# Simple BeautifulSoup examplenew

November 22, 2024

## 1 Simple Webscraping Example with Beautiful Soup

```
[1]: # Import all neccessary libraries

     from bs4 import BeautifulSoup
     import urllib.request
     import pandas as pd
```

```
[2]: # Assign the URL to a variable

     url = "https://www12.statcan.gc.ca/census-recensement/2021/dp-pd/prof/details/
       ↪page.cfm?
       ↪Lang=E&SearchText=M1C&DGUIDlist=2021A0011M1C&GENDERlist=1,2,3&STATISTIClist=1,4&HEADERlist=

     # use the urlopen function to open the webpage
     html = urllib.request.urlopen(url)

     # show object html
     html
```

```
[2]: <http.client.HTTPResponse at 0x7f1526f27160>
```

```
[3]: # Create the BeautifulSoup object

     html_to_parse = BeautifulSoup(html, "html.parser")
```

```
[4]: # create a list of tables.  There is only 1 table in this webpage

     tables = html_to_parse.find_all("table")
     print(f"Number of tables found: {len(tables)}")
```

```
Number of tables found: 1
```

```
[5]: # Create list of all the <th> tags in the table that has the title
       ↪"2021A0011M1C - Population, 2021 - Counts - Total"
```

```
td = tables[0].find(attrs={"title":"2021A0011M1C - Population, 2021 - Counts -␣
 ↪Total"})
```

[6]: 
```
td
```

[6]: 
```
<td class="text-right text-nowrap" headers="rh1 r1 geo2021A0011M1C
geo2021A0011M1Cstat1 geo2021A0011M1Cstat1gen1" title="2021A0011M1C - Population,
2021 - Counts - Total"> 35,642</td>
```

[7]: 
```
# convert to float
float(td.text.replace(",", ""))
```

[7]: 
```
35642.0
```

## 1.1 Create a script that will look up from a list of Postal codes

[8]: 
```
import urllib.parse as urlparse
from urllib.parse import urlencode
```

[9]: 
```
# A list of postal code from the previous part

postal = ['M3A', 'M4A', 'M5A', 'M6A', 'M7A','M5E', 'M4E', 'M6E', 'M5G',␣
 ↪'M6G','M2H','M3H','M4H','M5H','M6H',
'M1J','M2J', 'M3J',
        'M4J',
        'M5J',
        'M5K',
        'M6K',
        'M1L',
        'M2L',
        'M3L',
        'M4L',
        'M5L',
        'M6L',
        'M9L',
        'M1M',
        'M2M',
        'M3M',
        'M4M',
        'M5M',
        'M6M',
        'M9M',
        'M1N',
        'M2N',
        'M3N',
        'M4N',
        'M5N',
```

```
        'M6N',  'M9N',
        'M1P',
        'M2P',
        'M4P',
        'M5P',
        'M6P',
        'M9P',
        'M1R',
        'M2R',
        'M4R',
        'M5R',
        'M6R',
        'M7R',
        'M9R',
        'M1S',  'M4S',
        'M5S',
        'M6S',
        'M1T',
        'M4T',
        'M5T',
        'M1V',
        'M4V',
        'M5V',
        'M8V',
        'M9V',
        'M1W',
        'M4W',
        'M5W',
        'M8W',
        'M9W',
        'M1X',
        'M4X',
        'M5X',
        'M8X',
        'M7Y',
        'M8Y',
        'M8Z',]
```

[10]:
```python
# Creating Empty DataFrame and Storing it in variable df

df = pd.DataFrame(columns = ['postal_code', 'data', 'value'])
```

[15]:
```python
# Loop through each postal code


for i in postal:
```

```python
    url = "https://www12.statcan.gc.ca/census-recensement/2021/dp-pd/prof/
↪details/page.cfm?Lang=E"
    params = {
        'SearchText': i,
        'DGUIDlist': '2021A0011'+i
    }

    # this part switches up the postal code parameter in the url
    url_parts = list(urlparse.urlparse(url))
    query = dict(urlparse.parse_qsl(url_parts[4]))
    query.update(params)

    url_parts[4] = urlencode(query)
    query = urlparse.urlunparse(url_parts)

    # the following code is similar to the above
    html = urllib.request.urlopen(query)
    html_to_parse = BeautifulSoup(html, "html.parser")
    tables = html_to_parse.find_all("table")
    print(f"Number of tables found: {len(tables)}")


    tables = html_to_parse.find_all("table")
    if len(tables) == 0:
        print("No tables found on this page.")
        continue  # Skip to the next iteration


    # change the title to find the data you want
    title = (f"2021A0011{i} - Population, 2021 - Counts - Total")
    td = tables[0].find(attrs={"title":title})
    print(td)
    df.loc[len(df.index)] = [i, title,  float(td.text.replace(",", ""))]
```

```
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh1 r1 geo2021A0011M3A
geo2021A0011M3Astat1 geo2021A0011M3Astat1gen1" title="2021A0011M3A - Population,
2021 - Counts - Total"> 34,361</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh1 r1 geo2021A0011M4A
geo2021A0011M4Astat1 geo2021A0011M4Astat1gen1" title="2021A0011M4A - Population,
2021 - Counts - Total"> 14,589</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh1 r1 geo2021A0011M5A
geo2021A0011M5Astat1 geo2021A0011M5Astat1gen1" title="2021A0011M5A - Population,
2021 - Counts - Total"> 48,978</td>
Number of tables found: 1
```

```
<td class="text-right text-nowrap" headers="rh1 r1 geo2021A0011M6A
geo2021A0011M6Astat1 geo2021A0011M6Astat1gen1" title="2021A0011M6A - Population,
2021 - Counts - Total"> 22,380</td>
Number of tables found: 1
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geo2021A0011M7Astat1 geo2021A0011M7Astat1gen1" title="2021A0011M7A - Population,
2021 - Counts - Total">     5</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh1 r1 geo2021A0011M5E
geo2021A0011M5Estat1 geo2021A0011M5Estat1gen1" title="2021A0011M5E - Population,
2021 - Counts - Total"> 11,779</td>
Number of tables found: 1
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geo2021A0011M4Estat1 geo2021A0011M4Estat1gen1" title="2021A0011M4E - Population,
2021 - Counts - Total"> 25,473</td>
Number of tables found: 1
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geo2021A0011M6Estat1 geo2021A0011M6Estat1gen1" title="2021A0011M6E - Population,
2021 - Counts - Total"> 37,684</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh1 r1 geo2021A0011M5G
geo2021A0011M5Gstat1 geo2021A0011M5Gstat1gen1" title="2021A0011M5G - Population,
2021 - Counts - Total">  9,751</td>
Number of tables found: 1
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geo2021A0011M6Gstat1 geo2021A0011M6Gstat1gen1" title="2021A0011M6G - Population,
2021 - Counts - Total"> 30,600</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh1 r1 geo2021A0011M2H
geo2021A0011M2Hstat1 geo2021A0011M2Hstat1gen1" title="2021A0011M2H - Population,
2021 - Counts - Total"> 23,396</td>
Number of tables found: 1
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geo2021A0011M3Hstat1 geo2021A0011M3Hstat1gen1" title="2021A0011M3H - Population,
2021 - Counts - Total"> 38,416</td>
Number of tables found: 1
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geo2021A0011M4Hstat1 geo2021A0011M4Hstat1gen1" title="2021A0011M4H - Population,
2021 - Counts - Total"> 18,698</td>
Number of tables found: 1
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geo2021A0011M5Hstat1 geo2021A0011M5Hstat1gen1" title="2021A0011M5H - Population,
2021 - Counts - Total">  3,248</td>
Number of tables found: 1
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geo2021A0011M6Hstat1 geo2021A0011M6Hstat1gen1" title="2021A0011M6H - Population,
2021 - Counts - Total"> 43,730</td>
Number of tables found: 1
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<td class="text-right text-nowrap" headers="rh1 r1 geo2021A0011M1J
geo2021A0011M1Jstat1 geo2021A0011M1Jstat1gen1" title="2021A0011M1J - Population,
2021 - Counts - Total"> 37,002</td>
Number of tables found: 1
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geo2021A0011M2Jstat1 geo2021A0011M2Jstat1gen1" title="2021A0011M2J - Population,
2021 - Counts - Total"> 61,761</td>
Number of tables found: 1
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geo2021A0011M3Jstat1 geo2021A0011M3Jstat1gen1" title="2021A0011M3J - Population,
2021 - Counts - Total"> 26,600</td>
Number of tables found: 1
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geo2021A0011M4Jstat1 geo2021A0011M4Jstat1gen1" title="2021A0011M4J - Population,
2021 - Counts - Total"> 35,128</td>
Number of tables found: 1
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geo2021A0011M5Jstat1 geo2021A0011M5Jstat1gen1" title="2021A0011M5J - Population,
2021 - Counts - Total"> 16,879</td>
Number of tables found: 0
No tables found on this page.
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh1 r1 geo2021A0011M6K
geo2021A0011M6Kstat1 geo2021A0011M6Kstat1gen1" title="2021A0011M6K - Population,
2021 - Counts - Total"> 42,110</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh1 r1 geo2021A0011M1L
geo2021A0011M1Lstat1 geo2021A0011M1Lstat1gen1" title="2021A0011M1L - Population,
2021 - Counts - Total"> 35,833</td>
Number of tables found: 1
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geo2021A0011M2Lstat1 geo2021A0011M2Lstat1gen1" title="2021A0011M2L - Population,
2021 - Counts - Total"> 11,274</td>
Number of tables found: 1
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geo2021A0011M3Lstat1 geo2021A0011M3Lstat1gen1" title="2021A0011M3L - Population,
2021 - Counts - Total"> 19,263</td>
Number of tables found: 1
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geo2021A0011M4Lstat1 geo2021A0011M4Lstat1gen1" title="2021A0011M4L - Population,
2021 - Counts - Total"> 32,218</td>
Number of tables found: 0
No tables found on this page.
Number of tables found: 1
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geo2021A0011M6Lstat1 geo2021A0011M6Lstat1gen1" title="2021A0011M6L - Population,
2021 - Counts - Total"> 20,156</td>
Number of tables found: 1
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<td class="text-right text-nowrap" headers="rh1 r1 geo2021A0011M9L
geo2021A0011M9Lstat1 geo2021A0011M9Lstat1gen1" title="2021A0011M9L - Population,
2021 - Counts - Total"> 11,737</td>
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Number of tables found: 1
```
<td class="text-right text-nowrap" headers="rh1 r1 geo2021A0011M1M
geo2021A0011M1Mstat1 geo2021A0011M1Mstat1gen1" title="2021A0011M1M - Population,
2021 - Counts - Total"> 23,258</td>
```
Number of tables found: 1
```
<td class="text-right text-nowrap" headers="rh1 r1 geo2021A0011M2M
geo2021A0011M2Mstat1 geo2021A0011M2Mstat1gen1" title="2021A0011M2M - Population,
2021 - Counts - Total"> 31,915</td>
```
Number of tables found: 1
```
<td class="text-right text-nowrap" headers="rh1 r1 geo2021A0011M3M
geo2021A0011M3Mstat1 geo2021A0011M3Mstat1gen1" title="2021A0011M3M - Population,
2021 - Counts - Total"> 24,906</td>
```
Number of tables found: 1
```
<td class="text-right text-nowrap" headers="rh1 r1 geo2021A0011M4M
geo2021A0011M4Mstat1 geo2021A0011M4Mstat1gen1" title="2021A0011M4M - Population,
2021 - Counts - Total"> 25,052</td>
```
Number of tables found: 1
```
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geo2021A0011M5Mstat1 geo2021A0011M5Mstat1gen1" title="2021A0011M5M - Population,
2021 - Counts - Total"> 25,495</td>
```
Number of tables found: 1
```
<td class="text-right text-nowrap" headers="rh1 r1 geo2021A0011M6M
geo2021A0011M6Mstat1 geo2021A0011M6Mstat1gen1" title="2021A0011M6M - Population,
2021 - Counts - Total"> 42,148</td>
```
Number of tables found: 1
```
<td class="text-right text-nowrap" headers="rh1 r1 geo2021A0011M9M
geo2021A0011M9Mstat1 geo2021A0011M9Mstat1gen1" title="2021A0011M9M - Population,
2021 - Counts - Total"> 24,245</td>
```
Number of tables found: 1
```
<td class="text-right text-nowrap" headers="rh1 r1 geo2021A0011M1N
geo2021A0011M1Nstat1 geo2021A0011M1Nstat1gen1" title="2021A0011M1N - Population,
2021 - Counts - Total"> 22,976</td>
```
Number of tables found: 1
```
<td class="text-right text-nowrap" headers="rh1 r1 geo2021A0011M2N
geo2021A0011M2Nstat1 geo2021A0011M2Nstat1gen1" title="2021A0011M2N - Population,
2021 - Counts - Total"> 75,100</td>
```
Number of tables found: 1
```
<td class="text-right text-nowrap" headers="rh1 r1 geo2021A0011M3N
geo2021A0011M3Nstat1 geo2021A0011M3Nstat1gen1" title="2021A0011M3N - Population,
2021 - Counts - Total"> 40,846</td>
```
Number of tables found: 1
```
<td class="text-right text-nowrap" headers="rh1 r1 geo2021A0011M4N
geo2021A0011M4Nstat1 geo2021A0011M4Nstat1gen1" title="2021A0011M4N - Population,
2021 - Counts - Total"> 16,058</td>
```
Number of tables found: 1

```
<td class="text-right text-nowrap" headers="rh1 r1 geo2021A0011M5N
geo2021A0011M5Nstat1 geo2021A0011M5Nstat1gen1" title="2021A0011M5N - Population,
2021 - Counts - Total"> 16,154</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh1 r1 geo2021A0011M6N
geo2021A0011M6Nstat1 geo2021A0011M6Nstat1gen1" title="2021A0011M6N - Population,
2021 - Counts - Total"> 40,252</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh1 r1 geo2021A0011M9N
geo2021A0011M9Nstat1 geo2021A0011M9Nstat1gen1" title="2021A0011M9N - Population,
2021 - Counts - Total"> 26,059</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh1 r1 geo2021A0011M1P
geo2021A0011M1Pstat1 geo2021A0011M1Pstat1gen1" title="2021A0011M1P - Population,
2021 - Counts - Total"> 45,170</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh1 r1 geo2021A0011M2P
geo2021A0011M2Pstat1 geo2021A0011M2Pstat1gen1" title="2021A0011M2P - Population,
2021 - Counts - Total">  7,546</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh1 r1 geo2021A0011M4P
geo2021A0011M4Pstat1 geo2021A0011M4Pstat1gen1" title="2021A0011M4P - Population,
2021 - Counts - Total"> 25,057</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh1 r1 geo2021A0011M5P
geo2021A0011M5Pstat1 geo2021A0011M5Pstat1gen1" title="2021A0011M5P - Population,
2021 - Counts - Total"> 19,791</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh1 r1 geo2021A0011M6P
geo2021A0011M6Pstat1 geo2021A0011M6Pstat1gen1" title="2021A0011M6P - Population,
2021 - Counts - Total"> 39,870</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh1 r1 geo2021A0011M9P
geo2021A0011M9Pstat1 geo2021A0011M9Pstat1gen1" title="2021A0011M9P - Population,
2021 - Counts - Total"> 20,645</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh1 r1 geo2021A0011M1R
geo2021A0011M1Rstat1 geo2021A0011M1Rstat1gen1" title="2021A0011M1R - Population,
2021 - Counts - Total"> 30,467</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh1 r1 geo2021A0011M2R
geo2021A0011M2Rstat1 geo2021A0011M2Rstat1gen1" title="2021A0011M2R - Population,
2021 - Counts - Total"> 40,581</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh1 r1 geo2021A0011M4R
geo2021A0011M4Rstat1 geo2021A0011M4Rstat1gen1" title="2021A0011M4R - Population,
2021 - Counts - Total"> 11,909</td>
Number of tables found: 1
```

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<td class="text-right text-nowrap" headers="rh1 r1 geo2021A0011M5R
geo2021A0011M5Rstat1 geo2021A0011M5Rstat1gen1" title="2021A0011M5R - Population,
2021 - Counts - Total"> 26,197</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh1 r1 geo2021A0011M6R
geo2021A0011M6Rstat1 geo2021A0011M6Rstat1gen1" title="2021A0011M6R - Population,
2021 - Counts - Total"> 19,349</td>
Number of tables found: 0
No tables found on this page.
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh1 r1 geo2021A0011M9R
geo2021A0011M9Rstat1 geo2021A0011M9Rstat1gen1" title="2021A0011M9R - Population,
2021 - Counts - Total"> 33,783</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh1 r1 geo2021A0011M1S
geo2021A0011M1Sstat1 geo2021A0011M1Sstat1gen1" title="2021A0011M1S - Population,
2021 - Counts - Total"> 37,663</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh1 r1 geo2021A0011M4S
geo2021A0011M4Sstat1 geo2021A0011M4Sstat1gen1" title="2021A0011M4S - Population,
2021 - Counts - Total"> 30,754</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh1 r1 geo2021A0011M5S
geo2021A0011M5Sstat1 geo2021A0011M5Sstat1gen1" title="2021A0011M5S - Population,
2021 - Counts - Total"> 17,074</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh1 r1 geo2021A0011M6S
geo2021A0011M6Sstat1 geo2021A0011M6Sstat1gen1" title="2021A0011M6S - Population,
2021 - Counts - Total"> 34,029</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh1 r1 geo2021A0011M1T
geo2021A0011M1Tstat1 geo2021A0011M1Tstat1gen1" title="2021A0011M1T - Population,
2021 - Counts - Total"> 34,607</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh1 r1 geo2021A0011M4T
geo2021A0011M4Tstat1 geo2021A0011M4Tstat1gen1" title="2021A0011M4T - Population,
2021 - Counts - Total"> 10,332</td>
Number of tables found: 1
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geo2021A0011M5Tstat1 geo2021A0011M5Tstat1gen1" title="2021A0011M5T - Population,
2021 - Counts - Total"> 17,903</td>
Number of tables found: 1
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geo2021A0011M1Vstat1 geo2021A0011M1Vstat1gen1" title="2021A0011M1V - Population,
2021 - Counts - Total"> 50,825</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh1 r1 geo2021A0011M4V
geo2021A0011M4Vstat1 geo2021A0011M4Vstat1gen1" title="2021A0011M4V - Population,
```

2021 - Counts - Total"> 19,273</td>
Number of tables found: 1
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geo2021A0011M5Vstat1 geo2021A0011M5Vstat1gen1" title="2021A0011M5V - Population,
2021 - Counts - Total"> 59,912</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh1 r1 geo2021A0011M8V
geo2021A0011M8Vstat1 geo2021A0011M8Vstat1gen1" title="2021A0011M8V - Population,
2021 - Counts - Total"> 44,144</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh1 r1 geo2021A0011M9V
geo2021A0011M9Vstat1 geo2021A0011M9Vstat1gen1" title="2021A0011M9V - Population,
2021 - Counts - Total"> 53,878</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh1 r1 geo2021A0011M1W
geo2021A0011M1Wstat1 geo2021A0011M1Wstat1gen1" title="2021A0011M1W - Population,
2021 - Counts - Total"> 47,070</td>
Number of tables found: 1
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geo2021A0011M4Wstat1 geo2021A0011M4Wstat1gen1" title="2021A0011M4W - Population,
2021 - Counts - Total"> 15,296</td>
Number of tables found: 0
No tables found on this page.
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh1 r1 geo2021A0011M8W
geo2021A0011M8Wstat1 geo2021A0011M8Wstat1gen1" title="2021A0011M8W - Population,
2021 - Counts - Total"> 22,381</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh1 r1 geo2021A0011M9W
geo2021A0011M9Wstat1 geo2021A0011M9Wstat1gen1" title="2021A0011M9W - Population,
2021 - Counts - Total"> 40,977</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh1 r1 geo2021A0011M1X
geo2021A0011M1Xstat1 geo2021A0011M1Xstat1gen1" title="2021A0011M1X - Population,
2021 - Counts - Total"> 14,810</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh1 r1 geo2021A0011M4X
geo2021A0011M4Xstat1 geo2021A0011M4Xstat1gen1" title="2021A0011M4X - Population,
2021 - Counts - Total"> 19,896</td>
Number of tables found: 0
No tables found on this page.
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh1 r1 geo2021A0011M8X
geo2021A0011M8Xstat1 geo2021A0011M8Xstat1gen1" title="2021A0011M8X - Population,
2021 - Counts - Total"> 10,624</td>
Number of tables found: 0
No tables found on this page.
Number of tables found: 1

```
<td class="text-right text-nowrap" headers="rh1 r1 geo2021A0011M8Y
geo2021A0011M8Ystat1 geo2021A0011M8Ystat1gen1" title="2021A0011M8Y - Population,
2021 - Counts - Total"> 21,986</td>
Number of tables found: 1
<td class="text-right text-nowrap" headers="rh1 r1 geo2021A0011M8Z
geo2021A0011M8Zstat1 geo2021A0011M8Zstat1gen1" title="2021A0011M8Z - Population,
2021 - Counts - Total"> 19,312</td>
```

[16]: `df`

[16]:
```
    postal_code                                              data     value
0           M3A  2021A0011M3A - Population, 2021 - Counts - Total  34361.0
1           M4A  2021A0011M4A - Population, 2021 - Counts - Total  14589.0
2           M5A  2021A0011M5A - Population, 2021 - Counts - Total  48978.0
3           M6A  2021A0011M6A - Population, 2021 - Counts - Total  22380.0
4           M7A  2021A0011M7A - Population, 2021 - Counts - Total      5.0
..          ...                                              ...       ...
89          M1X  2021A0011M1X - Population, 2021 - Counts - Total  14810.0
90          M4X  2021A0011M4X - Population, 2021 - Counts - Total  19896.0
91          M8X  2021A0011M8X - Population, 2021 - Counts - Total  10624.0
92          M8Y  2021A0011M8Y - Population, 2021 - Counts - Total  21986.0
93          M8Z  2021A0011M8Z - Population, 2021 - Counts - Total  19312.0

[94 rows x 3 columns]
```

[17]:
```python
# Now you can export this to a CSV file for further analysis or visulization
df.to_csv('postal.csv')
```

[ ]: