

Toronto_Capstone_W3

August 25, 2019

1 Segmenting and Clustering Neighborhoods in Toronto - Assignment Week3

```
[1]: pip install beautifulsoup4
```

```
Collecting beautifulsoup4
  Downloading https://files.pythonhosted.org/packages/1a/b7/34eec2fe5a4971
8944e215fde81288eec1fa04638aa3fb57c1c6cd0f98c3/beautifulsoup4-4.8.0-py3-none-
any.whl (97kB)
    |                                     | 102kB 994kB/s ta 0:00:01
Collecting soupsieve>=1.2 (from beautifulsoup4)
  Downloading https://files.pythonhosted.org/packages/0b/44/0474f2207fdd601bb257
87671c81076333d2c80e6f97e92790f8887cf682/soupsieve-1.9.3-py2.py3-none-any.whl
Installing collected packages: soupsieve, beautifulsoup4
Successfully installed beautifulsoup4-4.8.0 soupsieve-1.9.3
Note: you may need to restart the kernel to use updated packages.
```

```
[2]: pip install lxml #used in the Tutorial
```

```
Collecting lxml
  Downloading https://files.pythonhosted.org/packages/ec/be/5ab8abdd8663c0
386ec2dd595a5bc0e23330a0549b8a91e32f38c20845b6/lxml-4.4.1-cp36-cp36m-manylinux1_
x86_64.whl (5.8MB)
    |                                     | 5.8MB 3.0MB/s eta 0:00:01
Installing collected packages: lxml
Successfully installed lxml-4.4.1
Note: you may need to restart the kernel to use updated packages.
```

```
[3]: pip install html5lib #only for reference - it wasn't used in the Tutorial on
↳ Youtube
```

```
Requirement already satisfied: html5lib in
/home/jupyterlab/conda/envs/python/lib/python3.6/site-packages (0.9999999)
Requirement already satisfied: six in
/home/jupyterlab/conda/envs/python/lib/python3.6/site-packages (from html5lib)
(1.12.0)
Note: you may need to restart the kernel to use updated packages.
```

```
[4]: pip install requests
```

```
Requirement already satisfied: requests in
/home/jupyterlab/conda/envs/python/lib/python3.6/site-packages (2.22.0)
Requirement already satisfied: urllib3!=1.25.0,!1.25.1,<1.26,>=1.21.1 in
/home/jupyterlab/conda/envs/python/lib/python3.6/site-packages (from requests)
(1.24.3)
Requirement already satisfied: chardet<3.1.0,>=3.0.2 in
/home/jupyterlab/conda/envs/python/lib/python3.6/site-packages (from requests)
(3.0.4)
Requirement already satisfied: idna<2.9,>=2.5 in
/home/jupyterlab/conda/envs/python/lib/python3.6/site-packages (from requests)
(2.8)
Requirement already satisfied: certifi>=2017.4.17 in
/home/jupyterlab/conda/envs/python/lib/python3.6/site-packages (from requests)
(2019.6.16)
Note: you may need to restart the kernel to use updated packages.
```

```
[5]: from bs4 import BeautifulSoup
import requests
import pandas as pd
import numpy as np
```

1.0.1 Let's start by scrapping Wikipedia website and transforming it into a pandas data frame, then working on the data frame:

```
[6]: #extract the HTML content of the website
website_url = requests.get('https://en.wikipedia.org/wiki/
↳List_of_postal_codes_of_Canada:M').text
soup = BeautifulSoup(website_url,'lxml')
print(soup.prettify())
```

```
<!DOCTYPE html>
<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
      (/^(\\s)client-nojs(\\s|$)/,"$1client-js$2");RLCONF={"wgCanonicalNamespace":"","w
      gCanonicalSpecialPageName":!1,"wgNamespaceNumber":0,"wgPageName":"List_of_postal
      _codes_of_Canada:M","wgTitle":"List of postal codes of Canada: M","wgCurRevisio
      nId":906439794,"wgRevisionId":906439794,"wgArticleId":539066,"wgIsArticle":!0,"w
      gIsRedirect":!1,"wgAction":"view","wgUserName":null,"wgUserGroups":["*"],"wgCate
      gories":["Communications in Ontario","Postal codes in
```

```

Canada","Toronto","Ontario-related lists"],["wgBreakFrames":!1,"wgPageContentLang
uage":"en","wgPageContentModel":"wikitext","wgSeparatorTransformTable":["",""],"
wgDigitTransformTable":["",""],"wgDefaultDateFormat":"dmy","wgMonthNames":["","J
anuary","February","March","April","May","June","July","August","September","Oct
ober","November","December"],["wgMonthNamesShort":["","Jan","Feb","Mar","Apr","Ma
y","Jun","Jul","Aug","Sep","Oct","Nov","Dec"]],
"wgRelevantPageName":"List_of_postal_codes_of_Canada:_M","wgRelevantArticleId":5
39066,"wgRequestId":"XWCaMQpAAEAAAGr4xmMAAABA","wgCSPNonce":!1,"wgIsProbablyEdit
able":!0,"wgRelevantPageIsProbablyEditable":!0,"wgRestrictionEdit":[],"wgRestric
tionMove":[],"wgMediaViewerOnClick":!0,"wgMediaViewerEnabledByDefault":!0,"wgPop
upsReferencePreviews":!1,"wgPopupsConflictsWithNavPopupGadget":!1,"wgVisualEdito
r":{"pageLanguageCode":"en","pageLanguageDir":"ltr","pageVariantFallbacks":"en"}
,"wgMFDisplayWikibaseDescriptions":{"search":!0,"nearby":!0,"watchlist":!0,"tagl
ine":!1},"wgWMESchemaEditAttemptStepOversample":!1,"wgPoweredByHHVM":!0,"wgULSCu
rrentAutonym":"English","wgNoticeProject":"wikipedia","wgWikibaseItemId":"Q32482
40","wgCentralAuthMobileDomain":!1,"wgEditSubmitButtonLabelPublish":!0};RLSTATE=
{"ext.gadget.charinsert-styles":"ready","ext.globalCssJs.user.styles":"ready","e
xt.globalCssJs.site.styles":"ready","site.styles":"ready","noscript":"ready",
"user.styles":"ready","ext.globalCssJs.user":"ready","ext.globalCssJs.site":"rea
dy","user":"ready","user.options":"ready","user.tokens":"loading","ext.cite.styl
es":"ready","mediawiki.legacy.shared":"ready","mediawiki.legacy.commonPrint":"re
ady","jquery.tablesorter.styles":"ready","wikibase.client.init":"ready","ext.vis
ualEditor.desktopArticleTarget.noscript":"ready","ext.uls.interlanguage":"ready"
,"ext.wikimediaBadges":"ready","ext.3d.styles":"ready","mediawiki.skinning.inter
face":"ready","skins.vector.styles":"ready"};RLPAGEMODULES=["ext.cite.ux-enhance
ments","site","mediawiki.page.startup","mediawiki.page.ready","jquery.tablesorte
r","mediawiki.searchSuggest","ext.gadget.teahouse","ext.gadget.ReferenceTooltips
","ext.gadget.watchlist-notice","ext.gadget.DRN-
wizard","ext.gadget.charinsert","ext.gadget.refToolbar","ext.gadget.extra-
toolbar-buttons","ext.gadget.switcher","ext.centralauth.centralautologin","mmv.h
ead","mmv.bootstrap.autostart","ext.popups",
"ext.visualEditor.desktopArticleTarget.init","ext.visualEditor.targetLoader","ex
t.eventLogging","ext.wikimediaEvents","ext.navigationTiming","ext.uls.compactlin
ks","ext.uls.interface","ext.cx.eventlogging.campaigns","ext.quicksurveys.init",
"ext.centralNotice.geoIP","ext.centralNotice.startUp","skins.vector.js"];
</script>
<script>
(RLQ=window.RLQ||[]).push(function(){mw.loader.implement("user.tokens@0tffind
",function($,jQuery,require,module){/*@nomin*/mw.user.tokens.set({"editToken":"+
\\","patrolToken":"+\\","watchToken":"+\\","csrfToken":"+\\"}));
});});
</script>
<link href="/w/load.php?lang=en&modules=ext.3d.styles%7Cext.cite.styles%7C
ext.uls.interlanguage%7Cext.visualEditor.desktopArticleTarget.noscript%7Cext.wik
imediaBadges%7Cjquery.tablesorter.styles%7Cmediawiki.legacy.commonPrint%2Cshared
%7Cmediawiki.skinning.interface%7Cskins.vector.styles%7Cwikibase.client.init&
only=styles&skin=vector" rel="stylesheet"/>
<script async="" src="/w/load.php?lang=en&modules=startup&only=scripts

```

```

&raw=1&skin=vector">
  </script>
  <meta content="" name="ResourceLoaderDynamicStyles"/>
  <link href="/w/load.php?lang=en&modules=ext.gadget.charinsert-
styles&only=styles&skin=vector" rel="stylesheet"/>
  <link href="/w/load.php?lang=en&modules=site.styles&only=styles&sk
in=vector" rel="stylesheet"/>
  <meta content="MediaWiki 1.34.0-wmf.19" name="generator"/>
  <meta content="origin" name="referrer"/>
  <meta content="origin-when-crossorigin" name="referrer"/>
  <meta content="origin-when-cross-origin" name="referrer"/>
  <link href="android-app://org.wikipedia/http/en.m.wikipedia.org/wiki/List_of_p
ostal_codes_of_Canada:_M" rel="alternate"/>
  <link
href="/w/index.php?title=List_of_postal_codes_of_Canada:_M&action=edit"
rel="alternate" title="Edit this page" type="application/x-wiki"/>
  <link
href="/w/index.php?title=List_of_postal_codes_of_Canada:_M&action=edit"
rel="edit" title="Edit this page"/>
  <link href="/static/apple-touch/wikipedia.png" rel="apple-touch-icon"/>
  <link href="/static/favicon/wikipedia.ico" rel="shortcut icon"/>
  <link href="/w/openserch_desc.php" rel="search" title="Wikipedia (en)"
type="application/openserchdescription+xml"/>
  <link href="//en.wikipedia.org/w/api.php?action=rsd" rel="EditURI"
type="application/rsd+xml"/>
  <link href="//creativecommons.org/licenses/by-sa/3.0/" rel="license"/>
  <link href="https://en.wikipedia.org/wiki/List_of_postal_codes_of_Canada:_M"
rel="canonical"/>
  <link href="//login.wikimedia.org" rel="dns-prefetch"/>
  <link href="//meta.wikimedia.org" rel="dns-prefetch"/>
  <!--[if lt IE 9]><script
src="/w/resources/lib/html5shiv/html5shiv.js"></script><![endif]-->
</head>
<body class="mediawiki ltr sitedir-ltr mw-hide-empty-elt ns-0 ns-subject mw-
editable page-List_of_postal_codes_of_Canada_M rootpage-
List_of_postal_codes_of_Canada_M skin-vector action-view">
  <div class="noprint" id="mw-page-base">
  </div>
  <div class="noprint" id="mw-head-base">
  </div>
  <div class="mw-body" id="content" role="main">
    <a id="top">
    </a>
    <div class="mw-body-content" id="siteNotice">
      <!-- CentralNotice -->
    </div>
    <div class="mw-indicators mw-body-content">
    </div>

```

```

<h1 class="firstHeading" id="firstHeading" lang="en">
  List of postal codes of Canada: M
</h1>
<div class="mw-body-content" id="bodyContent">
  <div class="noprint" id="siteSub">
    From Wikipedia, the free encyclopedia
  </div>
  <div id="contentSub">
  </div>
  <div id="jump-to-nav">
  </div>
  <a class="mw-jump-link" href="#mw-head">
    Jump to navigation
  </a>
  <a class="mw-jump-link" href="#p-search">
    Jump to search
  </a>
  <div class="mw-content-ltr" dir="ltr" id="mw-content-text" lang="en">
    <div class="mw-parser-output">
      <p>
        This is a list of
        <a href="/wiki/Postal_codes_in_Canada" title="Postal codes in Canada">
          postal codes in Canada
        </a>
        where the first letter is M. Postal codes beginning with M are located
within the city of
        <a href="/wiki/Toronto" title="Toronto">
          Toronto
        </a>
        in the province of
        <a href="/wiki/Ontario" title="Ontario">
          Ontario
        </a>
        . Only the first three characters are listed, corresponding to the
Forward Sortation Area.
      </p>
      <p>
        <a href="/wiki/Canada_Post" title="Canada Post">
          Canada Post
        </a>
        provides a free postal code look-up tool on its website,
        <sup class="reference" id="cite_ref-1">
          <a href="#cite_note-1">
            [1]
          </a>
        </sup>
        via its
        <a href="/wiki/Mobile_app" title="Mobile app">

```

applications

 for such

 smartphones

 as the

 iPhone

 and

 BlackBerry

 ,
 <sup class="reference" id="cite_ref-2">

 [2]

 </sup>
 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>
 <h2>

 Toronto

 -
 <a href="/wiki/Postal_codes_in_Canada#Forward_sortation_areas"
 title="Postal codes in Canada">
 FSAs

 [

 <a href="/w/index.php?title=List_of_postal_codes_of_Canada:_M&action
 =edit§ion=1" title="Edit section: Toronto - FSAs">
 edit


```

]
</span>
</span>
</h2>
<p>

```

Note: There are no rural FSAs in Toronto, hence no postal codes should start with M0, however, the postal code M0R 8T0 is assigned to an amazon warehouse in Mississauga, suggesting that Canada Post may be allocating the M0 FSA for high volume addresses.

```

</p>
<table class="wikitable sortable">
  <tbody>
    <tr>
      <th>
        Postcode
      </th>
      <th>
        Borough
      </th>
      <th>
        Neighbourhood
      </th>
    </tr>
    <tr>
      <td>
        M1A
      </td>
      <td>
        Not assigned
      </td>
      <td>
        Not assigned
      </td>
    </tr>
    <tr>
      <td>
        M2A
      </td>
      <td>
        Not assigned
      </td>
      <td>
        Not assigned
      </td>
    </tr>
    <tr>
      <td>
        M3A

```

```

</td>
<td>
  <a href="/wiki/North_York" title="North York">
    North York
  </a>
</td>
<td>
  <a href="/wiki/Parkwoods" title="Parkwoods">
    Parkwoods
  </a>
</td>
</tr>
<tr>
<td>
  M4A
</td>
<td>
  <a href="/wiki/North_York" title="North York">
    North York
  </a>
</td>
<td>
  <a href="/wiki/Victoria_Village" title="Victoria Village">
    Victoria Village
  </a>
</td>
</tr>
<tr>
<td>
  M5A
</td>
<td>
  <a href="/wiki/Downtown_Toronto" title="Downtown Toronto">
    Downtown Toronto
  </a>
</td>
<td>
  <a href="/wiki/Harbourfront_(Toronto)" title="Harbourfront (Toronto)">
    Harbourfront
  </a>
</td>
</tr>
<tr>
<td>
  M5A
</td>
<td>
  <a href="/wiki/Downtown_Toronto" title="Downtown Toronto">

```



```

        </td>
        <td>
            Not assigned
        </td>
    </tr>
    <tr>
        <td>
            M8A
        </td>
        <td>
            Not assigned
        </td>
        <td>
            Not assigned
        </td>
    </tr>
    <tr>
        <td>
            M9A
        </td>
        <td>
            <a href="/wiki/Etobicoke" title="Etobicoke">
                Etobicoke
            </a>
        </td>
        <td>
            <a class="mw-redirect" href="/wiki/Islington_Avenue" title="Islington
Avenue">
                Islington Avenue
            </a>
        </td>
    </tr>
    <tr>
        <td>
            M1B
        </td>
        <td>
            <a href="/wiki/Scarborough,_Toronto" title="Scarborough, Toronto">
                Scarborough
            </a>
        </td>
        <td>
            <a href="/wiki/Rouge,_Toronto" title="Rouge, Toronto">
                Rouge
            </a>
        </td>
    </tr>
    <tr>

```

M1B	Scarborough
Malvern	
M2B	Not assigned
Not assigned	
M3B	
North York	
Don Mills North	
M4B	
East York	

```

        <a class="mw-redirect" href="/wiki/Woodbine_Gardens" title="Woodbine
Gardens">
            Woodbine Gardens
        </a>
    </td>
</tr>
<tr>
    <td>
        M4B
    </td>
    <td>
        <a href="/wiki/East_York" title="East York">
            East York
        </a>
    </td>
    <td>
        <a class="mw-redirect" href="/wiki/Parkview_Hill" title="Parkview
Hill">
            Parkview Hill
        </a>
    </td>
</tr>
<tr>
    <td>
        M5B
    </td>
    <td>
        <a href="/wiki/Downtown_Toronto" title="Downtown Toronto">
            Downtown Toronto
        </a>
    </td>
    <td>
        Ryerson
    </td>
</tr>
<tr>
    <td>
        M5B
    </td>
    <td>
        <a href="/wiki/Downtown_Toronto" title="Downtown Toronto">
            Downtown Toronto
        </a>
    </td>
    <td>
        Garden District
    </td>
</tr>

```

M6B	North York
Glencairn	
M7B	Not assigned
	Not assigned
M8B	Not assigned
	Not assigned
M9B	Etobicoke
	Cloverdale

```

<tr>
  <td>
    M9B
  </td>
  <td>
    <a href="/wiki/Etobicoke" title="Etobicoke">
      Etobicoke
    </a>
  </td>
  <td>
    <a class="mw-redirect" href="/wiki/Islington,_Toronto"
title="Islington, Toronto">
      Islington
    </a>
  </td>
</tr>
<tr>
  <td>
    M9B
  </td>
  <td>
    <a href="/wiki/Etobicoke" title="Etobicoke">
      Etobicoke
    </a>
  </td>
  <td>
    Martin Grove
  </td>
</tr>
<tr>
  <td>
    M9B
  </td>
  <td>
    <a href="/wiki/Etobicoke" title="Etobicoke">
      Etobicoke
    </a>
  </td>
  <td>
    <a href="/wiki/Princess_Gardens" title="Princess Gardens">
      Princess Gardens
    </a>
  </td>
</tr>
<tr>
  <td>
    M9B
  </td>

```

```
 Etobicoke ||  |
| M1C |  |
|  |  |
|  | M1C |
| M1C |  |

```

```

    <a href="/wiki/Scarborough,_Toronto" title="Scarborough, Toronto">
      Scarborough
    </a>
  </td>
</td>
  <a href="/wiki/Port_Union,_Toronto" title="Port Union, Toronto">
    Port Union
  </a>
</td>
</tr>
<tr>
  <td>
    M2C
  </td>
  <td>
    Not assigned
  </td>
  <td>
    Not assigned
  </td>
</tr>
<tr>
  <td>
    M3C
  </td>
  <td>
    <a href="/wiki/North_York" title="North York">
      North York
    </a>
  </td>
  <td>
    <a href="/wiki/Flemingdon_Park" title="Flemingdon Park">
      Flemingdon Park
    </a>
  </td>
</tr>
<tr>
  <td>
    M3C
  </td>
  <td>
    <a href="/wiki/North_York" title="North York">
      North York
    </a>
  </td>
  <td>
    Don Mills South
  </td>
</tr>

```



```

</tr>
<tr>
  <td>
    M4C
  </td>
  <td>
    <a href="/wiki/East_York" title="East York">
      East York
    </a>
  </td>
  <td>
    <a class="mw-redirect" href="/wiki/Woodbine_Heights" title="Woodbine
Heights">
      Woodbine Heights
    </a>
  </td>
</tr>
<tr>
  <td>
    M5C
  </td>
  <td>
    <a href="/wiki/Downtown_Toronto" title="Downtown Toronto">
      Downtown Toronto
    </a>
  </td>
  <td>
    <a href="/wiki/St._James_Town" title="St. James Town">
      St. James Town
    </a>
  </td>
</tr>
<tr>
  <td>
    M6C
  </td>
  <td>
    York
  </td>
  <td>
    <a class="mw-redirect" href="/wiki/Humewood-Cedarvale"
title="Humewood-Cedarvale">
      Humewood-Cedarvale
    </a>
  </td>
</tr>
<tr>
  <td>

```

M7C	
	Not assigned
	Not assigned

M8C	
	Not assigned
	Not assigned

M9C	Etobicoke
	Bloordale Gardens

M9C	Etobicoke
	Eringate

--	--

M9C	
	Etobicoke
	Markland Wood
M9C	
	Etobicoke
	Old Burnhamthorpe
M1E	
	Scarborough
	Guildwood
M1E	
	Scarborough

Morningside	
M1E	
Scarborough	
West Hill	
M2E	
Not assigned	
Not assigned	
M3E	
Not assigned	
Not assigned	
M4E	

```

    <a href="/wiki/East_Toronto" title="East Toronto">
      East Toronto
    </a>
  </td>
</td>
  <a href="/wiki/The_Beaches" title="The Beaches">
    The Beaches
  </a>
</td>
</tr>
<tr>
  <td>
    M5E
  </td>
  <td>
    <a href="/wiki/Downtown_Toronto" title="Downtown Toronto">
      Downtown Toronto
    </a>
  </td>
  <td>
    <a href="/wiki/Berczy_Park" title="Berczy Park">
      Berczy Park
    </a>
  </td>
</tr>
<tr>
  <td>
    M6E
  </td>
  <td>
    York
  </td>
  <td>
    Caledonia-Fairbanks
  </td>
</tr>
<tr>
  <td>
    M7E
  </td>
  <td>
    Not assigned
  </td>
  <td>
    Not assigned
  </td>
</tr>
<tr>

```

M8E	Not assigned
Not assigned	Not assigned
M9E	Not assigned
Not assigned	Not assigned
M1G	Scarborough
Woburn	
M2G	Not assigned
Not assigned	

M3G	Not assigned
M4G	East York
M5G	Leaside
M6G	Downtown Toronto
Central Bay Street	
M6G	Downtown Toronto

Christie	
M7G	Not assigned
	Not assigned
M8G	Not assigned
	Not assigned
M9G	Not assigned
	Not assigned
M1H	
 Scarborough 	
Cedarbrae	


```

</tr>
<tr>
  <td>
    M2H
  </td>
  <td>
    <a href="/wiki/North_York" title="North York">
      North York
    </a>
  </td>
  <td>
    <a href="/wiki/Hillcrest_Village" title="Hillcrest Village">
      Hillcrest Village
    </a>
  </td>
</tr>
<tr>
  <td>
    M3H
  </td>
  <td>
    <a href="/wiki/North_York" title="North York">
      North York
    </a>
  </td>
  <td>
    <a href="/wiki/Bathurst_Manor" title="Bathurst Manor">
      Bathurst Manor
    </a>
  </td>
</tr>
<tr>
  <td>
    M3H
  </td>
  <td>
    <a href="/wiki/North_York" title="North York">
      North York
    </a>
  </td>
  <td>
    Downsvieview North
  </td>
</tr>
<tr>
  <td>
    M3H
  </td>

```

```
 North York | Wilson Heights || M4H | East York |
| Thorncliffe Park |  |
| M5H | Downtown Toronto |
| Adelaide |  |
| M5H | Downtown Toronto |

```

```

        </td>
        <td>
            King
        </td>
    </tr>
    <tr>
        <td>
            M5H
        </td>
        <td>
            <a href="/wiki/Downtown_Toronto" title="Downtown Toronto">
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Harbourfront East	
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	Toronto Islands
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M5J	
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	Downtown Toronto
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(Toronto)	(Toronto)
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M6J	
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	West Toronto
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	Little Portugal, Toronto
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Clairlea	

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Humberlea	
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Birch Cliff	
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Cliffside West	
M2N	North York

North York	
Willowdale South	
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Harbord	
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Most populated FSAs [\[3\]](#cite_note-statcan-3) [


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        <a href="/w/index.php?title=List_of_postal_codes_of_Canada:_M&action=edit&section=2" title="Edit section: Most populated FSAs[3]">
            edit
        </a>
        <span class="mw-editsection-bracket">
            ]
        </span>
    </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>
<p>
</p>
<table cellpadding="2" cellspacing="0" rules="all" style="width:100%; border-collapse:collapse; border:1px solid #ccc;">
    <tbody>
        <tr>
            <td>
            </td>
        </tr>
    </tbody>
</table>
</div>
<p>
</p>
<h2>
    <span id="Least_populated_FSAs.5B3.5D">
    </span>
    <span class="mw-headline" id="Least_populated_FSAs[3]">
        Least populated FSAs
        <sup class="reference" id="cite_ref-statcan_3-1">
            <a href="#cite_note-statcan-3">
                [3]

```

```

    </a>
  </sup>
</span>
<span class="mw-editsection">
  <span class="mw-editsection-bracket">
    [
  </span>
  <a href="/w/index.php?title=List_of_postal_codes_of_Canada:_M&action
=edit&section=3" title="Edit section: Least populated FSAs [3]">
    edit
  </a>
  <span class="mw-editsection-bracket">
    ]
  </span>
</span>
</h2>
<ol>
<li>
  M5K, 5
</li>
<li>
  M5L, 5
</li>
<li>
  M5W, 5
</li>
<li>
  M5X, 5
</li>
<li>
  M7A, 5
</li>
</ol>
<p>
</p>
<h2>
  <span class="mw-headline" id="References">
    References
  </span>
  <span class="mw-editsection">
    <span class="mw-editsection-bracket">
      [
    </span>
    <a href="/w/index.php?title=List_of_postal_codes_of_Canada:_M&action
=edit&section=4" title="Edit section: References">
      edit
    </a>
    <span class="mw-editsection-bracket">

```

```

]
</span>
</span>
</h2>
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<b>
<a href="#cite_ref-1">
^
</a>
</b>
</span>
<span class="reference-text">
<cite class="citation web">
Canada Post.
<a class="external text" href="https://www.canadapost.ca/cpotools/app
s/fpc/personal/findByCity?execution=e2s1" rel="nofollow">
"Canada Post - Find a Postal Code"
</a>
<span class="reference-accessdate">
. Retrieved
<span class="nowrap">
9 November
</span>
2008
</span>
.
</cite>
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ofi%2Ffmt%3Akev%3Amtx%3Abook&amp;rft.genre=unknown&amp;rft.btitle=Canada+Post+-+
Find+a+Postal+Code&amp;rft.au=Canada+Post&amp;rft_id=https%3A%2F%2Fwww.canadapos
t.ca%2Fcpotools%2Fapps%2Ffpc%2Fpersonal%2FfindByCity%3Fexecution%3De2s1&amp;rfr_
id=info%3Aid%2Fen.wikipedia.org%3AList+of+postal+codes+of+Canada%3A+M">
</span>
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.citation q{quotes:"\"\"\"\"".mw-parser-output .citation .cs1-lock-free
a{background:url("//upload.wikimedia.org/wikipedia/commons/thumb/6/65/Lock-
green.svg/9px-Lock-green.svg.png")no-repeat;background-position:right .1em
center}.mw-parser-output .citation .cs1-lock-limited a,.mw-parser-output
.citation .cs1-lock-registration
a{background:url("//upload.wikimedia.org/wikipedia/commons/thumb/d/d6/Lock-gray-
alt-2.svg/9px-Lock-gray-alt-2.svg.png")no-repeat;background-position:right .1em
center}.mw-parser-output .citation .cs1-lock-subscription
a{background:url("//upload.wikimedia.org/wikipedia/commons/thumb/a/aa/Lock-red-
alt-2.svg/9px-Lock-red-alt-2.svg.png")no-repeat;background-position:right .1em

```

```

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parser-output .cs1-ws-icon a{background:url("//upload.wikimedia.org/wikipedia/co
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repeat;background-position:right .1em center}.mw-parser-output code.cs1-code{col
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.cs1-format{font-size:95%}.mw-parser-output .cs1-kern-left,.mw-parser-output
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^
</a>
</b>
</span>
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3024/http://www.canadapost.ca/cpo/mc/personal/tools/mobileapp/default.jsf"
rel="nofollow">
"Mobile Apps"
</a>
. Canada Post. Archived from
<a class="external text"
href="http://www.canadapost.ca/cpo/mc/personal/tools/mobileapp/default.jsf"
rel="nofollow">
the original
</a>
on 2011-05-19.
</cite>
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ofi%2Ffmt%3Akev%3Amtx%3Abook&amp;rft.genre=unknown&amp;rft.btitle=Mobile+Apps&am
p;rft.pub=Canada+Post&amp;rft_id=http%3A%2F%2Fwww.canadapost.ca%2Fcpo%2Fmc%2Fper
sonal%2Ftools%2Fmobileapp%2Fdefault.jsf&amp;rfr_id=info%3Asid%2Fen.wikipedia.org
%3AList+of+postal+codes+of+Canada%3A+M">
</span>
<link href="mw-data:TemplateStyles:r886058088" rel="mw-deduplicated-
inline-style"/>

```

```

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    <span class="mw-cite-backlink">
      ~
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        <sup>
          <i>
            <b>
              a
            </b>
          </i>
        </sup>
      </a>
      <a href="#cite_ref-statcan_3-1">
        <sup>
          <i>
            <b>
              b
            </b>
          </i>
        </sup>
      </a>
    </span>
    <span class="reference-text">
      <cite class="citation web">
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06/data/popdwell/Table.cfm?T=1201&amp;SR=1&amp;S=0&amp;O=A&amp;RPP=9999&amp;PR=0
&amp;CMA=0" rel="nofollow">
          "2006 Census of Population"
        </a>
        . 15 October 2008.
      </cite>
      <span class="Z3988" title="ctx_ver=Z39.88-2004&amp;rft_val_fmt=info%3A
ofi%2Ffmt%3Akev%3Amtx%3Abook&amp;rft.genre=unknown&amp;rft.btitle=2006+Census+of
+Population&amp;rft.date=2008-10-15&amp;rft_id=http%3A%2F%2Fwww12.statcan.ca%2Fe
nglish%2Fcensus06%2Fdata%2Fpopdwell%2FTable.cfm%3FT%3D1201%26SR%3D1%26S%3D0%26O%
3DA%26RPP%3D9999%26PR%3D0%26CMA%3D0&amp;rfr_id=info%3Asid%2Fen.wikipedia.org%3AL
ist+of+postal+codes+of+Canada%3A+M">
    </span>
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inline-style"/>
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</li>
</ol>
</div>
<table class="navbox">
  <tbody>

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```
|  |  |  | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Flag of Canada | Canadian postal codes | |
| Canadian postal district map \(without legends\).svg |  |
| |                                                                                                                           |  | |---------------------------------------------------------------------------------------------------------------------------|--| | <div> <div>NL</div> <div> <a href="/wiki/Newfoundland_and_Labrador" title="Newfoundland and Labrador"> </a> </div> </div> |  | |---------------------------------------------------------------------------------------------------------------------------|--| | | |

```

```

<a href="/wiki/Nova_Scotia" title="Nova Scotia">
  NS
</a>
</td>
<td style="text-align:center; border:1px solid #aaa;">
  <a href="/wiki/Prince_Edward_Island" title="Prince Edward Island">
    PE
  </a>
</td>
<td style="text-align:center; border:1px solid #aaa;">
  <a href="/wiki/New_Brunswick" title="New Brunswick">
    NB
  </a>
</td>
<td colspan="3" style="text-align:center; border:1px solid #aaa;">
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    QC
  </a>
</td>
<td colspan="5" style="text-align:center; border:1px solid #aaa;">
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    ON
  </a>
</td>
<td style="text-align:center; border:1px solid #aaa;">
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    MB
  </a>
</td>
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    SK
  </a>
</td>
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    AB
  </a>
</td>
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    BC
  </a>
</td>
<td style="text-align:center; border:1px solid #aaa;">
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    NU
  </a>

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```

/
<a href="/wiki/Northwest_Territories" title="Northwest
Territories">
    NT
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</td>
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    <a href="/wiki/Yukon" title="Yukon">
        YT
    </a>
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</tr>
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postal codes of Canada: A">
            A
        </a>
    </td>
    <td align="center" style="border: 1px solid #FF4000; background-
color: #FFE8E0; font-size: 135%;" width="5%">
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postal codes of Canada: B">
            B
        </a>
    </td>
    <td align="center" style="border: 1px solid #FF8000; background-
color: #FFF0E0; 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>
    <td align="center" style="border: 1px solid #FFC000; background-
color: #FFF8E0; font-size: 135%;" width="5%">
        <a href="/wiki/List_of_postal_codes_of_Canada:_E" title="List of
postal codes of Canada: E">
            E
        </a>
    </td>
    <td align="center" style="border: 1px solid #FFFF00; background-
color: #FFFFE0; font-size: 135%;" width="5%">
        <a href="/wiki/List_of_postal_codes_of_Canada:_G" title="List of
postal codes of Canada: G">
            G
        </a>
    </td>

```



```
  |
```

```
  |
```

```

        </table>
        <!--
NewPP limit report
Parsed by mw1256
Cached time: 20190814214045
Cache expiry: 2592000
Dynamic content: false
Complications: [vary-revision-sha1]
CPU time usage: 0.220 seconds
Real time usage: 0.256 seconds
Preprocessor visited node count: 575/1000000
Preprocessor generated node count: 0/1500000
Post-expand 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 post-expand size: 9025/5000000 bytes
Number of Wikibase entities loaded: 0/400
Lua time usage: 0.063/10.000 seconds
Lua memory usage: 1.71 MB/50 MB
-->

        <!--
Transclusion expansion time report (%,ms,calls,template)
100.00%  118.546      1 -total
  80.17%   95.043      3 Template:Cite_web
   4.81%    5.699      1 Template:Canadian_postal_codes
   4.56%    5.406      1 Template:Col-2
   2.49%    2.951      1 Template:Col-begin
   2.09%    2.477      1 Template:Col-break
   2.00%    2.367      2 Template:Col-end
-->

        <!-- Saved in parser cache with key
enwiki:pcache:idhash:539066-0!canonical and timestamp 20190814214045 and
revision id 906439794
-->
        </div>
        <noscript>
            
        </noscript>
        </div>
        <div class="printfooter">
            Retrieved from "
            <a dir="ltr" href="https://en.wikipedia.org/w/index.php?title=List_of_posta
l_codes_of_Canada:_M&oldid=906439794">
                https://en.wikipedia.org/w/index.php?title=List_of_postal_codes_of_Canada:

```

```

_M&oldid=906439794
    </a>
    "
</div>
<div class="catlinks" data-mw="interface" id="catlinks">
  <div class="mw-normal-catlinks" id="mw-normal-catlinks">
    <a href="/wiki/Help:Category" 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>
<div class="visualClear">
</div>
</div>
<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">
  <div aria-labelledby="p-personal-label" id="p-personal" role="navigation">
    <h3 id="p-personal-label">
      Personal tools
    </h3>
    <ul>
      <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=List+of+po
stal+codes+of+Canada%3A+M" 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/index.php?title=Special:UserLogin&returnto=
List+of+postal+codes+of+Canada%3A+M" title="You're encouraged to log in;
however, it's not mandatory. [o]">
          Log in
        </a>
      </li>
    </ul>
  </div>
  <div id="left-navigation">
    <div aria-labelledby="p-namespaces-label" class="vectorTabs"
id="p-namespaces" role="navigation">
      <h3 id="p-namespaces-label">
        Namespaces
      </h3>
      <ul>
        <li class="selected" id="ca-nstab-main">
          <span>
            <a accesskey="c" href="/wiki/List_of_postal_codes_of_Canada:_M"

```

```

title="View the content page [c]">
    Article
    </a>
</span>
</li>
<li id="ca-talk">
    <span>
        <a accesskey="t" href="/wiki/Talk:List_of_postal_codes_of_Canada:_M"
rel="discussion" title="Discussion about the content page [t]">
            Talk
        </a>
    </span>
</li>
</ul>
</div>
<div aria-labelledby="p-variants-label" class="vectorMenu emptyPortlet"
id="p-variants" role="navigation">
    <input aria-labelledby="p-variants-label" class="vectorMenuCheckbox"
type="checkbox"/>
    <h3 id="p-variants-label">
        <span>
            Variants
        </span>
    </h3>
    <ul class="menu">
    </ul>
</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>
        <ul>
            <li class="collapsible selected" id="ca-view">
                <span>
                    <a href="/wiki/List_of_postal_codes_of_Canada:_M">
                        Read
                    </a>
                </span>
            </li>
            <li class="collapsible" id="ca-edit">
                <span>
                    <a accesskey="e"
href="/w/index.php?title=List_of_postal_codes_of_Canada:_M&action=edit"
title="Edit this page [e]">
                        Edit

```

```

        </a>
    </span>
</li>
<li class="collapsible" id="ca-history">
    <span>
        <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>
    </span>
</li>
</ul>
</div>
<div aria-labelledby="p-cactions-label" class="vectorMenu emptyPortlet"
id="p-cactions" role="navigation">
    <input aria-labelledby="p-cactions-label" class="vectorMenuCheckbox"
type="checkbox"/>
    <h3 id="p-cactions-label">
        <span>
            More
        </span>
    </h3>
    <ul class="menu">
    </ul>
</div>
<div id="p-search" role="search">
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        <label for="searchInput">
            Search
        </label>
    </h3>
    <form action="/w/index.php" id="searchform">
        <div id="simpleSearch">
            <input accesskey="f" 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"/>
            <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 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>
<div aria-labelledby="p-navigation-label" class="portal" id="p-navigation"
role="navigation">
  <h3 id="p-navigation-label">
    Navigation
  </h3>
  <div class="body">
    <ul>
      <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/Portal:Contents" title="Guides to browsing Wikipedia">
          Contents
        </a>
      </li>
      <li id="n-featuredcontent">
        <a href="/wiki/Portal:Featured_content" title="Featured content - the
best of Wikipedia">
          Featured content
        </a>
      </li>
      <li id="n-currentevents">
        <a href="/wiki/Portal:Current_events" title="Find background information
on current events">
          Current events
        </a>
      </li>
      <li id="n-randompage">
        <a accesskey="x" href="/wiki/Special:Random" title="Load a random
article [x]">
          Random article
        </a>
      </li>
      <li id="n-sitesupport">
        <a href="https://donate.wikimedia.org/wiki/Special:FundraiserRedirector?
utm_source=donate&utm_medium=sidebar&utm_campaign=C13_en.wikipedia.org&a
mp;uselang=en" title="Support us">
          Donate to Wikipedia
        </a>
      </li>
      <li id="n-shoplink">
        <a href="//shop.wikimedia.org" title="Visit the Wikipedia store">

```



```

        Wikipedia store
    </a>
</li>
</ul>
</div>
</div>
<div aria-labelledby="p-interaction-label" class="portal" id="p-interaction"
role="navigation">
    <h3 id="p-interaction-label">
        Interaction
    </h3>
    <div class="body">
        <ul>
            <li id="n-help">
                <a href="/wiki/Help:Contents" title="Guidance on how to use and edit
Wikipedia">
                    Help
                </a>
            </li>
            <li id="n-aboutsite">
                <a href="/wiki/Wikipedia:About" title="Find out about Wikipedia">
                    About Wikipedia
                </a>
            </li>
            <li id="n-portal">
                <a href="/wiki/Wikipedia:Community_portal" title="About the project,
what you can do, where to find things">
                    Community portal
                </a>
            </li>
            <li id="n-recentchanges">
                <a accesskey="r" href="/wiki/Special:RecentChanges" title="A list of
recent changes in the wiki [r]">
                    Recent changes
                </a>
            </li>
            <li id="n-contactpage">
                <a href="//en.wikipedia.org/wiki/Wikipedia:Contact_us" title="How to
contact Wikipedia">
                    Contact page
                </a>
            </li>
        </ul>
    </div>
</div>
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```

```

Tools
</h3>
<div class="body">
  <ul>
    <li id="t-whatlinkshere">
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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">
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href="/w/index.php?title=List_of_postal_codes_of_Canada:_M&oldid=906439794"
title="Permanent link to this revision of the page">
        Permanent link
      </a>
    </li>
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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-wikibase">
      <a accesskey="g"
href="https://www.wikidata.org/wiki/Special:EntityPage/Q3248240" title="Link to
connected data repository item [g]">

```

```

        Wikidata item
    </a>
</li>
<li id="t-cite">
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        Cite this page
    </a>
</li>
</ul>
</div>
</div>
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        Print/export
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                    Create a book
                </a>
            </li>
            <li id="coll-download-as-rl">
                <a href="/w/index.php?title=Special:ElectronPdf&page=List+of+postal+codes+of+Canada%3A_M&action=show-download-screen">
                    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>
</div>
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        Languages
    </h3>
    <div class="body">

```

```

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title="Liste des codes postaux canadiens débutant par M - French">
      Français
    </a>
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</ul>
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wikipedia" title="Edit interlanguage links">
      Edit links
    </a>
  </span>
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</div>
</div>
</div>
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  <ul id="footer-info">
    <li id="footer-info-lastmod">
      This page was last edited on 15 July 2019, at 21:03
      <span class="anonymous-show">
        (UTC)
      </span>
    </li>
    <li id="footer-info-copyright">
      Text is available under the
      <a
href="//en.wikipedia.org/wiki/Wikipedia:Text_of_Creative_Commons_Attribution-
ShareAlike_3.0_Unported_License" rel="license">
        Creative Commons Attribution-ShareAlike License
      </a>
      <a href="//creativecommons.org/licenses/by-sa/3.0/" rel="license"
style="display:none;">
      </a>
      ;
      additional terms may apply. By using this site, you agree to the
      <a href="//foundation.wikimedia.org/wiki/Terms_of_Use">
        Terms of Use
      </a>
      and
      <a href="//foundation.wikimedia.org/wiki/Privacy_policy">

```

```

    Privacy Policy
  </a>
  . Wikipedia® is a registered trademark of the
  <a href="//www.wikimediafoundation.org/">
    Wikimedia Foundation, Inc.
  </a>
  , a non-profit organization.
</li>
</ul>
<ul id="footer-places">
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href="https://foundation.wikimedia.org/wiki/Privacy_policy" title="wmf:Privacy
policy">
      Privacy policy
    </a>
  </li>
  <li id="footer-places-about">
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      About Wikipedia
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disclaimer">
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    </a>
  </li>
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dex.php?title=List_of_postal_codes_of_Canada:_M&amp;mobileaction=toggle_view_mob
ile">

```

```

        Mobile view
    </a>
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</ul>
<ul class="noprint" id="footer-icons">
    <li id="footer-copyrightico">
        <a href="https://wikimediafoundation.org/">
            
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    <li id="footer-poweredbyico">
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    </li>
</ul>
<div style="clear: both;">
</div>
</div>
<script>
    (RLQ=window.RLQ||[]).push(function(){mw.config.set({"wgPageParseReport":{"lim
itreport":{"cputime":"0.220","walltime":"0.256","ppvisitednodes":{"value":575,"l
imit":1000000},"ppgeneratednodes":{"value":0,"limit":1500000},"postexpandinclude
size":{"value":10232,"limit":2097152},"templateargumentsize":{"value":13,"limit"
:2097152},"expansiondepth":{"value":4,"limit":40},"expensivefunctioncount":{"val
ue":0,"limit":500},"unstrip-depth":{"value":1,"limit":20},"unstrip-size":{"value
":9025,"limit":5000000},"entityaccesscount":{"value":0,"limit":400},"timingprofi
le":["100.00% 118.546      1 -total"," 80.17%  95.043      3
Template:Cite_web","  4.81%   5.699      1 Template:Canadian_postal_codes","
4.56%   5.406      1 Template:Col-2","  2.49%   2.951      1 Template:Col-
begin","  2.09%   2.477      1 Template:Col-break","  2.00%   2.367      2
Template:Col-end"]},"scribunto":{"limitreport-
timeusage":{"value":"0.063","limit":"10.000"},"limitreport-memusage":{"value":17
88770,"limit":52428800}},"cachereport":{"origin":"mw1256","timestamp":"201908142
14045","ttl":2592000,"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_code
s_of_Canada:_M","sameAs":"http://www.wikidata.org/entity/Q3248240","mainEnti
ty":"http://www.wikidata.org/entity/Q3248240","author":{"@type":"Organizatio
n","name":"Contributors to Wikimedia
projects"},"publisher":{"@type":"Organization","name":"Wikimedia Foundation, Inc

```

```

.", "logo": {"@type": "ImageObject", "url": "https://www.wikimedia.org/static/images/wmf-hor-googpub.png"}}, "datePublished": "2004-03-20T10:02:13Z", "dateModified": "2019-07-15T21:03:58Z", "headline": "Wikimedia list article"}
</script>
<script>
(RLQ=window.RLQ||[]).push(function(){mw.config.set({"wgBackendResponseTime":103,"wgHostname":"mw1269"});});
</script>
</body>
</html>

```

```

[7]: #transforming the HTML in a Pandas Dataframe
table = soup.find('table', {'class': 'wikitable sortable'})
table_rows = table.find_all('tr')
res = []
for tr in table_rows:
    td = tr.find_all('td')
    row = [tr.text.strip() for tr in td]
    if row:
        res.append(row)

df = pd.DataFrame(res, columns=["PostalCode", "Borough", "Neighborhood"])
df.head()

```

```

[7]:   PostalCode      Borough      Neighborhood
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    Harbourfront

```

```

[8]: #original number of rows
df.shape

```

```

[8]: (288, 3)

```

```

[9]: #Drop all the 'Not assigned' in 'Borough' column --> I used the math's
      ↪ complement theory
mask = df['Borough'].isin(['Not assigned'])
bor_clean = df[~mask]
bor_clean.reset_index(drop=True, inplace=True)
bor_clean.head()

```

```

[9]:   PostalCode      Borough      Neighborhood
0         M3A    North York      Parkwoods
1         M4A    North York  Victoria Village

```

2	M5A	Downtown Toronto	Harbourfront
3	M5A	Downtown Toronto	Regent Park
4	M6A	North York	Lawrence Heights

```
[10]: #number of rows after eliminating the 'not assigned' values in 'Borough'
bor_clean.shape
```

```
[10]: (211, 3)
```

```
[11]: #check if some 'Neighborhood' has a 'Not assigned'
print(bor_clean[bor_clean['Neighborhood']=='Not assigned'])
```

	PostalCode	Borough	Neighborhood
6	M7A	Queen's Park	Not assigned

```
[12]: #replace the 'Not assigned' in the 'Neighborhood' column with the same value as
↳the 'Borough' column
#in the documentation page it says this is a bad practice
bor_clean.loc[bor_clean['Neighborhood'] == ('Not assigned'), 'Neighborhood'] =
↳bor_clean['Borough']
```

/home/jupyterlab/conda/envs/python/lib/python3.6/site-packages/pandas/core/indexing.py:205: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame

See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy
self._setitem_with_indexer(indexer, value)

/home/jupyterlab/conda/envs/python/lib/python3.6/site-packages/ipykernel_launcher.py:3: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame

See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy
This is separate from the ipykernel package so we can avoid doing imports until

```
[13]: bor_clean.head(10)
```

```
[13]:
```

	PostalCode	Borough	Neighborhood
0	M3A	North York	Parkwoods
1	M4A	North York	Victoria Village
2	M5A	Downtown Toronto	Harbourfront
3	M5A	Downtown Toronto	Regent Park
4	M6A	North York	Lawrence Heights
5	M6A	North York	Lawrence Manor
6	M7A	Queen's Park	Queen's Park

7	M9A	Etobicoke	Islington Avenue
8	M1B	Scarborough	Rouge
9	M1B	Scarborough	Malvern

```
[14]: #check if the bad practice led to a good result lol
bor_clean[bor_clean['PostalCode'].str.match('M7A')]
```

```
[14]:   PostalCode      Borough  Neighborhood
6      M7A  Queen's Park  Queen's Park
```

```
[15]: #merge cells containing the same PostalCode
toronto = bor_clean.groupby(['PostalCode', 'Borough'])['Neighborhood'].apply('
↳'.join).reset_index()
toronto.head()
```

```
[15]:   PostalCode      Borough      Neighborhood
0      M1B  Scarborough      Rouge, Malvern
1      M1C  Scarborough  Highland Creek, Rouge Hill, Port Union
2      M1E  Scarborough      Guildwood, Morningside, West Hill
3      M1G  Scarborough      Woburn
4      M1H  Scarborough      Cedarbrae
```

```
[16]: #just checking if the PostalCode M5A has the same Neighborhoods as displayed in
↳ Coursera 'My submission'
toronto[toronto['PostalCode'].str.match('M5A')]
```

```
[16]:   PostalCode      Borough      Neighborhood
53      M5A  Downtown Toronto  Harbourfront, Regent Park
```

1.1 Question 1: check the final shape of the data frame:

```
[17]: #display final number of rows in the dataframe:
toronto.shape
```

```
[17]: (103, 3)
```

1.2 Question 2: get the coordinates for all Boroughs in Toronto

```
[18]: pip install geopy
```

Collecting geopy

Downloading <https://files.pythonhosted.org/packages/80/93/d384479da0ead712bdaf697a8399c13a9a89bd856ada5a27d462fb45e47b/geopy-1.20.0-py2.py3-none-any.whl>
(100kB)

| 102kB 2.6MB/s ta 0:00:011

Collecting geographiclib<2,>=1.49 (from geopy)

Downloading <https://files.pythonhosted.org/packages/5b/ac/4f348828091490d77899>

```
bc74e92238e2b55c59392f21948f296e94e50e2b/geographiclib-1.49.tar.gz
Building wheels for collected packages: geographiclib
  Building wheel for geographiclib (setup.py) ... done
  Stored in directory: /home/jupyterlab/.cache/pip/wheels/99/45/d1/1495479
7e2a976083182c2e7da9b4e924509e59b6e5c661061
Successfully built geographiclib
Installing collected packages: geographiclib, geopy
Successfully installed geographiclib-1.49 geopy-1.20.0
Note: you may need to restart the kernel to use updated packages.
```

```
[19]: !pip install geocoder
```

```
Collecting geocoder
  Downloading https://files.pythonhosted.org/packages/4f/6b/13166c909ad2f2
d76b929a4227c952630ebaf0d729f6317eb09cbceccbab/geocoder-1.38.1-py2.py3-none-
any.whl (98kB)
    | 102kB 2.8MB/s ta 0:00:011
Collecting ratelim (from geocoder)
  Downloading https://files.pythonhosted.org/packages/f2/98/7e6d147fd16a10a5f821
db6e25f192265d6ecca3d82957a4fdd592cad49c/ratelim-0.1.6-py2.py3-none-any.whl
Requirement already satisfied: requests in
/home/jupyterlab/conda/envs/python/lib/python3.6/site-packages (from geocoder)
(2.22.0)
Collecting future (from geocoder)
  Downloading https://files.pythonhosted.org/packages/90/52/e20466b85000a1
81e1e144fd8305caf2cf475e2f9674e797b222f8105f5f/future-0.17.1.tar.gz (829kB)
    | 829kB 24.5MB/s eta 0:00:01
Requirement already satisfied: six in
/home/jupyterlab/conda/envs/python/lib/python3.6/site-packages (from geocoder)
(1.12.0)
Collecting click (from geocoder)
  Downloading https://files.pythonhosted.org/packages/fa/37/45185cb5abbc30
d7257104c434fe0b07e5a195a6847506c074527aa599ec/Click-7.0-py2.py3-none-any.whl
(81kB)
    | 81kB 18.1MB/s eta 0:00:01
Requirement already satisfied: decorator in
/home/jupyterlab/conda/envs/python/lib/python3.6/site-packages (from
ratelim->geocoder) (4.4.0)
Requirement already satisfied: urllib3!=1.25.0,!1.25.1,<1.26,>=1.21.1 in
/home/jupyterlab/conda/envs/python/lib/python3.6/site-packages (from
requests->geocoder) (1.24.3)
Requirement already satisfied: chardet<3.1.0,>=3.0.2 in
/home/jupyterlab/conda/envs/python/lib/python3.6/site-packages (from
requests->geocoder) (3.0.4)
Requirement already satisfied: idna<2.9,>=2.5 in
/home/jupyterlab/conda/envs/python/lib/python3.6/site-packages (from
requests->geocoder) (2.8)
Requirement already satisfied: certifi>=2017.4.17 in
```

```

/home/jupyterlab/conda/envs/python/lib/python3.6/site-packages (from
requests->geocoder) (2019.6.16)
Building wheels for collected packages: future
  Building wheel for future (setup.py) ... done
  Stored in directory: /home/jupyterlab/.cache/pip/wheels/0c/61/d2/d6b7317
325828fbb39ee6ad559dbe4664d0896da4721bf379e
Successfully built future
Installing collected packages: ratelim, future, click, geocoder
Successfully installed click-7.0 future-0.17.1 geocoder-1.38.1 ratelim-0.1.6

```

```
[20]: import geocoder # import geocoder
```

```

[21]: # define the dataframe columns
column_names = ['PostalCode', 'Borough', 'Neighborhood', 'Latitude', 'Longitude']

# instantiate the dataframe
neighborhoods = pd.DataFrame(columns=column_names)

#empty dataframe
neighborhoods.head()

```

```

[21]: Empty DataFrame
Columns: [PostalCode, Borough, Neighborhood, Latitude, Longitude]
Index: []

```

```

[22]: lastvalue = toronto.shape[0]

n = 0

while(n<lastvalue) :
    postal_code = toronto['PostalCode'][n]
    borough = toronto['Borough'][n]
    neighborhood_name = toronto['Neighborhood'][n]
    #while(lat_lng_coords is None) :
    g = geocoder.arcgis('{}, Toronto, Ontario'.format(postal_code))
    lat_lng_coords = g.latlng
    neighborhood_lat = lat_lng_coords[0]
    neighborhood_lon = lat_lng_coords[1]
    # print(n, greg, lat_lng_coords, borough, neighborhood_name,
    ↪neighborhood_lat, neighborhood_lon)

    neighborhoods = neighborhoods.append({'PostalCode': postal_code,
                                         'Borough': borough,
                                         'Neighborhood': neighborhood_name,
                                         'Latitude': neighborhood_lat,
                                         'Longitude':
    ↪neighborhood_lon},ignore_index=True)

```

```
n = n+1
```

```
[23]: neighborhoods.head()
```

```
[23]:
```

	PostalCode	Borough	Neighborhood	Latitude	\
0	M1B	Scarborough	Rouge, Malvern	43.811525	
1	M1C	Scarborough	Highland Creek, Rouge Hill, Port Union	43.785730	
2	M1E	Scarborough	Guildwood, Morningside, West Hill	43.765690	
3	M1G	Scarborough	Woburn	43.768359	
4	M1H	Scarborough	Cedarbrae	43.769688	

```
Longitude
0 -79.195517
1 -79.158750
2 -79.175256
3 -79.217590
4 -79.239440
```

```
[24]: neighborhoods.shape
```

```
[24]: (103, 5)
```

```
[25]: neighborhoods.Borough.unique()
```

```
[25]: array(['Scarborough', 'North York', 'East York', 'East Toronto',
        'Central Toronto', 'Downtown Toronto', 'York', 'West Toronto',
        "Queen's Park", 'Mississauga', 'Etobicoke'], dtype=object)
```

1.3 Question 3: explore and cluster the neighborhoods in Toronto

1.3.1 Let's take a look at all the neighborhoods in Toronto in a beautiful map

```
[26]: from geopy.geocoders import Nominatim
import folium
```

```
[27]: address = 'Toronto, ON'

geolocator = Nominatim(user_agent="toronto_explorer")
location = geolocator.geocode(address)
latitude = location.latitude
longitude = location.longitude
print('The geograpical coordinate of Toronto are {}, {}'.format(latitude,
↪longitude))
```

The geograpical coordinate of Toronto are 43.653963, -79.387207.

```
[28]: # create map of Toronto using latitude and longitude values
map_toronto = folium.Map(location=[latitude, longitude], zoom_start=10)

# add markers to map
for lat, lng, borough, neighborhood in zip(neighborhoods['Latitude'],
↳neighborhoods['Longitude'], neighborhoods['Borough'],
↳neighborhoods['Neighborhood']):
    label = '{} , {}'.format(neighborhood, borough)
    label = folium.Popup(label, parse_html=True)
    folium.CircleMarker(
        [lat, lng],
        radius=5,
        popup=label,
        color='blue',
        fill=True,
        fill_color='#3186cc',
        fill_opacity=0.7,
        parse_html=False).add_to(map_toronto)

map_toronto
```

```
[28]: <folium.folium.Map at 0x7f0fe025b6a0>
```

1.4 Foursquare API to explore the neighborhoods in Toronto

```
[29]: CLIENT_ID = 'Q0ITL1ZB5Z2J554VCKJTHJOYKXGHHHRISFOGDPJ4PFGE0FHG' # your
↳Foursquare ID
CLIENT_SECRET = 'NWBZLOFJQ41XMF5V5FNXPSZSJGUNZALLSEOUFUTO3DWMV2IM' # your
↳Foursquare Secret
VERSION = '20180605' # Foursquare API version

print('Your credentails:')
print('CLIENT_ID: ' + CLIENT_ID)
print('CLIENT_SECRET: ' + CLIENT_SECRET)
```

Your credentails:

CLIENT_ID: Q0ITL1ZB5Z2J554VCKJTHJOYKXGHHHRISFOGDPJ4PFGE0FHG

CLIENT_SECRET:NWBZLOFJQ41XMF5V5FNXPSZSJGUNZALLSEOUFUTO3DWMV2IM

```
[30]: LIMIT2 = 10000
radius2 = 1000
url2 = 'https://api.foursquare.com/v2/venues/explore?
↳client_id={} & client_secret={} & ll={}, {} & v={} & radius={} & limit={} '.
↳format(CLIENT_ID, CLIENT_SECRET, latitude, longitude, VERSION, radius2,
↳LIMIT2)
url2
```

```
[30]: 'https://api.foursquare.com/v2/venues/explore?client_id=Q0ITL1ZB5Z2J554VCKJTHJOY
KXGHHHRISFOGDPJ4PFGE0FHG&client_secret=NWBZLOFJQ41XMF5V5FNXPSZSJGUNZALLSEOUFUTO3
DWMV2IM&ll=43.653963,-79.387207&v=20180605&radius=1000&limit=10000'
```

```
[31]: radius = 1000
LIMIT=1000
```

1.5 Question 3: explore and cluster the neighborhoods in Toronto

1.5.1 Explore the whole city of Toronto and its Boroughs

```
[32]: def getNearbyVenues_ari(names, postalcodes, latitudes, longitudes, radius=500):

    venues_list=[]
    for name, postalCode, lat, lng in zip(names, postalcodes, latitudes,
    ↳longitudes):
        print(name)

        # create the API request URL
        url = 'https://api.foursquare.com/v2/venues/explore?
    ↳&client_id={} &client_secret={} &v={} &ll={},{} &radius={} &limit={} '.format(
            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,
            postalCode,
            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 = ['Borough',
                             'PostalCode',
```

```
        'Neighborhood Latitude',
        'Neighborhood Longitude',
        'Venue',
        'Venue Latitude',
        'Venue Longitude',
        'Venue Category']

return(nearby_venues)
```

```
[ ]: #eu troquei pd.neighborhoods por pd.explore_toronto pra tentar entender a
      ↳ clusterização

toronto_venues = getNearbyVenues_ari(names=neighborhoods['Borough'],
                                     postalcodes=neighborhoods['PostalCode'],
                                     latitudes=neighborhoods['Latitude'],
                                     longitudes=neighborhoods['Longitude']
                                     )
```

[illegible]

[illegible]

```
[ ]: print(toronto_venues.shape)
toronto_venues.head()
```

```
[ ]: print('There are {} uniques categories.'.format(len(toronto_venues['Venue']
↳Category'].unique())))
```

```
[ ]: toronto_venues.groupby('Borough').count()
```

1.5.2 One hote encoding

```
[ ]: # one hot encoding
toronto_onehot = pd.get_dummies(toronto_venues[['Venue Category']], prefix="",
    ↪ prefix_sep="")
```



```
# add neighborhood column back to dataframe
# ver se faz sentido trocar Borough por PostalCode para fazer a analise (?)
toronto_onehot['Borough'] = toronto_venues['Borough']

# move neighborhood column to the first column
fixed_columns = [toronto_onehot.columns[-1]] + list(toronto_onehot.columns[:-1])
toronto_onehot = toronto_onehot[fixed_columns]

pd.set_option('display.max_columns', None)
toronto_onehot.head()
```

Working on the data: there are some columns with very similar names, such as ‘Café’ and ‘Coffee Shop’. For those columns I will merge them and drop, so instead of two, we will have only one column named, for example, ‘Café & Shop’

```
[ ]: toronto_onehot['Café & Shop'] = toronto_onehot['Café'] + toronto_onehot['Coffee_
    ↳Shop']
toronto_onehot['Pizza & Italian Restaurant'] = toronto_onehot['Pizza Place'] +_
    ↳toronto_onehot['Italian Restaurant']
toronto_onehot.drop(['Café', 'Coffee Shop', 'Pizza Place', 'Italian_
    ↳Restaurant'], axis=1, inplace=True)
toronto_onehot.head()
```

```
[ ]: toronto_onehot.shape
```

```
[ ]: #group the postalcodes and append the column Borough
toronto_grouped = toronto_onehot.groupby('Borough').mean().reset_index()
#toronto_grouped['Borough']=toronto['Borough']
toronto_grouped.head()
```

```
[ ]: toronto_grouped.shape
```

1.6 Print most comun venues for each Borough

```
[ ]: num_top_venues = 5

for borough in toronto_grouped['Borough']:
    print("----"+borough+"----")
    temp = toronto_grouped[toronto_grouped['Borough'] == borough].T.
    ↳reset_index()
    temp.columns = ['venue', 'freq']
    temp = temp.iloc[1:]
    temp['freq'] = temp['freq'].astype(float)
    temp = temp.round({'freq': 2})
    print(temp.sort_values('freq', ascending=False).reset_index(drop=True).
    ↳head(num_top_venues))
```

```
print('\n')
```

1.6.1 Let's make a data frame with the 10 most popular venues in each borough

```
[ ]: 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]

[ ]: num_top_venues = 10

indicators = ['st', 'nd', 'rd']

# create columns according to number of top venues
columns = ['Borough']
for ind in np.arange(num_top_venues):
    try:
        columns.append('{}-{} Most Common Venue'.format(ind+1, indicators[ind]))
    except:
        columns.append('{}th Most Common Venue'.format(ind+1))

# create a new dataframe
neighborhoods_venues_sorted = pd.DataFrame(columns=columns)
neighborhoods_venues_sorted['Borough'] = toronto_grouped['Borough']

for ind in np.arange(toronto_grouped.shape[0]):
    neighborhoods_venues_sorted.iloc[ind, 1:] = ↵
    ↪return_most_common_venues(toronto_grouped.iloc[ind, :], num_top_venues)

neighborhoods_venues_sorted
```

1.6.2 And the clusters begin!

```
[ ]: from sklearn.cluster import KMeans

[ ]: # set number of clusters
kclusters = 4

toronto_grouped_clustering = toronto_grouped.drop('Borough', 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]
```

```
[ ]: # add clustering labels
neighborhoods_venues_sorted.insert(0, 'Cluster Labels', kmeans.labels_)

toronto_merged = neighborhoods

# merge toronto_grouped with toronto_data to add latitude/longitude for each
↳ neighborhood
toronto_merged = toronto_merged.join(neighborhoods_venues_sorted.
↳ set_index('Borough'), on='Borough')

toronto_merged.head() # check the last columns!
```

```
[ ]: import matplotlib.cm as cm
import matplotlib.colors as colors
```

1.6.3 Create a map from the clusters

```
[ ]: # create map
map_clusters = folium.Map(location=[latitude, longitude], zoom_start=11)

# set color scheme for the clusters
x = np.arange(kclusters)
ys = [i + x + (i*x)**2 for i 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['Borough'],
↳ toronto_merged['Cluster Labels']):
    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=1).add_to(map_clusters)

map_clusters
```

1.6.4 Shape of the clusters

```
[ ]: A2 = toronto_merged.loc[toronto_merged['Cluster Labels'] == 2, toronto_merged.  
    ↳columns[[1] + list(range(5, toronto_merged.shape[1]))]]  
#A2  
A2.shape
```

```
[ ]: A1 = toronto_merged.loc[toronto_merged['Cluster Labels'] == 1, toronto_merged.  
    ↳columns[[1] + list(range(5, toronto_merged.shape[1]))]]  
#A1  
A1.shape
```

```
[ ]: A3 = toronto_merged.loc[toronto_merged['Cluster Labels'] == 3, toronto_merged.  
    ↳columns[[1] + list(range(5, toronto_merged.shape[1]))]]  
#A3  
A3.shape
```

```
[ ]: A0 = toronto_merged.loc[toronto_merged['Cluster Labels'] == 0, toronto_merged.  
    ↳columns[[1] + list(range(5, toronto_merged.shape[1]))]]  
#A0  
A0.shape
```

1.6.5 Most common venues for each cluster

```
[ ]: import matplotlib.pyplot as plt  
    from matplotlib import cm
```

```
[ ]: plt.figure(figsize=(9, 3))  
  
plt.suptitle('Cluster 2')  
plt.subplot(131)  
plt.xlabel('1st Most Common Venues')  
A2['1st Most Common Venue'].value_counts()[:3].plot(kind='bar')  
plt.subplot(132)  
plt.xlabel('2nd Most Common Venues')  
A2['2nd Most Common Venue'].value_counts()[:5].plot(kind='bar')  
plt.subplot(133)  
plt.xlabel('3rd Most Common Venues')  
A2['3rd Most Common Venue'].value_counts()[:4].plot(kind='bar')  
  
plt.show()
```

```
[ ]: plt.figure(figsize=(9, 3))  
  
plt.suptitle('Cluster 1')  
plt.subplot(131)  
plt.xlabel('1st Most Common Venues')
```

```

A1['1st Most Common Venue'].value_counts()[:3].plot(kind='bar')
plt.subplot(132)
plt.xlabel('2nd Most Comum Venues')
A1['2nd Most Common Venue'].value_counts()[:5].plot(kind='bar')
plt.subplot(133)
plt.xlabel('3rd Most Comum Venues')
A1['3rd Most Common Venue'].value_counts()[:4].plot(kind='bar')

plt.show()

```

```

[ ]: plt.figure(figsize=(9, 3))

plt.suptitle('Cluster 3')
plt.subplot(131)
plt.xlabel('1st Most Comum Venues')
A3['1st Most Common Venue'].value_counts()[:3].plot(kind='bar')
plt.subplot(132)
plt.xlabel('2nd Most Comum Venues')
A3['2nd Most Common Venue'].value_counts()[:5].plot(kind='bar')
plt.subplot(133)
plt.xlabel('3rd Most Comum Venues')
A3['3rd Most Common Venue'].value_counts()[:4].plot(kind='bar')

plt.show()

```

```

[ ]: plt.figure(figsize=(9, 3))

plt.suptitle('Cluster 0')
plt.subplot(131)
plt.xlabel('3rd Most Comum Venues')
A0['3rd Most Common Venue'].value_counts()[:3].plot(kind='bar')
plt.subplot(132)
plt.xlabel('4th Most Comum Venues')
A0['4th Most Common Venue'].value_counts()[:5].plot(kind='bar')
plt.subplot(133)
plt.xlabel('5th Most Comum Venues')
A0['5th Most Common Venue'].value_counts()[:4].plot(kind='bar')

plt.show()

```

1.6.6 Cluster profiles

Toronto seems to be a gastronomic trip destination with lots of Cafés and Restaurants. I also put the clusters in order of children number. Comparing the clusters, we could name:

CLuster 2: Shopping clothing, explore chinese cuisine and by groceries to make a special meal

CLuster 1: Italian, Café and other restaurants

CLuster 3: Parks

CLuster 0: Indian and Tea