry Farm, Oriole |
| 19 | Bayview Village |
| 20 | Silver Hills, York Mills |
| 21 | Newtonbrook, Willowdale |
| 22 | Willowdale South |
| 23 | York Mills West |
| 24 | Willowdale West |
| 25 | $\operatorname{Parkwoods}$ |
| 26 | Don Mills North |
| 27 | Flemingdon Park, Don Mills South |
| 28 | Bathurst Manor, Downsview North, Wilson Heights |
| 29 | Northwood Park, York University |
| | |
| 73 | ${ m Humewood	ext{-}Cedarvale}$ |
| 74 | Caledonia-Fairbanks |
| 75 | $\operatorname{Christie}$ |
| 76 | Dovercourt Village, Dufferin |
| 77 | Little Portugal, Trinity |
| 78 | Brockton, Exhibition Place, Parkdale Village |
| 79 | Downsview, North Park, Upwood Park |
| 80 | Del Ray, Keelesdale, Mount Dennis, Silverthorn |
| 81 | The Junction North, Runnymede |
| 82 | High Park, The Junction South |
| 83 | Parkdale, Roncesvalles |
| 84 | Runnymede, Swansea |
| 85 | Queen's Park |
| 86 | Canada Post Gateway Processing Centre |
| 87 | Business Reply Mail Processing Centre 969 Eastern |
| 88 | Humber Bay Shores, Mimico South, New Toronto |
| 89 | Alderwood, Long Branch |
| 90 | The Kingsway, Montgomery Road, Old Mill North |
| 91 | Humber Bay, King's Mill Park, Kingsway Park So |
| 92 | Kingsway Park South West, Mimico NW, The Queen |
| 93 | Islington Avenue |
| 94 | Cloverdale, Islington, Martin Grove, Princess |
| 95 | Bloordale Gardens, Eringate, Markland Wood, Ol |
| 96 | Humber Summit |
| 97 | Emery, Humberlea |
| 98 | Weston |
| 99 | $\operatorname{Westmount}$ |
| 100 | Kingsview Village, Martin Grove Gardens, Richv |
| 101 | Albion Gardens, Beaumond Heights, Humbergate, |
| 102 | Northwest |
| | |
| [103 | rows x 3 columns |
| | |

In [15]: table3.shape

Out[15]: (103, 3)

In [31]: dataset=pd.read_csv('https://cocl.us/Geospatial_data')
dataset

```
Out[31]:
           Postal Code Latitude Longitude
      0
               M1B 43.806686 - 79.194353
      1
               M1C 43.784535 -79.160497
               M1E 43.763573 -79.188711
      3
               M1G 43.770992 -79.216917
      4
               M1H 43.773136 -79.239476
      5
               M1J 43.744734 -79.239476
      6
               M1K 43.727929 -79.262029
      7
               M1L 43.711112 -79.284577
      8
               M1M 43.716316 -79.239476
      9
               M1N 43.692657 -79.264848
      10
               M1P 43.757410 -79.273304
      11
               M1R 43.750072 -79.295849
      12
               M1S 43.794200 -79.262029
      13
               M1T 43.781638 -79.304302
      14
               M1V 43.815252 -79.284577
      15
               M1W 43.799525 -79.318389
      16
               M1X 43.836125 -79.205636
      17
               M2H 43.803762 - 79.363452
      18
               M2J 43.778517 -79.346556
      19
               M2K 43.786947 - 79.385975
      20
               M2L 43.757490 -79.374714
      21
               M2M 43.789053 -79.408493
      22
               M2N 43.770120 -79.408493
      23
               M2P 43.752758 -79.400049
               M2R 43.782736 -79.442259
      24
      25
               M3A 43.753259 -79.329656
      26
               M3B 43.745906 - 79.352188
      27
               M3C 43.725900 -79.340923
      28
               M3H 43.754328 -79.442259
      29
               M3J 43.767980 -79.487262
                      . . .
      73
               M6C 43.693781 -79.428191
      74
               M6E 43.689026 -79.453512
      75
               M6G 43.669542 -79.422564
      76
               M6H 43.669005 -79.442259
      77
               M6J 43.647927 -79.419750
      78
               M6K 43.636847 - 79.428191
      79
               M6L 43.713756 -79.490074
      80
               M6M 43.691116 -79.476013
      81
               M6N 43.673185 -79.487262
      82
               M6P 43.661608 -79.464763
      83
               M6R 43.648960 -79.456325
```

```
84
               M6S 43.651571 -79.484450
      85
               M7A 43.662301 -79.389494
      86
               M7R 43.636966 -79.615819
      87
               M7Y 43.662744 - 79.321558
      88
               M8V 43.605647 - 79.501321
      89
               M8W 43.602414 -79.543484
      90
               M8X 43.653654 -79.506944
      91
               M8Y 43.636258 -79.498509
      92
               M8Z 43.628841 -79.520999
      93
               M9A 43.667856 -79.532242
      94
               M9B 43.650943 -79.554724
      95
               M9C 43.643515 -79.577201
      96
               M9L 43.756303 -79.565963
      97
               M9M 43.724766 -79.532242
      98
               M9N 43.706876 -79.518188
      99
               M9P \quad 43.696319 \ \text{--}79.532242
      100
                M9R 43.688905 -79.554724
      101
                M9V 43.739416 - 79.588437
      102
                M9W 43.706748 -79.594054
      [103 \text{ rows x } 3 \text{ columns}]
In [41]: #df1=pd.concat([table3, dataset], keys=['Postcode', 'Postal Code',])
      df1=pd.concat([table3, dataset], axis=1, join='outer')
      df1.drop(columns="Postal Code")
Out[41]:
           Postcode
                           Borough \
      0
             M1B
                      Scarborough
      1
             M1C
                       Scarborough
      2
             M1E
                      Scarborough
      3
                       Scarborough
             M1G
      4
             M1H
                       Scarborough
      5
             M1J
                      Scarborough
      6
             M1K
                       Scarborough
      7
             M1L
                      Scarborough
      8
             M1M
                       Scarborough
      9
             M1N
                       Scarborough
      10
             M1P
                       Scarborough
      11
             M1R
                       Scarborough
                       Scarborough
      12
             M1S
      13
             M1T
                       Scarborough
      14
             M1V
                       Scarborough
      15
             M1W
                        Scarborough
      16
             M1X
                       Scarborough
      17
             M2H
                        North York
      18
             M2J
                       North York
      19
             M2K
                        North York
                       North York
      20
             M2L
```

```
21
                 North York
      M2M
22
      M2N
                 North York
23
      M2P
                 North York
24
      M2R
                 North York
25
      M3A
                North York
26
      M3B
                 North York
27
                 North York
      M3C
28
      M3H
                 North York
29
      M3J
                North York
73
      M6C
                     York
74
      M6E
                     York
            Downtown Toronto
75
      M6G
76
               West Toronto
      M6H
77
      M6J
               West Toronto
      M6K
78
               West Toronto
79
      M6L
                North York
80
                     York
      M6M
81
      M6N
                     York
82
      M6P
               West Toronto
83
               West Toronto
      M6R
84
      M6S
               West Toronto
85
      M7A
               Queen's Park
86
      M7R
                Mississauga
87
      M7Y
               East Toronto
88
      M8V
                 Etobicoke
89
      M8W
                  Etobicoke
90
      M8X
                 Etobicoke
91
      M8Y
                 Etobicoke
92
      M8Z
                 Etobicoke
                 Etobicoke
93
      M9A
94
      M9B
                 Etobicoke
95
      M9C
                 Etobicoke
96
      M9L
                North York
97
      M9M
                 North York
98
      M9N
                     York
99
      M9P
                 Etobicoke
100
       M9R
                  Etobicoke
101
       M9V
                  Etobicoke
102
       M9W
                  Etobicoke
                            Neighbourhood Latitude Longitude
0
                            Rouge, Malvern 43.806686 - 79.194353
           Highland Creek, Rouge Hill, Port Union 43.784535 -79.160497
1
2
              Guildwood, Morningside, West Hill 43.763573 -79.188711
3
                                 Woburn 43.770992 -79.216917
                                Cedarbrae 43.773136 - 79.239476
4
5
                        Scarborough Village 43.744734 - 79.239476
```

| 6 | East Birchmount Park, Ionview, Kennedy Park 43.727929 -79.262029 |
|--|--|
| 7 | Clairlea, Golden Mile, Oakridge 43.711112 -79.284577 |
| 8 | Cliffcrest, Cliffside, Scarborough Village West 43.716316 -79.239476 |
| 9 | Birch Cliff, Cliffside West 43.692657 -79.264848 |
| 10 | Dorset Park, Scarborough Town Centre, Wexford 43.757410 -79.273304 |
| 11 | Maryvale, Wexford 43.750072 -79.295849 |
| 12 | Agincourt 43.794200 -79.262029 |
| 13 | Clarks Corners, Sullivan, Tam O'Shanter 43.781638 -79.304302 |
| 14 | Agincourt North, L'Amoreaux East, Milliken, St 43.815252 -79.284577 |
| 15 | L'Amoreaux West 43.799525 -79.318389 |
| 16 | Upper Rouge 43.836125 -79.205636 |
| 17 | Hillcrest Village 43.803762 -79.363452 |
| 18 | Fairview, Henry Farm, Oriole 43.778517 -79.346556 |
| 19 | Bayview Village 43.786947 -79.385975 |
| 20 | Silver Hills, York Mills 43.757490 -79.374714 |
| 21 | Newtonbrook, Willowdale 43.789053 -79.408493 |
| $\frac{-}{22}$ | Willowdale South 43.770120 -79.408493 |
| 23 | York Mills West 43.752758 -79.400049 |
| $\frac{24}{24}$ | Willowdale West 43.782736 -79.442259 |
| 25 | Parkwoods 43.753259 -79.329656 |
| 26 | Don Mills North 43.745906 -79.352188 |
| 27 | Flemingdon Park, Don Mills South 43.725900 -79.340923 |
| 28 | Bathurst Manor, Downsview North, Wilson Heights 43.754328 -79.442259 |
| 29 | Northwood Park, York University 43.767980 -79.487262 |
| 20 | 1101 till Wood 1 till, 101k Cliffety 19.101900 19.101202 |
| | |
| 73 | Humewood-Cedarvale 43.693781 -79.428191 |
| 73 | Humewood-Cedarvale 43.693781 -79.428191 |
| 73 74 | Humewood-Cedarvale 43.693781 -79.428191 Caledonia-Fairbanks 43.689026 -79.453512 |
| 73 74 75 | Humewood-Cedarvale 43.693781 -79.428191 Caledonia-Fairbanks 43.689026 -79.453512 Christie 43.669542 -79.422564 |
| 73 74 75 76 | Humewood-Cedarvale 43.693781 -79.428191 Caledonia-Fairbanks 43.689026 -79.453512 Christie 43.669542 -79.422564 Dovercourt Village, Dufferin 43.669005 -79.442259 |
| 73 74 75 76 77 | Humewood-Cedarvale 43.693781 -79.428191 Caledonia-Fairbanks 43.689026 -79.453512 Christie 43.669542 -79.422564 Dovercourt Village, Dufferin 43.669005 -79.442259 Little Portugal, Trinity 43.647927 -79.419750 |
| 73 74 75 76 77 78 | Humewood-Cedarvale 43.693781 -79.428191 Caledonia-Fairbanks 43.689026 -79.453512 Christie 43.669542 -79.422564 Dovercourt Village, Dufferin 43.669005 -79.442259 Little Portugal, Trinity 43.647927 -79.419750 Brockton, Exhibition Place, Parkdale Village 43.636847 -79.428191 |
| 73 74 75 76 77 78 79 | Humewood-Cedarvale 43.693781 -79.428191 Caledonia-Fairbanks 43.689026 -79.453512 Christie 43.669542 -79.422564 Dovercourt Village, Dufferin 43.669005 -79.442259 Little Portugal, Trinity 43.647927 -79.419750 Brockton, Exhibition Place, Parkdale Village 43.636847 -79.428191 Downsview, North Park, Upwood Park 43.713756 -79.490074 |
| 73 74 75 76 77 78 79 80 | Humewood-Cedarvale 43.693781 -79.428191 Caledonia-Fairbanks 43.689026 -79.453512 Christie 43.669542 -79.422564 Dovercourt Village, Dufferin 43.669005 -79.442259 Little Portugal, Trinity 43.647927 -79.419750 Brockton, Exhibition Place, Parkdale Village 43.636847 -79.428191 Downsview, North Park, Upwood Park 43.713756 -79.490074 Del Ray, Keelesdale, Mount Dennis, Silverthorn 43.691116 -79.476013 |
| 73 74 75 76 77 78 79 80 81 | Humewood-Cedarvale 43.693781 -79.428191 Caledonia-Fairbanks 43.689026 -79.453512 Christie 43.669542 -79.422564 Dovercourt Village, Dufferin 43.669005 -79.442259 Little Portugal, Trinity 43.647927 -79.419750 Brockton, Exhibition Place, Parkdale Village 43.636847 -79.428191 Downsview, North Park, Upwood Park 43.713756 -79.490074 Del Ray, Keelesdale, Mount Dennis, Silverthorn 43.691116 -79.476013 The Junction North, Runnymede 43.673185 -79.487262 |
| 73 74 75 76 77 78 79 80 81 82 | Humewood-Cedarvale 43.693781 -79.428191 Caledonia-Fairbanks 43.689026 -79.453512 Christie 43.669542 -79.422564 Dovercourt Village, Dufferin 43.669005 -79.442259 Little Portugal, Trinity 43.647927 -79.419750 Brockton, Exhibition Place, Parkdale Village 43.636847 -79.428191 Downsview, North Park, Upwood Park 43.713756 -79.490074 Del Ray, Keelesdale, Mount Dennis, Silverthorn 43.691116 -79.476013 The Junction North, Runnymede 43.673185 -79.487262 High Park, The Junction South 43.661608 -79.464763 |
| 73 74 75 76 77 78 79 80 81 82 83 | Humewood-Cedarvale 43.693781 -79.428191 Caledonia-Fairbanks 43.689026 -79.453512 Christie 43.669542 -79.422564 Dovercourt Village, Dufferin 43.669005 -79.442259 Little Portugal, Trinity 43.647927 -79.419750 Brockton, Exhibition Place, Parkdale Village 43.636847 -79.428191 Downsview, North Park, Upwood Park 43.713756 -79.490074 Del Ray, Keelesdale, Mount Dennis, Silverthorn 43.691116 -79.476013 The Junction North, Runnymede 43.673185 -79.487262 High Park, The Junction South 43.661608 -79.464763 Parkdale, Roncesvalles 43.648960 -79.456325 |
| 73 74 75 76 77 78 79 80 81 82 83 84 | Humewood-Cedarvale 43.693781 -79.428191 Caledonia-Fairbanks 43.689026 -79.453512 Christie 43.669542 -79.422564 Dovercourt Village, Dufferin 43.669005 -79.442259 Little Portugal, Trinity 43.647927 -79.419750 Brockton, Exhibition Place, Parkdale Village 43.636847 -79.428191 Downsview, North Park, Upwood Park 43.713756 -79.490074 Del Ray, Keelesdale, Mount Dennis, Silverthorn 43.691116 -79.476013 The Junction North, Runnymede 43.673185 -79.487262 High Park, The Junction South 43.661608 -79.464763 Parkdale, Roncesvalles 43.648960 -79.456325 Runnymede, Swansea 43.651571 -79.484450 |
| 73 74 75 76 77 78 79 80 81 82 83 84 85 | Humewood-Cedarvale 43.693781 -79.428191 Caledonia-Fairbanks 43.689026 -79.453512 Christie 43.669542 -79.422564 Dovercourt Village, Dufferin 43.669005 -79.442259 Little Portugal, Trinity 43.647927 -79.419750 Brockton, Exhibition Place, Parkdale Village 43.636847 -79.428191 Downsview, North Park, Upwood Park 43.713756 -79.490074 Del Ray, Keelesdale, Mount Dennis, Silverthorn 43.691116 -79.476013 The Junction North, Runnymede 43.673185 -79.487262 High Park, The Junction South 43.661608 -79.464763 Parkdale, Roncesvalles 43.648960 -79.456325 Runnymede, Swansea 43.651571 -79.484450 Queen's Park 43.662301 -79.389494 |
| 73 74 75 76 77 78 79 80 81 82 83 84 85 86 | Humewood-Cedarvale 43.693781 -79.428191 Caledonia-Fairbanks 43.689026 -79.453512 Christie 43.669542 -79.422564 Dovercourt Village, Dufferin 43.669005 -79.442259 Little Portugal, Trinity 43.647927 -79.419750 Brockton, Exhibition Place, Parkdale Village 43.636847 -79.428191 Downsview, North Park, Upwood Park 43.713756 -79.490074 Del Ray, Keelesdale, Mount Dennis, Silverthorn 43.691116 -79.476013 The Junction North, Runnymede 43.673185 -79.487262 High Park, The Junction South 43.661608 -79.464763 Parkdale, Roncesvalles 43.648960 -79.456325 Runnymede, Swansea 43.651571 -79.484450 Queen's Park 43.662301 -79.389494 Canada Post Gateway Processing Centre 43.636966 -79.615819 |
| 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 | Humewood-Cedarvale 43.693781 -79.428191 Caledonia-Fairbanks 43.689026 -79.453512 Christie 43.669542 -79.422564 Dovercourt Village, Dufferin 43.669005 -79.442259 Little Portugal, Trinity 43.647927 -79.419750 Brockton, Exhibition Place, Parkdale Village 43.636847 -79.428191 Downsview, North Park, Upwood Park 43.713756 -79.490074 Del Ray, Keelesdale, Mount Dennis, Silverthorn 43.691116 -79.476013 The Junction North, Runnymede 43.673185 -79.487262 High Park, The Junction South 43.661608 -79.464763 Parkdale, Roncesvalles 43.648960 -79.456325 Runnymede, Swansea 43.651571 -79.484450 Queen's Park 43.662301 -79.389494 Canada Post Gateway Processing Centre 43.636966 -79.615819 Business Reply Mail Processing Centre 969 Eastern 43.662744 -79.321558 |
| 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 | Humewood-Cedarvale 43.693781 -79.428191 Caledonia-Fairbanks 43.689026 -79.453512 Christie 43.669542 -79.422564 Dovercourt Village, Dufferin 43.669005 -79.442259 Little Portugal, Trinity 43.647927 -79.419750 Brockton, Exhibition Place, Parkdale Village 43.636847 -79.428191 Downsview, North Park, Upwood Park 43.713756 -79.490074 Del Ray, Keelesdale, Mount Dennis, Silverthorn 43.691116 -79.476013 The Junction North, Runnymede 43.673185 -79.487262 High Park, The Junction South 43.661608 -79.464763 Parkdale, Roncesvalles 43.648960 -79.456325 Runnymede, Swansea 43.651571 -79.484450 Queen's Park 43.662301 -79.389494 Canada Post Gateway Processing Centre 43.636966 -79.615819 Business Reply Mail Processing Centre 969 Eastern 43.662744 -79.321558 Humber Bay Shores, Mimico South, New Toronto 43.605647 -79.501321 |
| 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 | Humewood-Cedarvale 43.693781 -79.428191 Caledonia-Fairbanks 43.689026 -79.453512 Christie 43.669542 -79.422564 Dovercourt Village, Dufferin 43.669005 -79.442259 Little Portugal, Trinity 43.647927 -79.419750 Brockton, Exhibition Place, Parkdale Village 43.636847 -79.428191 Downsview, North Park, Upwood Park 43.713756 -79.490074 Del Ray, Keelesdale, Mount Dennis, Silverthorn 43.691116 -79.476013 The Junction North, Runnymede 43.673185 -79.487262 High Park, The Junction South 43.661608 -79.464763 Parkdale, Roncesvalles 43.648960 -79.456325 Runnymede, Swansea 43.651571 -79.484450 Queen's Park 43.662301 -79.389494 Canada Post Gateway Processing Centre 43.636966 -79.615819 Business Reply Mail Processing Centre 969 Eastern 43.662744 -79.321558 Humber Bay Shores, Mimico South, New Toronto 43.605647 -79.501321 Alderwood, Long Branch 43.602414 -79.543484 |
| 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 | Humewood-Cedarvale 43.693781 -79.428191 Caledonia-Fairbanks 43.689026 -79.453512 Christie 43.669542 -79.422564 Dovercourt Village, Dufferin 43.669005 -79.442259 Little Portugal, Trinity 43.647927 -79.419750 Brockton, Exhibition Place, Parkdale Village 43.636847 -79.428191 Downsview, North Park, Upwood Park 43.713756 -79.490074 Del Ray, Keelesdale, Mount Dennis, Silverthorn 43.691116 -79.476013 The Junction North, Runnymede 43.673185 -79.487262 High Park, The Junction South 43.661608 -79.464763 Parkdale, Roncesvalles 43.648960 -79.456325 Runnymede, Swansea 43.651571 -79.484450 Queen's Park 43.662301 -79.389494 Canada Post Gateway Processing Centre 43.636966 -79.615819 Business Reply Mail Processing Centre 969 Eastern 43.662744 -79.321558 Humber Bay Shores, Mimico South, New Toronto 43.605647 -79.501321 Alderwood, Long Branch 43.602414 -79.543484 The Kingsway, Montgomery Road, Old Mill North 43.653654 -79.506944 |
| 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 90 91 | Humewood-Cedarvale 43.693781 -79.428191 Caledonia-Fairbanks 43.689026 -79.453512 Christie 43.669542 -79.422564 Dovercourt Village, Dufferin 43.669005 -79.442259 Little Portugal, Trinity 43.647927 -79.419750 Brockton, Exhibition Place, Parkdale Village 43.636847 -79.428191 Downsview, North Park, Upwood Park 43.713756 -79.490074 Del Ray, Keelesdale, Mount Dennis, Silverthorn 43.691116 -79.476013 The Junction North, Runnymede 43.673185 -79.487262 High Park, The Junction South 43.661608 -79.464763 Parkdale, Roncesvalles 43.648960 -79.456325 Runnymede, Swansea 43.651571 -79.484450 Queen's Park 43.662301 -79.389494 Canada Post Gateway Processing Centre 43.636966 -79.615819 Business Reply Mail Processing Centre 969 Eastern 43.662744 -79.321558 Humber Bay Shores, Mimico South, New Toronto 43.605647 -79.501321 Alderwood, Long Branch 43.602414 -79.543484 The Kingsway, Montgomery Road, Old Mill North 43.653654 -79.506944 Humber Bay, King's Mill Park, Kingsway Park So 43.636258 -79.498509 |
| 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 90 91 92 | Humewood-Cedarvale 43.693781 -79.428191 Caledonia-Fairbanks 43.689026 -79.453512 Christie 43.669542 -79.422564 Dovercourt Village, Dufferin 43.669005 -79.442259 Little Portugal, Trinity 43.647927 -79.419750 Brockton, Exhibition Place, Parkdale Village 43.636847 -79.428191 Downsview, North Park, Upwood Park 43.713756 -79.490074 Del Ray, Keelesdale, Mount Dennis, Silverthorn 43.691116 -79.476013 The Junction North, Runnymede 43.673185 -79.487262 High Park, The Junction South 43.661608 -79.464763 Parkdale, Roncesvalles 43.648960 -79.456325 Runnymede, Swansea 43.651571 -79.484450 Queen's Park 43.662301 -79.389494 Canada Post Gateway Processing Centre 43.636966 -79.615819 Business Reply Mail Processing Centre 969 Eastern 43.662744 -79.321558 Humber Bay Shores, Mimico South, New Toronto 43.605647 -79.501321 Alderwood, Long Branch 43.602414 -79.543484 The Kingsway, Montgomery Road, Old Mill North 43.653654 -79.506944 Humber Bay, King's Mill Park, Kingsway Park So 43.638258 -79.498509 Kingsway Park South West, Mimico NW, The Queen 43.628841 -79.520999 |
| 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 | Humewood-Cedarvale 43.693781 -79.428191 Caledonia-Fairbanks 43.689026 -79.453512 Christie 43.669542 -79.422564 Dovercourt Village, Dufferin 43.669005 -79.442259 Little Portugal, Trinity 43.647927 -79.419750 Brockton, Exhibition Place, Parkdale Village 43.636847 -79.428191 Downsview, North Park, Upwood Park 43.713756 -79.490074 Del Ray, Keelesdale, Mount Dennis, Silverthorn 43.691116 -79.476013 The Junction North, Runnymede 43.673185 -79.487262 High Park, The Junction South 43.661608 -79.464763 Parkdale, Roncesvalles 43.648960 -79.456325 Runnymede, Swansea 43.651571 -79.484450 Queen's Park 43.662301 -79.389494 Canada Post Gateway Processing Centre 43.636966 -79.615819 Business Reply Mail Processing Centre 969 Eastern 43.662744 -79.321558 Humber Bay Shores, Mimico South, New Toronto 43.605647 -79.501321 Alderwood, Long Branch 43.602414 -79.543484 The Kingsway, Montgomery Road, Old Mill North 43.653654 -79.506944 Humber Bay, King's Mill Park, Kingsway Park So 43.63258 -79.498509 Kingsway Park South West, Mimico NW, The Queen 43.628841 -79.520999 Islington Avenue 43.667856 -79.532242 |
| 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 90 91 92 | Humewood-Cedarvale 43.693781 -79.428191 Caledonia-Fairbanks 43.689026 -79.453512 Christie 43.669542 -79.422564 Dovercourt Village, Dufferin 43.669005 -79.442259 Little Portugal, Trinity 43.647927 -79.419750 Brockton, Exhibition Place, Parkdale Village 43.636847 -79.428191 Downsview, North Park, Upwood Park 43.713756 -79.490074 Del Ray, Keelesdale, Mount Dennis, Silverthorn 43.691116 -79.476013 The Junction North, Runnymede 43.673185 -79.487262 High Park, The Junction South 43.661608 -79.464763 Parkdale, Roncesvalles 43.648960 -79.456325 Runnymede, Swansea 43.651571 -79.484450 Queen's Park 43.662301 -79.389494 Canada Post Gateway Processing Centre 43.636966 -79.615819 Business Reply Mail Processing Centre 969 Eastern 43.662744 -79.321558 Humber Bay Shores, Mimico South, New Toronto 43.605647 -79.501321 Alderwood, Long Branch 43.602414 -79.543484 The Kingsway, Montgomery Road, Old Mill North 43.653654 -79.506944 Humber Bay, King's Mill Park, Kingsway Park So 43.638258 -79.498509 Kingsway Park South West, Mimico NW, The Queen 43.628841 -79.520999 |

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96 Humber Summit 43.756303 -79.565963
97 Emery, Humberlea 43.724766 -79.532242
98 Weston 43.706876 -79.518188
99 Westmount 43.696319 -79.532242
100 Kingsview Village, Martin Grove Gardens, Richv. . . 43.688905 -79.554724
101 Albion Gardens, Beaumond Heights, Humbergate, . . . 43.739416 -79.588437
102 Northwest 43.706748 -79.594054
```

[103 rows x 5 columns]

Study distribution of neighbourhood of Toronto

We will extract the top 5 common venue in Tornoto's neighbourhood and cluster the group into 5 category

In [54]: toronto_neigh=df1[df1.Borough.str.contains('Toronto')] toronto_neigh

```
Postcode
                        Borough \
Out[54]:
      37
           M4E
                    East Toronto
                    East Toronto
           M4K
      41
      42
           M4L
                    East Toronto
                    East Toronto
      43
           M4M
      44
           M4N
                 Central Toronto
      45
           M4P
                 Central Toronto
      46
           M4R Central Toronto
      47
                 Central Toronto
           M4S
      48
           M4T
                 Central Toronto
      49
           M4V
                 Central Toronto
           M4W Downtown Toronto
      50
      51
           M4X Downtown Toronto
      52
           M4Y Downtown Toronto
      53
           M5A Downtown Toronto
           M5B Downtown Toronto
      54
      55
           M5C Downtown Toronto
      56
           M5E Downtown Toronto
           M5G Downtown Toronto
      57
      58
           M5H Downtown Toronto
      59
           M5J Downtown Toronto
      60
           M5K Downtown Toronto
      61
           M5L Downtown Toronto
      63
                 Central Toronto
           M5N
                 Central Toronto
      64
           M5P
           M5R Central Toronto
      65
           M5S Downtown Toronto
      66
           M5T Downtown Toronto
      67
      68
           M5V Downtown Toronto
      69
           M5W Downtown Toronto
      70
           M5X Downtown Toronto
```

| 75 | M6G Downtown Toronto |
|-----------------|---|
| 76 | M6H West Toronto |
| 77 | M6J West Toronto |
| 78 | M6K West Toronto |
| 82 | M6P West Toronto |
| 83 | M6R West Toronto |
| 84 | M6S West Toronto |
| 87 | M7Y East Toronto |
| | |
| | Neighbourhood Postal Code Latitude \ |
| 37 | The Beaches M4E 43.676357 |
| 41 | The Danforth West, Riverdale M4K 43.679557 |
| 42 | The Beaches West, India Bazaar M4L 43.668999 |
| 43 | Studio District M4M 43.659526 |
| 44 | Lawrence Park M4N 43.728020 |
| 45 | Davisville North M4P 43.712751 |
| $\frac{46}{47}$ | North Toronto West M4R 43.715383 Davisville M4S 43.704324 |
| 48 | Moore Park, Summerhill East M4T 43.689574 |
| 49 | Deer Park, Forest Hill SE, Rathnelly, South Hi M4V 43.686412 |
| 50 | Rosedale M4W 43.679563 |
| 51 | Cabbagetown, St. James Town M4X 43.667967 |
| 52 | Church and Wellesley M4Y 43.665860 |
| 53 | Harbourfront, Regent Park M5A 43.654260 |
| 54 | Ryerson, Garden District M5B 43.657162 |
| 55 | St. James Town M5C 43.651494 |
| 56 | Berczy Park $M5E 43.644771$ |
| 57 | Central Bay Street M5G 43.657952 |
| 58 | Adelaide, King, Richmond M5H 43.650571 |
| 59 | Harbourfront East, Toronto Islands, Union Station M5J 43.640816 |
| 60 | Design Exchange, Toronto Dominion Centre M5K 43.647177 |
| 61 | Commerce Court, Victoria Hotel M5L 43.648198 |
| 63 | Roselawn M5N 43.711695 |
| 64 | Forest Hill North, Forest Hill West M5P 43.696948 |
| 65 | The Annex, North Midtown, Yorkville M5R 43.672710 |
| 66 | Harbord, University of Toronto M5S 43.662696 |
| 67 | Chinatown, Grange Park, Kensington Market M5T 43.653206 |
| 68 | CN Tower, Bathurst Quay, Island airport, Harbo M5V 43.628947 |
| 69 70 | Stn A PO Boxes 25 The Esplanade M5W 43.646435 First Canadian Place, Underground city M5X 43.648429 |
| 75 | First Canadian Place, Underground city M5X 43.648429 Christie M6G 43.669542 |
| 76 | Dovercourt Village, Dufferin M6H 43.669005 |
| 77 | Little Portugal, Trinity M6J 43.647927 |
| 78 | Brockton, Exhibition Place, Parkdale Village M6K 43.636847 |
| 82 | High Park, The Junction South M6P 43.661608 |
| 83 | Parkdale, Roncesvalles M6R 43.648960 |
| 84 | Runnymede, Swansea M6S 43.651571 |
| 87 | Business Reply Mail Processing Centre 969 Eastern M7Y 43.662744 |
| · · | Zasimoss reepi, man i roccionio con nuovoni min 10002111 |

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Longitude
37 - 79.293031
41 - 79.352188
42 - 79.315572
43 - 79.340923
44 - 79.388790
45 - 79.390197
46 - 79 . 40 56 78
47 - 79.388790
48 - 79.383160
49 - 79 . 400049
50 - 79.377529
51 - 79.367675
52 - 79.383160
53 - 79.360636
54 - 79.378937
55 - 79.375418
56 - 79.373306
57 - 79.387383
58 - 79.384568
59 - 79.381752
60 - 79.381576
61 - 79.379817
63 - 79.416936
64 - 79.411307
65 - 79.405678
66 - 79.400049
67 - 79 . 400049
68 - 79.394420
69 - 79.374846
70 - 79.382280
75 - 79.422564
76 - 79.442259
77 - 79.419750
78 - 79.428191
82 - 79.464763
83 - 79.456325
84 - 79.484450
87 - 79.321558
```

In [58]: import json # library to handle JSON files

#!conda install -c conda-forge geopy --yes # uncomment this line if you haven't completed the Foursquare from geopy.geocoders import Nominatim # convert an address into latitude and longitude values

```
import requests \# library to handle requests from pandas.io.json import json_normalize \# tranform JSON file into a pandas dataframe
```

```
\# Matplotlib and associated plotting modules
                 import matplotlib.cm as cm
                 import matplotlib.colors as colors
                 # import k-means from clustering stage
                 from sklearn.cluster import KMeans
                 #!conda install -c conda-forge folium=0.5.0 --yes # uncomment this line if you haven't completed the Four
                 import folium # map rendering library
In [59]: #using foursquare API to extract information
                 CLIENT ID = 'E0U0BEG0FBKSIC3ENYPY1ZSTXQY0KPX31Z4GBYKOWJTIPLNH' # your Foursqu
                 CLIENT SECRET = '0FAIRZHCUOG1GXLBSZOFL2NXXE1FKONACI4PN03GXMWP4QMA' # your
                 VERSION = '20180605' \# Foursquare API version
                 print('Your credentails:')
                 print('CLIENT_ID: ' + CLIENT_ID)
                 print('CLIENT SECRET:' + CLIENT SECRET)
Your credentails:
CLIENT ID: E0U0BEG0FBKSIC3ENYPY1ZSTXQY0KPX31Z4GBYKOWJTIPLNH
CLIENT SECRET:0FAIRZHCUOG1GXLBSZOFL2NXXE1FKONACI4PN03GXMWP4QMA
In [70]: #get venue within Toronto
                 def getNearbyVenues(names, latitudes, longitudes, radius=500, LIMIT=100):
                        venues list=[]
                        for name, lat, lng in zip(names, latitudes, longitudes):
                                print(name)
                                # create the API request URL
                                url = \ 'https://api.foursquare.com/v2/venues/explore?\&client\_id= \{\} \&client\_secret= \{\} \&v= \{\} \&ll= \{\} \&client\_secret= \{\} \&client\_secret= \{\} \&v= \{\} \&client\_secret= \{\} \&client\_s
                                       CLIENT ID,
                                       CLIENT_SECRET,
                                       VERSION,
                                       lat,
                                       lng,
                                       radius,
                                       LIMIT)
                                # make the GET request
                                results = requests.get(url).json()["response"]['groups'][0]['items']
                                # return only relevant information for each nearby venue
```

```
venues list.append([(
               name,
               lat,
               lng,
               v['venue']['name'],
               v['venue']['location']['lat'],
               v['venue']['location']['lng'],
               v['venue']['categories'][0]['name']) for v in results])
         nearby venues = pd.DataFrame([item for venue_list in venues_list for item in venue_list])
         nearby venues.columns = ['Neighborhood',
                    'Neighborhood Latitude',
                    'Neighborhood Longitude',
                    'Venue'.
                    'Venue Latitude',
                    'Venue Longitude',
                    'Venue Category'
         return(nearby venues)
In [71]: toronto venues = getNearbyVenues(names=toronto neigh['Neighbourhood'],
                                latitudes=toronto neigh['Latitude'],
                                longitudes=toronto neigh['Longitude']
The Beaches
The Danforth West, Riverdale
The Beaches West, India Bazaar
Studio District
Lawrence Park
Davisville North
North Toronto West
Davisville
Moore Park, Summerhill East
Deer Park, Forest Hill SE, Rathnelly, South Hill, Summerhill West
Rosedale
Cabbagetown, St. James Town
Church and Wellesley
Harbourfront, Regent Park
Ryerson, Garden District
St. James Town
Berczy Park
Central Bay Street
Adelaide, King, Richmond
Harbourfront East, Toronto Islands, Union Station
Design Exchange, Toronto Dominion Centre
Commerce Court, Victoria Hotel
Roselawn
```

Forest Hill North, Forest Hill West

The Annex, North Midtown, Yorkville

Harbord, University of Toronto

Chinatown, Grange Park, Kensington Market

CN Tower, Bathurst Quay, Island airport, Harbourfront West, King and Spadina, Railway Lands, South Niagara

Stn A PO Boxes 25 The Esplanade

First Canadian Place, Underground city

Christie

Dovercourt Village, Dufferin

Little Portugal, Trinity

Brockton, Exhibition Place, Parkdale Village

High Park, The Junction South

Parkdale, Roncesvalles

Runnymede, Swansea

Business Reply Mail Processing Centre 969 Eastern

In [72]: toronto_venues.groupby('Neighborhood').count()

| Neighborhood Latitude \ Neighborhood Neighborhood Neighborhood Adelaide, King, Richmond Berczy Park 57Brockton, Exhibition Place, Parkdale Village Business Reply Mail Processing Centre 969 Eastern CN Tower, Bathurst Quay, Island airport, Harbou 1517CN Tower, Bathurst Quay, Island airport, Harbou 1515Cabbagetown, St. James Town 4444Central Bay Street 8888Chinatown, Grange Park, Kensington Market 100100Christie 1616Church and Wellesley 8888Commerce Court, Victoria Hotel 100100Davisville North 77Deer Park, Forest Hill SE, Rathnelly, South Hil 1414Design Exchange, Toronto Dominion Centre 100100Dovercourt Village, Dufferin 2020First Canadian Place, Underground city 100100 |
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| Berczy Park Brockton, Exhibition Place, Parkdale Village Business Reply Mail Processing Centre 969 Eastern CN Tower, Bathurst Quay, Island airport, Harbou 15 Cabbagetown, St. James Town Central Bay Street 88 Chinatown, Grange Park, Kensington Market Chirstie 16 Church and Wellesley 88 Commerce Court, Victoria Hotel 100 Davisville 32 Davisville North 7 Deer Park, Forest Hill SE, Rathnelly, South Hil 14 Design Exchange, Toronto Dominion Centre 100 Dovercourt Village, Dufferin 20 First Canadian Place, Underground city 19 19 10 10 10 10 10 10 10 10 10 10 10 10 10 |
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| First Canadian Place, Underground city 100 |
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| Harbord, University of Toronto 34 |
| Harbourfront East, Toronto Islands, Union Station 100 |
| Harbourfront, Regent Park 46 |
| High Park, The Junction South 23 |
| Lawrence Park 4 |
| Little Portugal, Trinity 63 |
| Moore Park, Summerhill East 3 |
| North Toronto West 20 |
| Parkdale, Roncesvalles 15 |

| Rosedale | 4 |
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| Roselawn | 1 |
| Runnymede, Swansea | 40 |
| Ryerson, Garden District | 100 |
| St. James Town | 100 |
| Stn A PO Boxes 25 The Esplanade | 95 |
| Studio District | 37 |
| The Annex, North Midtown, Yorkville | 24 |
| The Beaches | 4 |
| The Beaches West, India Bazaar | 22 |
| The Danforth West, Riverdale | 44 |
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| Neighborhood | $Longitude \ \setminus$ |
| Neighborhood | |
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| Berczy Park | 57 |
| Brockton, Exhibition Place, Parkdale Village | 19 |
| Business Reply Mail Processing Centre 969 Eastern | 17 |
| CN Tower, Bathurst Quay, Island airport, Harbou | 15 |
| Cabbagetown, St. James Town | 44 |
| Central Bay Street | 88 |
| Chinatown, Grange Park, Kensington Market | 100 |
| Christie | 16 |
| Church and Wellesley | 88 |
| Commerce Court, Victoria Hotel | 100 |
| Davisville | 32 |
| Davisville North | 7 |
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| Design Exchange, Toronto Dominion Centre | 100 |
| Dovercourt Village, Dufferin | 20 |
| First Canadian Place, Underground city | 100 |
| Forest Hill North, Forest Hill West | 4 |
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| Roselawn | 1 |
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| Ryerson, Garden District | 100 |
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| Studio District | 37 |
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| The Annex, North Midtown, Yorkville The Beaches The Beaches West, India Bazaar The Danforth West, Riverdale | | 24 4 22 44 |
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| Harbourfront, Regent Park | 46 | 46 |
| High Park, The Junction South | 23 | 23 |
| Lawrence Park | 4 | 4 |
| Little Portugal, Trinity | 63 | 63 |
| Moore Park, Summerhill East | 3 | 3 |
| North Toronto West | 20 | 20 |
| Parkdale, Roncesvalles | 15 | 15 |
| Rosedale | 4 | 4 |
| Roselawn | 1 | 1 |
| Runnymede, Swansea | 40 | 40 |
| Ryerson, Garden District | 100 | 100 |
| St. James Town | 100 | 100 |
| Stn A PO Boxes 25 The Esplanade | 95 | 95 |
| Studio District | 37 | 37 |
| The Annex, North Midtown, Yorkville | 24 | 24 |
| The Beaches | 4 | 4 |
| The Beaches West, India Bazaar | 22 | 22 |
| The Danforth West, Riverdale | 44 | 44 |

Neighborhood

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| Parkdale, Roncesvalles | 15 | |
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| Runnymede, Swansea | 40 | |
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| Venue Cate | egory | |
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      High Park, The Junction South
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      The Annex, North Midtown, Yorkville
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      The Beaches
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      The Beaches West, India Bazaar
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      The Danforth West, Riverdale
                                                              44
In [79]: \# one hot encoding
      toronto onehot = pd.get dummies(toronto venues[['Venue Category']], prefix ="", prefix sep="")
      # add neighborhood column back to dataframe
      toronto onehot['Neighborhood'] = toronto venues['Neighborhood']
      # move neighborhood column to the first column
      fixed columns = [toronto onehot.columns[-1]] + list(toronto onehot.columns[:-1])
      toronto onehot = toronto onehot [fixed columns]
      toronto onehot.head()
      toronto grouped = toronto onehot.groupby('Neighborhood').mean().reset index()
      toronto grouped
Out[79]:
                                      Neighborhood Yoga Studio \
      0
                            Adelaide, King, Richmond
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Chinatown, Grange Park, Kensington Market

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          0.000000
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                                                0.00000 0.000000
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                                                0.00000 \quad 0.000000
```

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0.00

24

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                                                 0.00000 0.000000
          0.000000
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                                    0.00
                                                 0.00000 \quad 0.000000
27
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                                    0.00
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          0.000000
                                    0.00
                                                 0.00000 \quad 0.000000
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          0.000000
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                                                 0.00000 \quad 0.000000
35
          0.000000
                                    0.00
                                                 0.00000 \quad 0.000000
          0.000000
36
                                    0.00
                                                 0.00000 0.000000
37
                                    0.00
                                                 0.00000 \quad 0.022727
          0.000000
   Train Station Vegetarian / Vegan Restaurant Video Game Store \
           0.00
                                  0.010000
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                                  0.017544
                                                    0.000000
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                                  0.000000
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           0.00
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0 1 2 3 4 0.00 0.000000 0.000000 5 0.00 0.0000000.0000006 0.00 0.0113640.000000 7 0.00 0.0600000.0000008 0.000.0000000.0000009 0.000.000000 0.01136410 0.00 0.0100000.000000 11 0.00 0.000000 0.000000 12 0.00 0.000000 0.000000 13 0.00 0.000000 0.000000 14 0.01 0.0100000.000000 15 0.00 0.000000 0.000000 0.01000016 0.010.000000 0.000000 17 0.00 0.000000 18 0.000.000000 0.029412 19 0.01 0.0100000.000000 20 0.00 0.000000 0.00000021 0.00 0.000000 0.000000 22 0.00 0.000000 0.00000023 0.000.0158730.00000024 0.00 0.000000 0.000000 25 0.00 0.0000000.0000000.00000026 0.00 0.000000 27 0.00 0.000000 0.000000 28 0.00 0.000000 0.000000 29 0.00 0.0250000.000000 30 0.00 0.0100000.010000 31 0.000.0100000.000000 32 0.00 0.0105260.000000

| 33 | 0.00 | 0.000000 | 0.000000 |
|----|------|----------|----------|
| 34 | 0.00 | 0.041667 | 0.000000 |
| 35 | 0.00 | 0.000000 | 0.000000 |
| 36 | 0.00 | 0.000000 | 0.000000 |
| 37 | 0.00 | 0.000000 | 0.000000 |

Vietnamese Restaurant Wine Bar Wings Joint 0 $0.000000 \quad 0.010000$ 0.0000001 $0.000000 \quad 0.000000$ 0.000000 2 $0.000000 \quad 0.000000$ 0.0000003 $0.000000 \quad 0.000000$ 0.000000 4 $0.000000 \quad 0.000000$ 0.0000005 $0.000000 \quad 0.000000$ 0.0000006 $0.000000 \quad 0.011364$ 0.0000007 $0.030000 \quad 0.010000$ 0.000000 8 $0.000000 \quad 0.000000$ 0.0000009 $0.011364 \ 0.000000$ 0.01136410 $0.000000 \quad 0.010000$ 0.000000 11 $0.000000 \quad 0.000000$ 0.00000012 $0.000000 \quad 0.000000$ 0.000000 13 $0.071429 \ 0.000000$ 0.00000014 $0.000000 \quad 0.010000$ 0.000000 15 $0.000000 \quad 0.000000$ 0.00000016 $0.000000 \quad 0.010000$ 0.00000017 $0.000000 \quad 0.000000$ 0.00000018 $0.000000 \quad 0.000000$ 0.000000 19 $0.000000 \quad 0.010000$ 0.000000 20 $0.000000 \quad 0.000000$ 0.000000 21 $0.000000 \quad 0.000000$ 0.000000 22 $0.000000 \quad 0.000000$ 0.000000 23 $0.031746 \ 0.015873$ 0.000000 $0.000000 \quad 0.000000$ 240.000000 25 $0.000000 \quad 0.000000$ 0.000000 26 $0.000000 \quad 0.000000$ 0.00000027 $0.000000 \quad 0.000000$ 0.000000 $0.000000 \quad 0.000000$ 28 0.000000 29 $0.000000 \quad 0.000000$ 0.000000 30 $0.010000 \quad 0.010000$ 0.00000031 $0.000000 \quad 0.000000$ 0.000000 32 $0.000000 \quad 0.000000$ 0.00000033 $0.000000 \quad 0.000000$ 0.00000034 $0.000000 \quad 0.000000$ 0.000000 35 $0.000000 \quad 0.000000$ 0.000000 36 $0.000000 \quad 0.000000$ 0.000000 37 $0.000000 \quad 0.000000$ 0.000000

[38 rows x 236 columns]

```
In [80]: def return most common venues (row, num top venues):
         row categories = row.iloc[1:]
         row categories sorted = row categories.sort values(ascending=False)
         return row categories sorted.index.values[0:num top venues]
In [101]: import numpy as np
       num top venues = 10
       indicators = ['st', 'nd', 'rd']
       # create columns according to number of top venues
       columns = ['Neighborhood']
       for ind in np.arange(num top venues):
          try:
            columns.append('{}}{} Most Common Venue'.format(ind+1, indicators[ind]))
            columns.append('{}th Most Common Venue'.format(ind+1))
       # create a new dataframe
       neighborhoods venues sorted = pd.DataFrame(columns=columns)
       neighborhoods venues sorted['Neighborhood'] = toronto grouped['Neighborhood']
       for ind in np.arange(toronto grouped.shape[0]):
          neighborhoods venues sorted.iloc[ind, 1:] = return most common venues(toronto grouped.iloc[ind
       neighborhoods venues sorted.head()
                                     Neighborhood 1st Most Common Venue \
Out[101]:
                           Adelaide, King, Richmond
      0
                                                           Coffee Shop
                                    Berczy Park
       1
                                                       Coffee Shop
       2
             Brockton, Exhibition Place, Parkdale Village
                                                                    Café
       3 Business Reply Mail Processing Centre 969 Eastern
                                                           Light Rail Station
       4 CN Tower, Bathurst Quay, Island airport, Harbo...
                                                               Airport Service
        2nd Most Common Venue 3rd Most Common Venue 4th Most Common Venue \
                     Café
                              Thai Restaurant
                                                      Steakhouse
       0
               Cocktail Bar
                                                    Cheese Shop
       1
                                        Café
       2
              Breakfast Spot
                                   Coffee Shop
                                                     Grocery Store
                              Recording Studio
       3
                   Garden
                                                     Auto Workshop
       4
              Airport Lounge
                                Airport Terminal
                                                     Harbor / Marina
        5th Most Common Venue 6th Most Common Venue 7th Most Common Venue \
                                           Bar
                                                      Burger Joint
          American Restaurant
       0
       1
              Farmers Market
                                      Beer Bar
                                                       Steakhouse
       2
          Italian Restaurant Caribbean Restaurant
                                                            Stadium
                                 Burrito Place Fast Food Restaurant
       3
                Skate Park
```

```
Plane
       4
            Sculpture Garden
                                      Boutique
        8th Most Common Venue 9th Most Common Venue 10th Most Common Venue
       0
                     Gym
                                       Hotel
                                                        Bakery
           Seafood Restaurant
                                                             Bakery
       1
                                       Restaurant
       2
                                                       Burrito Place
                     Bar Furniture / Home Store
       3
             Farmers Market
                                        Brewery
                                                         Restaurant
              Boat or Ferry
                                                           Airport
       4
                                   Airport Gate
In [102]: \# set number of clusters
       kclusters = 5
       toronto grouped clustering = toronto grouped.drop('Neighborhood', 1)
       # run k-means clustering
       kmeans = KMeans(n clusters=kclusters, random state=0).fit(toronto grouped clustering)
       # check cluster labels generated for each row in the dataframe
       kmeans.labels [0:10]
       neighborhoods venues sorted.head()
Out[102]:
                                     Neighborhood 1st Most Common Venue \
                           Adelaide, King, Richmond
                                                           Coffee Shop
       1
                                    Berczy Park
                                                       Coffee Shop
       2
             Brockton, Exhibition Place, Parkdale Village
                                                                    Café
       3 Business Reply Mail Processing Centre 969 Eastern
                                                            Light Rail Station
       4 CN Tower, Bathurst Quay, Island airport, Harbo...
                                                               Airport Service
        2nd Most Common Venue 3rd Most Common Venue 4th Most Common Venue
       0
                     Café
                              Thai Restaurant
                                                      Steakhouse
       1
               Cocktail Bar
                                        Café
                                                    Cheese Shop
       2
             Breakfast Spot
                                   Coffee Shop
                                                     Grocery Store
       3
                   Garden
                              Recording Studio
                                                     Auto Workshop
       4
             Airport Lounge
                                Airport Terminal
                                                     Harbor / Marina
        5th Most Common Venue 6th Most Common Venue 7th Most Common Venue \
          American Restaurant
                                           Bar
                                                      Burger Joint
       1
             Farmers Market
                                      Beer Bar
                                                       Steakhouse
       2
          Italian Restaurant Caribbean Restaurant
                                                            Stadium
                                 Burrito Place Fast Food Restaurant
       3
                Skate Park
       4
            Sculpture Garden
                                      Boutique
                                                           Plane
        8th Most Common Venue 9th Most Common Venue 10th Most Common Venue
                                       Hotel
       0
                     Gvm
                                                        Bakery
       1
          Seafood Restaurant
                                       Restaurant
                                                             Bakery
       2
                     Bar Furniture / Home Store
                                                       Burrito Place
       3
             Farmers Market
                                        Brewery
                                                         Restaurant
```

Airport

Airport Gate

4

Boat or Ferry

```
In [103]: \# add clustering labels
       neighborhoods venues sorted.insert(0, 'Cluster Labels', kmeans.labels')
       toronto merged = toronto neigh.reset index(drop=True)
       # merge toronto grouped with toronto data to add latitude/longitude for each neighborhood
       toronto merged toronto merged join (neighborhoods venues sorted set index ('Neighborhood'), on='.
       toronto merged.head() # check the last columns!
Out[103]: Postcode
                         Borough
                                               Neighbourhood Postal Code \
                                               The Beaches
            M4E
                    East Toronto
                                                                 M4E
       1
            M4K
                    East Toronto
                                   The Danforth West, Riverdale
                                                                     M4K
       2
                    East Toronto The Beaches West, India Bazaar
            M4L
                                                                      M4L
       3
            M4M
                    East Toronto
                                            Studio District
                                                                M4M
       4
            M4N Central Toronto
                                              Lawrence Park
                                                                  M4N
         Latitude Longitude Cluster Labels 1st Most Common Venue \
                                            Health Food Store
       0 43.676357 -79.293031
                                       1
                                            Greek Restaurant
       1 43.679557 -79.352188
       2 43.668999 -79.315572
                                       1
                                                     Park
       3 43.659526 -79.340923
                                       1
                                                     Café
       4 43.728020 -79.388790
                                       1
                                                  Bus Line
        2nd Most Common Venue
                                     3rd Most Common Venue 4th Most Common Venue \
                     Pub
                                     Music Venue
                                                        Wings Joint
       0
                                                      Italian Restaurant
               Coffee Shop
                                    Ice Cream Shop
       1
       2
             Sandwich Place
                                                      Food & Drink Shop
                                        Coffee Shop
       3
               Coffee Shop
                                          Bakery
                                                   Italian Restaurant
       4
                    Park Construction & Landscaping
                                                            Swim School
        5th Most Common Venue 6th Most Common Venue 7th Most Common Venue \
            Department Store
                               Ethiopian Restaurant
       0
                                                       Electronics Store
                 Bookstore Furniture / Home Store
       1
                                                      Bubble Tea Shop
       2
               Liquor Store
                                      Brewery
                                                 Light Rail Station
       3
          American Restaurant
                                            Bank
                                                              Bar
                                                     Electronics Store
       4
               Wings Joint
                             Ethiopian Restaurant
             8th Most Common Venue 9th Most Common Venue 10th Most Common Venue
         Eastern European Restaurant Dumpling Restaurant
                                                                    Donut Shop
                        Bakery
                                       Sports Bar
       1
                                                               Spa
       2
                    Burger Joint
                                      Burrito Place Fast Food Restaurant
                    Fish Market
                                   Convenience Store
       3
                                                              Bookstore
       4 Eastern European Restaurant Dumpling Restaurant
                                                                    Donut Shop
In [109]: address = 'Toronto, CA'
       geolocator = Nominatim(user agent="ny explorer")
```

```
location = geolocator.geocode(address)
       latitude = location.latitude
       longitude = location.longitude
       # create map
       map clusters = folium.Map(location=[latitude, longitude], zoom start=12)
       \# set color scheme for the clusters
       x = np.arange(kclusters)
       ys = [i + x + (i*x)**2 \text{ for } i \text{ in range(kclusters)}]
       colors\_array = cm.rainbow(np.linspace(0, 1, len(ys)))
       rainbow = [colors.rgb2hex(i) for i in colors_array]
       # add markers to the map
       markers colors = []
       for lat, lon, poi, cluster in zip(toronto_merged['Latitude'], toronto_merged['Longitude'], toronto_merged
          label = folium.Popup(str(poi) + 'Cluster' + str(cluster), parse html=True)
          folium.CircleMarker(
              [lat, lon],
              radius=5,
              popup=label,
              color=rainbow[cluster-1],
              fill=True,
             fill color=rainbow[cluster-1],
             fill opacity=0.7).add to(map clusters)
       map clusters
Out[109]: <folium.folium.Map at 0x7f0165d53978>
In []:
In []:
```