

Venue_Analysis_of_Houston

November 15, 2018

1 Potential venue based On zip codes in Houston

1.1 Introduction

Opening a business/venue in a diverse metropolitan area such as Houston has always needed an indepth study of the neighborhoods of Houston. Houston has approximately 180 zip codes. In this study, we cluster the zip codes and consider each cluster as a super neighborhood. Next, based on the center of each cluster, we look for 100 venues in a 10 mile radius and rank them based on their frequency for each cluster. This study would be useful for any person interested in opening up a venue in Houston. By analyzing the final result yielded in this study, a business person can decide what venue is lacking in each cluster or what venue is prevalent in each cluster. After the decision is made on which cluster to choose, then a zip code within the cluster can also be chosen and the same analysis can be done based on a specific zip code.

1.2 Data

For this project we need the following data:

- Zip Codes in Houston
- Latitudes and Longitudes of Zip Codes

We will use the data available at <http://www.geonames.org/postalcode-search.html?q=Houston&country=US&adminCode1=TX> The GeoNames geographical database covers all countries and contains over eleven million placenames that are available for download free of charge.

Using BeautifulSoup4 package we will extract the table in the website.

Table would consist of 3 columns

- Zip Code
- Latitude
- Longitude

Zip Code column is of type integer and Latitude and Longitude are of type float. A rows example of the table is as follows:

```
In [136]: Houston_data[['Zip Code', 'Latitude', 'Longitude']].head()
```

```
Out[136]:
```

	Zip Code	Latitude	Longitude
0	77002	29.759	-95.359
1	77092	29.832	-95.472
2	77005	29.718	-95.426
3	77006	29.741	-95.392
4	77007	29.774	-95.403

Let's import required packages

```
In [137]: import numpy as np
import pandas as pd
from bs4 import BeautifulSoup
import requests

# 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
import folium # map rendering library
from pandas.io.json import json_normalize # tranform JSON file into a pandas dataframe

import matplotlib.cm as cm
import matplotlib.colors as colors
```

Let's read in the page including the table

```
In [138]: source = requests.get('http://www.geonames.org/postalcode-search.html?q=Houston&count=10')
soup = BeautifulSoup(source, 'lxml')
print(soup.prettify())
```

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<title>
Postal Codes Texas, United States
</title>
<link href="http://www.geonames.org/opensearch-description.xml" rel="search" title="geonames">
<link href="/geonames.ico" rel="shortcut icon"/>
<link href="/geonames.css" rel="StyleSheet" type="text/css"/>
</head>
<body>
<table cellpadding="0" cellspacing="0" id="topmenutable">
<tr>
<td class="topmenu">
<a href="/" title="GeoName Home">
GeoNames Home
</a>
```

```

|
<a href="/postal-codes/" title="Postal Codes">
  Postal Codes
</a>
|
<a href="/export/" title="Database Dump and Webservice API">
  Download / Webservice
</a>
|
<a href="/about.html" title="About GeoNames">
  About
</a>
</td>
<td class="topsearch">
  <form action="/servlet/geonames" class="topsearch" method="get" name="searchForm">
    search
    <input class="topmenu" name="q" size="20" type="text" value=""/>
    <input name="srv" type="hidden" value="1"/>
  </form>
  <span id="topmenulogin">
    <a href="http://www.geonames.org/login" title="login or create new user account">
      login
    </a>
  </span>
</td>
</tr>
</table>
<h3>
  Texas - postal codes
</h3>
<br/>
<br/>
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  <input name="q" size="40" type="text" value="Houston"/>
  <select name="country">
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      all countries
    </option>
    <option value="DZ">
      Algeria
    </option>
    <option value="AS">
      American Samoa
    </option>
    <option value="AD">
      Andorra
    </option>
    <option value="AR">

```

Argentina
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</option>
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Austria
</option>
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Bangladesh
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<option value="BY">
Belarus
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<option value="BE">
Belgium
</option>
<option value="BM">
Bermuda
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Costa Rica
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Croatia
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Czechia
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Micronesia
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 <option value="GB">
 United Kingdom
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 Uruguay
 </option>
 <option value="VA">


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    Vatican City
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    Wallis and Futuna
</option>
<option value="AX">
    Åland
</option>
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    </option>
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    </option>
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        Hawaii
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</option>
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  Illinois
</option>
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</option>
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</option>
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</option>
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</option>
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  South Carolina
</option>
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  South Dakota
</option>
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</option>
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```

    <option value="UT">
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    <option value="VA">
      Virginia
    </option>
    <option value="VT">
      Vermont
    </option>
    <option value="WA">
      Washington
    </option>
    <option value="WI">
      Wisconsin
    </option>
    <option value="WV">
      West Virginia
    </option>
    <option value="WY">
      Wyoming
    </option>
  </select>
  <input type="submit" value="search"/>
</form>
<small>
  Either enter a postal code (eg. "9011", "AB1", "9980-999") or a city (eg. "London")
</small>
<table style="margin:auto; text-align:left; ">
  <tr>
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        <!--
google_ad_client = "pub-8752809630410472";
/* postalcodes160x600 */
google_ad_slot = "7311338040";
google_ad_width = 160;
google_ad_height = 600;
//-->
      </script>
      <script src="http://pagead2.googlesyndication.com/pagead/show_ads.js" type="text/javascript">
      </script>
    </td>
    <td width="5%">
    </td>
    <td valign="top">
      <table class="restable">
        <tr>
          <th>

```

```

</th>
<th>
  Place
</th>
<th>
  Code
</th>
<th>
  Country
</th>
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  Admin1
</th>
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  Admin2
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<th>
  Admin3
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<td>
  <small>
    1
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</td>
<td>
  Houston
</td>
<td>
  77002
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</td>
<td>
  Texas
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<td>
  Harris
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```

```

    <a href="/maps/browse_29.759_-95.359.html" rel="nofollow">
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    </a>
  </td>
</tr>
<tr class="odd">
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    </small>
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    Texas
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    Harris
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```

Houston	77005	United States	Texas	Harris	
 <small>29.718/-95.426</small> 					
Houston	77006	United States	Texas		

```

        Harris
    </td>
    <td>
    </td>
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    </td>
</tr>
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        77007
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        United States
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        Texas
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    <td>
        Harris
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            </small>

```



```

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        </small>
    </td>
    <td>
        Houston
    </td>
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```

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77024
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        8
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    Houston
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<td>
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    Texas
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<td>
    Harris
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```

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```

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  Houston
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  Texas
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<td>
  Harris
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    </a>
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<tr>
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  <td>
    77032
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  <td>
    United States

```

```

</td>
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    Harris
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</td>
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        </small>
    </a>
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</tr>
<tr class="odd">
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<td>
    Texas
</td>
<td>
    Harris
</td>
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    </small>
  </a>
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</tr>
<tr>
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      13
    </small>
  </td>
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  </td>
  <td>
    77042
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    United States
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  <td>
    Texas
  </td>
  <td>
    Harris
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      14
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```

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    77054
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    Texas
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    Harris
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    </small>
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    Houston
</td>
<td>
    77056
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<td>
    United States
</td>
<td>
    Texas
</td>

```

```

<td>
  Harris
</td>
<td>
</td>
</tr>
<tr>
<td>
</td>
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  Texas
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  Harris
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        </small>
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        17
      </small>
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    <td>
      Houston
    </td>
    <td>
      77058
    </td>
    <td>
      United States
    </td>
    <td>
      Texas
    </td>
    <td>
      Harris
    </td>
    <td>
    </td>
  </tr>
  <tr>
    <td>
    </td>
    <td colspan="6">
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        </small>
      </a>
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        18
      </small>
    </td>
    <td>
      Houston
    </td>

```

```

<td>
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</td>
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</td>
<td>
  Texas
</td>
<td>
  Harris
</td>
<td>
</td>
</tr>
<tr class="odd">
<td>
</td>
<td colspan="6">
  <a href="/maps/browse_29.933_-95.398.html" rel="nofollow">
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    </small>
  </a>
</td>
</tr>
<tr>
<td>
  <small>
    19
  </small>
</td>
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</td>
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<td>
  United States
</td>
<td>
  Texas
</td>
<td>
  Harris
</td>
<td>

```

```

    </td>
</tr>
<tr>
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|  |  | 77065 | United States |  |
|  | Texas |  | Harris |  |
|  |  |  |  |  |
|  |  |  |  |  |

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 Texas | Harris |  |  ||  | 29.785/-95.185 | | |
| 49 |  | | |
| Houston | 77016 | United States | Texas |
| Harris |  |  |  |
|  |  | | |

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    Texas
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Houston	77020	United States	Texas	Harris	
 <small> 29.776/-95.312 </small> 					
Houston	77021	United States	Texas		

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        Texas
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| United States |  | Texas |  |  |
|  |  | Harris |  |  |
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        Texas
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Houston					
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United States					
Texas					
Harris					

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77082					
United States					
Texas					
Harris					

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 Texas | Harris |  |  |  |  ||  | 29.862/-95.34 | | | | | |
| 97 | Houston | 77095 | United States | Texas | Harris |  |
|  |  | | | | | |

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|  | | |

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  Houston
</td>
<td>
  77288
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  United States
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  Texas
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<td>
  Harris
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</td>
<td colspan="6">
  <a href="/maps/browse_29.834_-95.434.html" rel="nofollow">
    <small>
      29.834/-95.434
    </small>
  </a>
</td>
</tr>
<tr class="odd">
<td>
  <small>

```

```

        180
      </small>
    </td>
    <td>
      Houston
    </td>
    <td>
      77289
    </td>
    <td>
      United States
    </td>
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      Texas
    </td>
    <td>
      Harris
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  </tr>
  <tr class="odd">
    <td>
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    <td colspan="6">
      <a href="/maps/browse_29.834_-95.434.html" rel="nofollow">
        <small>
          29.834/-95.434
        </small>
      </a>
    </td>
  </tr>
  <tr>
    <td>
      <small>
        181
      </small>
    </td>
    <td>
      Houston
    </td>
    <td>
      77290
    </td>
    <td>
      United States
    </td>
    <td>

```



```

        Texas
    </td>
    <td>
        Harris
    </td>
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<tr>
    <td>
    </td>
    <td colspan="6">
        <a href="/maps/browse_29.834_-95.434.html" rel="nofollow">
            <small>
                29.834/-95.434
            </small>
        </a>
    </td>
</tr>
<tr class="odd">
    <td>
        <small>
            182
        </small>
    </td>
    <td>
        Houston
    </td>
    <td>
        77291
    </td>
    <td>
        United States
    </td>
    <td>
        Texas
    </td>
    <td>
        Harris
    </td>
    <td>
    </td>
</tr>
<tr class="odd">
    <td>
    </td>
    <td colspan="6">
        <a href="/maps/browse_29.834_-95.434.html" rel="nofollow">

```

```

        <small>
            29.834/-95.434
        </small>
    </a>
</td>
</tr>
<tr>
    <td>
        <small>
            183
        </small>
    </td>
    <td>
        Houston
    </td>
    <td>
        77292
    </td>
    <td>
        United States
    </td>
    <td>
        Texas
    </td>
    <td>
        Harris
    </td>
    <td>
    </td>
</tr>
<tr>
    <td>
    </td>
    <td colspan="6">
        <a href="/maps/browse_29.744_-95.333.html" rel="nofollow">
            <small>
                29.744/-95.333
            </small>
        </a>
    </td>
</tr>
<tr class="odd">
    <td>
        <small>
            184
        </small>
    </td>
    <td>

```

Houston					
77293					
United States					
Texas					
Harris					

 <small>29.834/-95.434</small> 					

185					
Houston					
77299					
United States					
Texas					
Harris					

```

</td>
<td>
</td>
</tr>
<tr>
<td>
</td>
<td colspan="6">
  <a href="/maps/browse_29.834_-95.434.html" rel="nofollow">
    <small>
      29.834/-95.434
    </small>
  </a>
</td>
</tr>
<tr class="odd">
<td>
  <small>
    186
  </small>
</td>
<td>
  Crockett
</td>
<td>
  75835
</td>
<td>
  United States
</td>
<td>
  Texas
</td>
<td>
  Houston
</td>
<td>
</td>
</tr>
<tr class="odd">
<td>
</td>
<td colspan="6">
  <a href="/maps/browse_31.321_-95.393.html" rel="nofollow">
    <small>
      31.321/-95.393
    </small>
  </a>

```

```

    </td>
</tr>
<tr>
  <td>
    <small>
      187
    </small>
  </td>
  <td>
    Latexo
  </td>
  <td>
    75849
  </td>
  <td>
    United States
  </td>
  <td>
    Texas
  </td>
  <td>
    Houston
  </td>
  <td>
  </td>
</tr>
<tr>
  <td>
  </td>
  <td colspan="6">
    <a href="/maps/browse_31.395_-95.474.html" rel="nofollow">
      <small>
        31.395/-95.474
      </small>
    </a>
  </td>
</tr>
<tr class="odd">
  <td>
    <small>
      188
    </small>
  </td>
  <td>
    Houston
  </td>
  <td>
    77297

```

```

        </td>
        <td>
            United States
        </td>
        <td>
            Texas
        </td>
        <td>
            Harris
        </td>
        <td>
        </td>
    </tr>
    <tr class="odd">
        <td>
        </td>
        <td colspan="6">
            <a href="/maps/browse_29.763_-95.363.html" rel="nofollow">
                <small>
                    29.763/-95.363
                </small>
            </a>
        </td>
    </tr>
    <tr class="tfooter">
        <td colspan="7">
        </td>
    </tr>
</table>
</td>
</tr>
</table>
<p>
</p>
<p>
</p>
<p>
</p>
<p>
</p>
<p>
</p>
<div id="pageFooter">
    info@geonames.org
    
    <p>
        <a href="/">
            GeoNames Home
        </a>
        <span class="separator">

```

```

</span>
<a href="/postal-codes/">
  Postal Codes
</a>
<span class="separator">

</span>
<a href="/export/">
  Download / Webservice
</a>
<span class="separator">

</span>
<a href="http://forum.geonames.org">
  Forum
</a>
<span class="separator">

</span>
<a href="http://geonames.wordpress.com">
  Blog
</a>
<span class="separator">

</span>
<a href="/sitemap.html">
  Sitemap
</a>
</p>
</div>
</body>
</html>

```

Let's read the table in page and turn it into a data frame

```

In [139]: data = []
          table = soup.find('table',{'class':'restable'})

          rows = table.find_all('tr')
          for row in rows:
              cols = row.find_all('td')
              cols = [ele.text.strip() for ele in cols]
              data.append([ele for ele in cols if ele])

          data = data[1:]

```

```

Houston = []
latlong = data[1::2]
latlong
zip_code = []
for ele in data:
    if len(ele) > 2:
        zip_code.append(ele[2])

Houston_zip = []
for ele in range(len(zip_code)):
    Houston_zip.append(int(zip_code[ele]))

Houston_zip # One part of our data is good to go

Houston_latitude = []
Houston_longitude = []

for ele in range(len(latlong)):
    for elem in latlong[ele]:
        k = elem.split('/')
        Houston_latitude.append(float(k[0]))
        Houston_longitude.append(float(k[1]))

# Now we have all three columns required
Houston_data = pd.DataFrame({'Zip Code': Houston_zip, 'Latitude' : Houston_latitude, 'Longitude' : Houston_longitude,
                             columns=['Zip Code', 'Latitude', 'Longitude']})

```

Houston_data

```

Out[139]:

```

	Zip Code	Latitude	Longitude
0	77002	29.759	-95.359
1	77092	29.832	-95.472
2	77005	29.718	-95.426
3	77006	29.741	-95.392
4	77007	29.774	-95.403
5	77019	29.752	-95.405
6	77024	29.770	-95.520
7	77025	29.689	-95.434
8	77027	29.740	-95.446
9	77030	29.704	-95.401
10	77032	29.937	-95.330
11	77040	29.874	-95.528
12	77042	29.740	-95.559
13	77054	29.685	-95.402
14	77056	29.745	-95.468
15	77057	29.742	-95.490

16	77058	29.572	-95.100
17	77060	29.933	-95.398
18	77061	29.665	-95.279
19	77070	29.978	-95.580
20	77074	29.690	-95.511
21	77077	29.748	-95.603
22	77079	29.774	-95.598
23	77090	30.017	-95.447
24	77098	29.735	-95.412
25	77003	29.749	-95.339
26	77004	29.725	-95.363
27	77008	29.799	-95.412
28	77010	29.754	-95.361
29	77017	29.686	-95.255
..
158	77261	29.834	-95.434
159	77262	29.834	-95.434
160	77263	29.834	-95.434
161	77265	29.834	-95.434
162	77266	29.834	-95.434
163	77267	29.834	-95.434
164	77268	29.834	-95.434
165	77269	29.834	-95.434
166	77270	29.834	-95.434
167	77271	29.834	-95.434
168	77272	29.834	-95.434
169	77273	29.834	-95.434
170	77274	29.834	-95.434
171	77275	29.834	-95.434
172	77277	29.834	-95.434
173	77279	29.834	-95.434
174	77280	29.834	-95.434
175	77282	29.834	-95.434
176	77284	29.834	-95.434
177	77287	29.834	-95.434
178	77288	29.834	-95.434
179	77289	29.834	-95.434
180	77290	29.834	-95.434
181	77291	29.834	-95.434
182	77292	29.744	-95.333
183	77293	29.834	-95.434
184	77299	29.834	-95.434
185	75835	31.321	-95.393
186	75849	31.395	-95.474
187	77297	29.763	-95.363

[188 rows x 3 columns]

So based on the above table Houston has 188 zip codes

1.3 Methodology

Clustering as an unsupervised machine learning technique can help us in grouping similar zip codes and construct different clusters of neighborhood for Houston metropolitan area. In this analysis we use kmeans method for clustering. We use K = 15 as it is prevalent knowledge in Houston that, houston consists of 15 super neighborhoods.

1.3.1 Let's Create the map of Houston

```
In [140]: #!/conda install -c conda-forge geopy --yes # uncomment this line if you haven't comp
          from geopy.geocoders import Nominatim

          address = 'Houston, TX'

          geolocator = Nominatim()
          location = geolocator.geocode(address)
          latitude = location.latitude
          longitude = location.longitude
          print('The geographical coordinate of Houston are {},{}'.format(latitude,longitude))

/anaconda3/lib/python3.6/site-packages/geopy/geocoders/osm.py:143: UserWarning: Using Nominatim
UserWarning
```

The geographical coordinate of Houston are 29.7589382,-95.3676974.

```
In [141]: map_Houston = folium.Map(location=[latitude,longitude],zoom_start=10)
          map_Houston
```

```
Out[141]: <folium.folium.Map at 0x1a200bb8d0>
```

Now let's also show different zip code and their area

```
In [142]: for lat, lng, zip_code in zip(Houston_data['Latitude'], Houston_data['Longitude'], H
          label = '{}'.format(zip_code)
          label = folium.Popup(label, parse_html=True)
          folium.CircleMarker(
              [lat, lng],
              radius=3,
              popup=label,
              color='blue',
              fill=True,
              fill_color='#3186cc',
              fill_opacity=0.7,
              parse_html=False).add_to(map_Houston)

          map_Houston
```

```
Out[142]: <folium.folium.Map at 0x1a200bb8d0>
```

In next step we cluster the zip codes into 15 clusters (Choice of k=15 is arbitrary)

```
In [143]: num_clusters = 15
kmeans = KMeans(n_clusters=num_clusters,random_state=0).fit(Houston_data[['Latitude',
Houston_data['Cluster_label'] = kmeans.labels_
Lat = []
Long = []
for i in range(len(kmeans.cluster_centers_)):
    Lat.append(kmeans.cluster_centers_[i][0])
    Long.append(kmeans.cluster_centers_[i][1])

cluster_id = ['Cluster {}'.format(i) for i in range(15)]
centers = pd.DataFrame({'Cluster ID':cluster_id,'Cluster Center Lat':Lat,'Cluster Center Long':Long})

Houston_data[Houston_data.Cluster_label==4]
Houston_data
```

```
Out[143]:
```

	Zip Code	Latitude	Longitude	Cluster_label
0	77002	29.759	-95.359	7
1	77092	29.832	-95.472	3
2	77005	29.718	-95.426	11
3	77006	29.741	-95.392	7
4	77007	29.774	-95.403	7
5	77019	29.752	-95.405	7
6	77024	29.770	-95.520	5
7	77025	29.689	-95.434	11
8	77027	29.740	-95.446	11
9	77030	29.704	-95.401	7
10	77032	29.937	-95.330	12
11	77040	29.874	-95.528	10
12	77042	29.740	-95.559	5
13	77054	29.685	-95.402	11
14	77056	29.745	-95.468	11
15	77057	29.742	-95.490	11
16	77058	29.572	-95.100	6
17	77060	29.933	-95.398	12
18	77061	29.665	-95.279	9
19	77070	29.978	-95.580	10
20	77074	29.690	-95.511	11
21	77077	29.748	-95.603	5
22	77079	29.774	-95.598	5
23	77090	30.017	-95.447	14
24	77098	29.735	-95.412	7
25	77003	29.749	-95.339	7
26	77004	29.725	-95.363	7

27	77008	29.799	-95.412	3
28	77010	29.754	-95.361	7
29	77017	29.686	-95.255	9
..
158	77261	29.834	-95.434	3
159	77262	29.834	-95.434	3
160	77263	29.834	-95.434	3
161	77265	29.834	-95.434	3
162	77266	29.834	-95.434	3
163	77267	29.834	-95.434	3
164	77268	29.834	-95.434	3
165	77269	29.834	-95.434	3
166	77270	29.834	-95.434	3
167	77271	29.834	-95.434	3
168	77272	29.834	-95.434	3
169	77273	29.834	-95.434	3
170	77274	29.834	-95.434	3
171	77275	29.834	-95.434	3
172	77277	29.834	-95.434	3
173	77279	29.834	-95.434	3
174	77280	29.834	-95.434	3
175	77282	29.834	-95.434	3
176	77284	29.834	-95.434	3
177	77287	29.834	-95.434	3
178	77288	29.834	-95.434	3
179	77289	29.834	-95.434	3
180	77290	29.834	-95.434	3
181	77291	29.834	-95.434	3
182	77292	29.744	-95.333	7
183	77293	29.834	-95.434	3
184	77299	29.834	-95.434	3
185	75835	31.321	-95.393	8
186	75849	31.395	-95.474	8
187	77297	29.763	-95.363	7

[188 rows x 4 columns]

and we visualize the resulting clusters

```
In [144]: # create map
map_clusters = folium.Map(location=[latitude, longitude], zoom_start=9)

# set color scheme for the clusters
x = np.arange(num_clusters)
ys = [i+x+(i*x)**2 for i in range(num_clusters)]
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, zip_code, cluster in zip(Houston_data['Latitude'], Houston_data['Longitude'], Houston_data['zip_code'], Houston_data['cluster']):
    label = folium.Popup(str(zip_code) + ' Cluster ' + str(cluster), parse_html=True)
    folium.CircleMarker(
        [lat, lon],
        radius=2,
        popup=label,
        color=rainbow[cluster-1],
        fill=True,
        fill_color=rainbow[cluster-1],
        fill_opacity=0.7).add_to(map_clusters)

map_clusters

```

Out[144]: <folium.folium.Map at 0x1a203d9b00>

Now, let's get the top 50 venues that are in each cluster (if exists) within a radius of 5 miles. First, let's create the GET request URL. Name your URL **url**.

Define Foursquare Credentials and Version

```

In [145]: CLIENT_ID = 'INZNX14GS3IMP5RBM5U0552GMEZTOFP12GOUAHZO10AIP LPU' # your Foursquare ID
CLIENT_SECRET = 'ZOPPSDLYKDHPNCOK5BZQR2VUZSHHINGQSSEXNQGBI5140DIN' # your Foursquare secret
VERSION = '20180605' # Foursquare API version

print('Your credentials:')
print('CLIENT_ID: ' + CLIENT_ID)
print('CLIENT_SECRET: ' + CLIENT_SECRET)

```

Your credentials:

```

CLIENT_ID: INZNX14GS3IMP5RBM5U0552GMEZTOFP12GOUAHZO10AIP LPU
CLIENT_SECRET: ZOPPSDLYKDHPNCOK5BZQR2VUZSHHINGQSSEXNQGBI5140DIN

```

First, let's create the GET request URL for cluster 0. Name your URL **url**.

```

In [146]: LIMIT = 100
radius = 5000 * 1.64
url = 'https://api.foursquare.com/v2/venues/explore?&client_id={}&client_secret={}&v={}&radius={}&limit={}&lat={}&lon={}&version={}&fields={}'
      .format(
        CLIENT_ID,
        CLIENT_SECRET,
        VERSION,
        centers.iloc[0,0],
        centers.iloc[0,1],
        radius,
        LIMIT)

```

Send the GET request and examine the results

```
In [147]: results = requests.get(url).json()
          results
```

```
Out[147]: {'meta': {'code': 400,
                    'errorDetail': 'll must be of the form XX.XX,YY.YY (received Cluster 0,29.813875)',
                    'errorType': 'param_error',
                    'requestId': '5bed7991f594df23abfcfd22'},
           'response': {}}
```

We know that all the information is in the *items* key. Before we proceed, let's borrow the `get_category_type` function from the Foursquare.

```
In [148]: # function that extracts the category of the venue
def get_category_type(row):
    try:
        categories_list = row['categories']
    except:
        categories_list = row['venue.categories']

    if len(categories_list) == 0:
        return None
    else:
        return categories_list[0]['name']
```

Now we are ready to clean the json and structure it into a *pandas* dataframe.

```
In [149]: venues = results['response']['groups'][0]['items']

nearby_venues = json_normalize(venues) # flatten JSON

# filter columns
filtered_columns = ['venue.name', 'venue.categories', 'venue.location.lat', 'venue.lo
nearby_venues = nearby_venues.loc[:, filtered_columns]

# filter the category for each row
nearby_venues['venue.categories'] = nearby_venues.apply(get_category_type, axis=1)

# clean columns
nearby_venues.columns = [col.split(".")[0] for col in nearby_venues.columns]

nearby_venues
```

KeyError

Traceback (most recent call last)

```

<ipython-input-149-d999b531c66b> in <module>()
----> 1 venues = results['response']['groups'][0]['items']
      2
      3 nearby_venues = json_normalize(venues) # flatten JSON
      4
      5 # filter columns

```

KeyError: 'groups'

This was the venues in 5 miles radius from center of cluster 0

1.4 Explore other clusters in Houston

Let's create a function to repeat the same process to all the clusters

```
In [ ]: def getNearbyVenues(names, latitudes, longitudes, radius=5000*1.64):
```

```

    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={}&lat={}&lng={}&radius={}&limit={}'
        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)

```

1.4.1 Now let's start exploring cluster 1 - cluster 14

```

In [ ]: Houston_venues = getNearbyVenues(names=centers['Cluster ID'],
                                         latitudes = centers['Cluster Center Lat'],
                                         longitudes = centers['Cluster Center Long'])

```

```
Houston_venues.head()
```

Let's check how many venues were returned for each cluster

```
In [ ]: Houston_venues.groupby('Neighborhood').count()
```

We will drop clusters with less than 100 venues

```

In [ ]: Houston_venues.drop(Houston_venues[Houston_venues['Neighborhood']=='Cluster 1'].index,
                             Houston_venues.drop(Houston_venues[Houston_venues['Neighborhood']=='Cluster 2'].index,

Houston_venues.drop(Houston_venues[Houston_venues['Neighborhood']=='Cluster 4'].index,
Houston_venues.drop(Houston_venues[Houston_venues['Neighborhood']=='Cluster 8'].index,
Houston_venues.drop(Houston_venues[Houston_venues['Neighborhood']=='Cluster 13'].index

```

```
In [ ]: Houston_venues.head()
```

```
In [ ]: Houston_venues.groupby('Neighborhood').count()
```

Let's find out how many unique categories can be curated from all the returned venues

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

1.5 Analyze Each cluster

```

In [ ]: # one hot encoding
Houston_onehot = pd.get_dummies(Houston_venues[['Venue Category']], prefix="", prefix_sep="",
                                 dtype=int, sparse=True)

# add neighborhood column back to dataframe
Houston_onehot['Neighborhood'] = Houston_venues['Neighborhood']

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

Houston_onehot.head()

```


And let's examine the new dataframe size.

```
In [ ]: Houston_onehot.shape
```

Next, let's group rows by neighborhood and by taking the mean of the frequency of occurrence of each category

```
In [ ]: Houston_grouped = Houston_onehot.groupby('Neighborhood').mean().reset_index()
Houston_grouped
```

Let's confirm the new size

```
In [ ]: Houston_grouped.shape
```

Let's print each neighborhood along with the top 10 most common venues

```
In [ ]: num_top_venues = 20

for hood in Houston_grouped['Neighborhood']:
    print("----"+hood+"----")
    temp = Houston_grouped[Houston_grouped['Neighborhood'] == hood].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')
```

Let's put that into a *pandas* dataframe First, let's write a function to sort the venues in descending order.

```
In [ ]: 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]
```

Now let's create the new dataframe and display the top 20 venues for each neighborhood.

```
In [151]: num_top_venues = 20

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]))
    except:
```

```

columns.append('{}th Most Common Venue'.format(ind+1))

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

for ind in np.arange(Houston_grouped.shape[0]):
    neighborhoods_venues_sorted.iloc[ind, 1:] = return_most_common_venues(Houston_gr

```

1.6 Result

Based on the clustering of zip codes in Houston and then using the center of each cluster to find 100 venues in 5 miles radius, the following table is yielded. The following table lists the top 20 venues for each cluster.

In [153]: neighborhoods_venues_sorted

```

Out[153]:
  Neighborhood 1st Most Common Venue 2nd Most Common Venue \
0      Cluster 0      Mexican Restaurant      Discount Store
1      Cluster 10      Coffee Shop      Mexican Restaurant
2      Cluster 11      Burger Joint      Ice Cream Shop
3      Cluster 12      Mexican Restaurant      Hotel
4      Cluster 14      Seafood Restaurant      Mexican Restaurant
5      Cluster 2      Hotel      Cocktail Bar
6      Cluster 3      Burger Joint      Coffee Shop
7      Cluster 5      Grocery Store      Mexican Restaurant
8      Cluster 6      Sushi Restaurant      Grocery Store
9      Cluster 7      Pizza Place      Coffee Shop
10     Cluster 9      Mexican Restaurant      Burger Joint

      3rd Most Common Venue 4th Most Common Venue 5th Most Common Venue \
0      Sandwich Place      Seafood Restaurant      Ice Cream Shop
1      Burger Joint      Fast Food Restaurant      Asian Restaurant
2      American Restaurant      Sushi Restaurant      Steakhouse
3      Burger Joint      Seafood Restaurant      Sandwich Place
4      American Restaurant      Fast Food Restaurant      Italian Restaurant
5      Coffee Shop      Mexican Restaurant      American Restaurant
6      BBQ Joint      Sports Bar      Bar
7      Park      Fast Food Restaurant      Burger Joint
8      Mexican Restaurant      Coffee Shop      Science Museum
9      Park      Bar      Cocktail Bar
10     Fast Food Restaurant      Vietnamese Restaurant      Seafood Restaurant

      6th Most Common Venue 7th Most Common Venue      8th Most Common Venue \
0      BBQ Joint      Pharmacy      Pizza Place
1      Hotel      Pharmacy      BBQ Joint
2      Clothing Store      Café      Dessert Shop
3      Rental Car Location      Discount Store      Pharmacy

```

4	Coffee Shop	Pharmacy	Grocery Store
5	Beer Garden	Ice Cream Shop	Theater
6	Italian Restaurant	Taco Place	Beer Garden
7	Pizza Place	Pub	Asian Restaurant
8	Bakery	American Restaurant	Park
9	Mexican Restaurant	Vietnamese Restaurant	American Restaurant
10	Diner	Convenience Store	Cajun / Creole Restaurant

	9th Most Common Venue	...	\
0	Burger Joint	...	
1	Sushi Restaurant	...	
2	Mexican Restaurant	...	
3	Donut Shop	...	
4	Smoothie Shop	...	
5	Plaza	...	
6	Mexican Restaurant	...	
7	Cajun / Creole Restaurant	...	
8	Cocktail Bar	...	
9	Brewery	...	
10	Breakfast Spot	...	

	11th Most Common Venue	12th Most Common Venue	\
0	American Restaurant	Park	
1	American Restaurant	Fried Chicken Joint	
2	Smoke Shop	Bakery	
3	Cajun / Creole Restaurant	Furniture / Home Store	
4	Breakfast Spot	Cajun / Creole Restaurant	
5	Sandwich Place	Steakhouse	
6	Fast Food Restaurant	Gym / Fitness Center	
7	Latin American Restaurant	Vietnamese Restaurant	
8	Cosmetics Shop	Spa	
9	Beer Garden	Wine Bar	
10	Bakery	Park	

	13th Most Common Venue	14th Most Common Venue	\
0	Gym / Fitness Center	Department Store	
1	Italian Restaurant	Cajun / Creole Restaurant	
2	Shopping Mall	Seafood Restaurant	
3	Electronics Store	Flea Market	
4	Steakhouse	Jewelry Store	
5	Restaurant	Historic Site	
6	Wine Bar	Seafood Restaurant	
7	Mediterranean Restaurant	Noodle House	
8	Liquor Store	Sandwich Place	
9	Concert Hall	Cajun / Creole Restaurant	
10	BBQ Joint	Discount Store	

15th Most Common Venue	16th Most Common Venue	\
------------------------	------------------------	---

0	Video Game Store	Taco Place
1	Deli / Bodega	Pizza Place
2	Cajun / Creole Restaurant	Fried Chicken Joint
3	Ice Cream Shop	Grocery Store
4	Pizza Place	Park
5	Lounge	Concert Hall
6	Park	Cocktail Bar
7	Liquor Store	Café
8	Sporting Goods Shop	Furniture / Home Store
9	Baseball Stadium	Burger Joint
10	Sporting Goods Shop	Sports Bar

	17th Most Common Venue	18th Most Common Venue	19th Most Common Venue \
0	Fast Food Restaurant	Fried Chicken Joint	Steakhouse
1	Donut Shop	Grocery Store	Vietnamese Restaurant
2	Deli / Bodega	Department Store	Jewelry Store
3	American Restaurant	Fast Food Restaurant	Brewery
4	Donut Shop	Bar	Bookstore
5	New American Restaurant	Dessert Shop	Italian Restaurant
6	Donut Shop	Brewery	Pizza Place
7	Department Store	Bookstore	Middle Eastern Restaurant
8	Chinese Restaurant	Breakfast Spot	Pizza Place
9	Steakhouse	Breakfast Spot	Theater
10	Coffee Shop	Ice Cream Shop	Hotel

	20th Most Common Venue
0	Grocery Store
1	Liquor Store
2	Electronics Store
3	Chinese Restaurant
4	Toy / Game Store
5	Church
6	Chinese Restaurant
7	Seafood Restaurant
8	Burger Joint
9	Art Museum
10	American Restaurant

[11 rows x 21 columns]

1.7 Discussion

The resulted table would be of a great help to any business person in need of a geolocation analysis of venues in greater Houston metropolitan area. For example, if you as a business person want to open up a Mexican Restaurant it is strong evidence that cluster 0,9,12 are the best clusters in houston for mexican restaurant. These clusters include zip codes that can be found using **Houston_data** table. Further analysis can be made when the selection of cluster is done. There, we could analyze a neighborhood by clustering the zip codes in neighborhood and do the same

analysis that we did here to get one step closer to a better zip code to establish the venue.

1.8 Conclusion

Based on the above table and map of clusters provided above, any person who wants to establish a venue can decide where is the best cluster and where are the best zip codes to establish his or her venue.