DP0701EN-3-3-2-Neighborhoods-New-York-py-v1.0

December 19, 2018

Segmenting and Clustering Neighborhoods in New York City

0.1 Introduction

In this lab, you will learn how to convert addresses into their equivalent latitude and longitude values. Also, you will use the Foursquare API to explore neighborhoods in New York City. You will use the **explore** function to get the most common venue categories in each neighborhood, and then use this feature to group the neighborhoods into clusters. You will use the *k*-means clustering algorithm to complete this task. Finally, you will use the Folium library to visualize the neighborhoods in New York City and their emerging clusters.

0.2 Table of Contents

- 1. Download and Explore Dataset
- 2. Explore Neighborhoods in New York City
- 3. Analyze Each Neighborhood
- 4. Cluster Neighborhoods
- 5. Examine Clusters

Before we get the data and start exploring it, let's download all the dependencies that we will need.

```
In [1]: import numpy as np # library to handle data in a vectorized manner
    import pandas as pd # library for data analsysis
    pd.set_option('display.max_columns', None)
    pd.set_option('display.max_rows', None)
    import json # library to handle JSON files
    !conda install -c conda-forge geopy --yes # uncomment this line if you haven to the prome geopy.geocoders import Nominatim # convert an address into latitude and longitude in import requests # library to handle requests
```

```
from pandas.io.json import json_normalize # tranform JSON file into a pandas dataframe
       # Matplotlib and associated plotting modules
       import matplotlib.cm as cm
       import matplotlib.colors as colors
       # import k-means from clustering stage
       from sklearn.cluster import KMeans
       !conda install -c conda-forge folium=0.5.0 --yes # uncomment this line if you haven't co
       import folium # map rendering library
       print('Libraries imported.')
Solving environment: done
## Package Plan ##
 environment location: /home/jupyterlab/conda
 added / updated specs:
   - geopy
The following packages will be downloaded:
   package
                                        build
   geopy-1.18.1
                                         ру_0
                                                    51 KB conda-forge
   conda-4.5.12
                                   py36_1000
                                                     653 KB conda-forge
   geographiclib-1.49
                                                     32 KB conda-forge
                                       Total:
                                                    737 KB
The following NEW packages will be INSTALLED:
   geographiclib: 1.49-py_0
                              conda-forge
                1.18.1-py_0
                              conda-forge
The following packages will be UPDATED:
   conda:
               4.5.12-py36_0 --> 4.5.12-py36_1000 conda-forge
Downloading and Extracting Packages
                  | 51 KB | ################################ | 100%
geopy-1.18.1
conda-4.5.12
                  | 653 KB
                              | #################################### | 100%
                            geographiclib-1.49 | 32 KB
```

Preparing transaction: done Verifying transaction: done Executing transaction: done Solving environment: done

Package Plan

environment location: /home/jupyterlab/conda

added / updated specs:

- folium=0.5.0

The following packages will be downloaded:

package	build		
vincent-0.4.4	py_1	28 KB	conda-forge
branca-0.3.1	py_0	25 KB	conda-forge
altair-2.3.0	py36_1001	533 KB	conda-forge
pandas-0.23.4	py36hf8a1672_0	27.8 MB	conda-forge
folium-0.5.0	py_0	45 KB	conda-forge
	Total:	28.4 MB	

The following NEW packages will be INSTALLED:

altair: 2.3.0-py36_1001 conda-forge branca: 0.3.1-py_0 conda-forge folium: 0.5.0-py_0 conda-forge vincent: 0.4.4-py_1 conda-forge

The following packages will be UPDATED:

pandas: 0.23.4-py37h04863e7_0 --> 0.23.4-py36hf8a1672_0 conda-forge

Downloading and Extracting Packages

vincent-0.4.4	28 KB	#######################################	100%
branca-0.3.1	25 KB	#######################################	100%
altair-2.3.0	533 KB	#######################################	100%
pandas-0.23.4	27.8 MB	#######################################	100%
folium-0.5.0	45 KB	#######################################	100%

Preparing transaction: done Verifying transaction: done Executing transaction: done

Libraries imported.

0.3 1. Download and Explore Dataset

Neighborhood has a total of 5 boroughs and 306 neighborhoods. In order to segement the neighborhoods and explore them, we will essentially need a dataset that contains the 5 boroughs and the neighborhoods that exist in each borough as well as the the latitude and logitude coordinates of each neighborhood.

Luckily, this dataset exists for free on the web. Feel free to try to find this dataset on your own, but here is the link to the dataset: https://geo.nyu.edu/catalog/nyu_2451_34572

For your convenience, I downloaded the files and placed it on the server, so you can simply run a wget command and access the data. So let's go ahead and do that.

Data downloaded!

Load and explore the data Next, let's load the data.

Let's take a quick look at the data.

Notice how all the relevant data is in the *features* key, which is basically a list of the neighborhoods. So, let's define a new variable that includes this data.

```
In [5]: neighborhoods_data = newyork_data['features']
```

Let's take a look at the first item in this list.

```
In [6]: neighborhoods_data[0]
Out[6]: {'type': 'Feature',
         'id': 'nyu_2451_34572.1',
         'geometry': {'type': 'Point',
          'coordinates': [-73.84720052054902, 40.89470517661]},
         'geometry_name': 'geom',
         'properties': {'name': 'Wakefield',
          'stacked': 1,
          'annoline1': 'Wakefield',
          'annoline2': None,
          'annoline3': None,
          'annoangle': 0.0,
          'borough': 'Bronx',
          'bbox': [-73.84720052054902,
           40.89470517661,
           -73.84720052054902,
           40.89470517661]}}
```

Tranform the data into a *pandas* **dataframe** The next task is essentially transforming this data of nested Python dictionaries into a *pandas* dataframe. So let's start by creating an empty dataframe.

```
In [7]: # define the dataframe columns
        column_names = ['Borough', 'Neighborhood', 'Latitude', 'Longitude']
        # instantiate the dataframe
        neighborhoods = pd.DataFrame(columns=column_names)
   Take a look at the empty dataframe to confirm that the columns are as intended.
In [8]: neighborhoods
Out[8]: Empty DataFrame
        Columns: [Borough, Neighborhood, Latitude, Longitude]
        Index: []
   Then let's loop through the data and fill the dataframe one row at a time.
In [9]: for data in neighborhoods_data:
            borough = neighborhood_name = data['properties']['borough']
            neighborhood_name = data['properties']['name']
            neighborhood_latlon = data['geometry']['coordinates']
            neighborhood_lat = neighborhood_latlon[1]
            neighborhood_lon = neighborhood_latlon[0]
            neighborhoods = neighborhoods.append({'Borough': borough,
                                                   'Neighborhood': neighborhood_name,
                                                   'Latitude': neighborhood_lat,
                                                   'Longitude': neighborhood_lon}, ignore_index=T
   Quickly examine the resulting dataframe.
In [10]: neighborhoods.head()
Out[10]: Borough Neighborhood Latitude Longitude
             Bronx Wakefield 40.894705 -73.847201
             Bronx Co-op City 40.874294 -73.829939
             Bronx Eastchester 40.887556 -73.827806
         2
                      Fieldston 40.895437 -73.905643
         3
             Bronx
             Bronx
                      Riverdale 40.890834 -73.912585
   And make sure that the dataset has all 5 boroughs and 306 neighborhoods.
In [11]: print('The dataframe has {} boroughs and {} neighborhoods.'.format(
                 len(neighborhoods['Borough'].unique()),
                 neighborhoods.shape[0]
             )
```

The dataframe has 5 boroughs and 306 neighborhoods.

)

Use geopy library to get the latitude and longitude values of New York City.

Create a map of New York with neighborhoods superimposed on top.

```
In [13]: # create map of New York using latitude and longitude values
         map_newyork = folium.Map(location=[latitude, longitude], zoom_start=10)
         # add markers to map
         for lat, lng, borough, neighborhood in zip(neighborhoods['Latitude'], neighborhoods['Lo
             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_newyork)
         map_newyork
Out[13]: <folium.folium.Map at 0x7f38e29f59b0>
```

Folium is a great visualization library. Feel free to zoom into the above map, and click on each circle mark to reveal the name of the neighborhood and its respective borough.

However, for illustration purposes, let's simplify the above map and segment and cluster only the neighborhoods in Manhattan. So let's slice the original dataframe and create a new dataframe of the Manhattan data.

```
      Out[14]:
      Borough
      Neighborhood
      Latitude
      Longitude

      0
      Manhattan
      Marble Hill
      40.876551
      -73.910660

      1
      Manhattan
      Chinatown
      40.715618
      -73.994279

      2
      Manhattan
      Washington Heights
      40.851903
      -73.936900

      3
      Manhattan
      Inwood
      40.867684
      -73.921210

      4
      Manhattan
      Hamilton Heights
      40.823604
      -73.949688
```

Let's get the geographical coordinates of Manhattan.

```
In [15]: address = 'Manhattan, NY'
         geolocator = Nominatim()
         location = geolocator.geocode(address)
         latitude = location.latitude
         longitude = location.longitude
         print('The geograpical coordinate of Manhattan are {}, {}.'.format(latitude, longitude)
/home/jupyterlab/conda/lib/python3.6/site-packages/ipykernel_launcher.py:3: DeprecationWarning:
  This is separate from the ipykernel package so we can avoid doing imports until
The geograpical coordinate of Manhattan are 40.7900869, -73.9598295.
   As we did with all of New York City, let's visualizat Manhattan the neighborhoods in it.
In [16]: # create map of Manhattan using latitude and longitude values
         map_manhattan = folium.Map(location=[latitude, longitude], zoom_start=11)
         # add markers to map
         for lat, lng, label in zip(manhattan_data['Latitude'], manhattan_data['Longitude'], manhattan_data['Longitude'],
             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,
```

Out[16]: <folium.folium.Map at 0x7f38e1fe8c88>

map_manhattan

Next, we are going to start utilizing the Foursquare API to explore the neighborhoods and segment them.

parse_html=False).add_to(map_manhattan)

Define Foursquare Credentials and Version

Let's explore the first neighborhood in our dataframe. Get the neighborhood's name.

```
In [18]: manhattan_data.loc[0, 'Neighborhood']
Out[18]: 'Marble Hill'
```

Get the neighborhood's latitude and longitude values.

Latitude and longitude values of Marble Hill are 40.87655077879964, -73.91065965862981.

Now, let's get the top 100 venues that are in Marble Hill within a radius of 500 meters. First, let's create the GET request URL. Name your URL url.

Out[20]: 'https://api.foursquare.com/v2/venues/explore?&client_id=AUDP4MRVSHCP2RDWBPDWJSOSBUFMHC

Double-click **here** for the solution.

Send the GET request and examine the resutls

```
In [23]: results = requests.get(url).json()
```

From the Foursquare lab in the previous module, 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 lab.

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

```
In [25]: 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.locat
                              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(".")[-1] for col in nearby_venues.columns]
                              nearby_venues.head()
Out [25]:
                                                                           name categories
                                                                                                                                                               lat
                                                             Arturo's Pizza Place 40.874412 -73.910271
                              0
                                                  Bikram Yoga Yoga Studio 40.876844 -73.906204
                              1
                              2
                                           Tibbett Diner
                                                                                                                   Diner 40.880404 -73.908937
                                                          Starbucks Coffee Shop 40.877531 -73.905582
                              3
                              4 Dunkin' Donuts Donut Shop 40.876993 -73.906507
          And how many venues were returned by Foursquare?
```

23 venues were returned by Foursquare.

In [26]: print('{} venues were returned by Foursquare.'.format(nearby_venues.shape[0]))

0.4 2. Explore Neighborhoods in Manhattan

Let's create a function to repeat the same process to all the neighborhoods in Manhattan

```
In [27]: def getNearbyVenues(names, latitudes, longitudes, radius=500, LIMIT=100):
             venues_list=[]
             for name, lat, lng in zip(names, latitudes, longitudes):
                 print(name)
                 # create the API request URL
                 url = 'https://api.foursquare.com/v2/venues/explore?&client_id={}&client_secret
                     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_
             nearby_venues.columns = ['Neighborhood',
                            'Neighborhood Latitude',
                            'Neighborhood Longitude',
                            'Venue',
                            'Venue Latitude',
                            'Venue Longitude',
                            'Venue Category']
             return(nearby_venues)
```

Now write the code to run the above function on each neighborhood and create a new dataframe called manhattan_venues.

```
latitudes=manhattan_data['Latitude'],
longitudes=manhattan_data['Longitude'])
```

Marble Hill Chinatown Washington Heights Inwood Hamilton Heights Manhattanville Central Harlem East Harlem Upper East Side Yorkville Lenox Hill Roosevelt Island Upper West Side Lincoln Square Clinton Midtown Murray Hill Chelsea Greenwich Village East Village Lower East Side Tribeca Little Italy Soho West Village Manhattan Valley Morningside Heights Gramercy Battery Park City Financial District Carnegie Hill Noho Civic Center Midtown South Sutton Place Turtle Bay Tudor City Stuyvesant Town Flatiron

Double-click **here** for the solution.

Hudson Yards

Let's check the size of the resulting dataframe

```
In [29]: print(manhattan_venues.shape)
         manhattan_venues.head()
(3301, 7)
Out[29]:
          Neighborhood Neighborhood Latitude Neighborhood Longitude
                                                                                 Venue \
         0 Marble Hill
                                     40.876551
                                                             -73.91066
                                                                              Arturo's
         1 Marble Hill
                                     40.876551
                                                             -73.91066
                                                                           Bikram Yoga
         2 Marble Hill
                                     40.876551
                                                             -73.91066
                                                                         Tibbett Diner
         3 Marble Hill
                                                                             Starbucks
                                     40.876551
                                                             -73.91066
         4 Marble Hill
                                     40.876551
                                                             -73.91066 Dunkin' Donuts
            Venue Latitude Venue Longitude Venue Category
         0
                 40.874412
                                 -73.910271
                                               Pizza Place
         1
                 40.876844
                                 -73.906204
                                               Yoga Studio
         2
                 40.880404
                                 -73.908937
                                                     Diner
         3
                 40.877531
                                 -73.905582
                                               Coffee Shop
         4
                 40.876993
                                 -73.906507
                                                Donut Shop
```

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

In [30]: manhattan_venues.groupby('Neighborhood').count()

Out[30]:	Neighbo	rhood Latitude	Neighborhood L	ongitude	Venue	\
Neighborho	ood					
Battery Pa	ark City	100		100	100	
Carnegie H	Hill	100		100	100	
Central Ha	arlem	43		43	43	
Chelsea		100		100	100	
Chinatown		100		100	100	
Civic Cent	ter	100		100	100	
Clinton		100		100	100	
East Harle	em	44		44	44	
East Villa	age	100		100	100	
Financial	District	100		100	100	
Flatiron		100		100	100	
${\tt Gramercy}$		100		100	100	
Greenwich	Village	100		100	100	
Hamilton H	Heights	58		58	58	
Hudson Yar	rds	61		61	61	
${\tt Inwood}$		56		56	56	
Lenox Hill	1	100		100	100	
Lincoln Sc	quare	100		100	100	
Little Ita	aly	100		100	100	
Lower East	t Side	59		59	59	
Manhattan	Valley	62		62	62	

Manhattanville	39	39	39
Marble Hill	23	23	23
Midtown	100	100	100
Midtown South	100	100	100
Morningside Heights	45	45	45
Murray Hill	100	100	100
Noho	100	100	100
Roosevelt Island	26	26	26
Soho	100	100	100
Stuyvesant Town	17	17	17
Sutton Place	100	100	100
Tribeca	100	100	100
Tudor City	80	80	80
Turtle Bay	100	100	100
Upper East Side	100	100	100
Upper West Side	100	100	100
Washington Heights	88	88	88
West Village	100	100	100
Yorkville	100	100	100

	Venue Latitude	Venue Longitude	Venue Category
Neighborhood			
Battery Park City	100	100	100
Carnegie Hill	100	100	100
Central Harlem	43	43	43
Chelsea	100	100	100
Chinatown	100	100	100
Civic Center	100	100	100
Clinton	100	100	100
East Harlem	44	44	44
East Village	100	100	100
Financial District	100	100	100
Flatiron	100	100	100
Gramercy	100	100	100
Greenwich Village	100	100	100
Hamilton Heights	58	58	58
Hudson Yards	61	61	61
Inwood	56	56	56
Lenox Hill	100	100	100
Lincoln Square	100	100	100
Little Italy	100	100	100
Lower East Side	59	59	59
Manhattan Valley	62	62	62
Manhattanville	39	39	39
Marble Hill	23	23	23
Midtown	100	100	100
Midtown South	100	100	100
Morningside Heights	45	45	45

Murray Hill	100	100	100
Noho	100	100	100
Roosevelt Island	26	26	26
Soho	100	100	100
Stuyvesant Town	17	17	17
Sutton Place	100	100	100
Tribeca	100	100	100
Tudor City	80	80	80
Turtle Bay	100	100	100
Upper East Side	100	100	100
Upper West Side	100	100	100
Washington Heights	88	88	88
West Village	100	100	100
Yorkville	100	100	100

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

In [31]: print('There are {} uniques categories.'.format(len(manhattan_venues['Venue Category'].
There are 327 uniques categories.

0.5 3. Analyze Each Neighborhood

In [32]: # one hot encoding

```
manhattan_onehot = pd.get_dummies(manhattan_venues[['Venue Category']], prefix="", pref
         # add neighborhood column back to dataframe
         manhattan_onehot['Neighborhood'] = manhattan_venues['Neighborhood']
         # move neighborhood column to the first column
         fixed_columns = [manhattan_onehot.columns[-1]] + list(manhattan_onehot.columns[:-1])
         manhattan_onehot = manhattan_onehot[fixed_columns]
         manhattan_onehot.head()
Out[32]:
          Neighborhood Accessories Store Adult Boutique Afghan Restaurant
         0 Marble Hill
                                         0
                                                         0
                                                                             0
         1 Marble Hill
                                         0
                                                         0
                                                                             0
         2 Marble Hill
                                         0
                                                         0
                                                                             0
         3 Marble Hill
                                         0
                                                         0
                                                                             0
         4 Marble Hill
            African Restaurant American Restaurant Animal Shelter Antique Shop
         0
                             0
                                                  0
                                                                  0
         1
                             0
                                                  0
                                                                  0
                                                                                 0
         2
                             0
                                                  0
                                                                  0
                                                                                 0
         3
                             0
                                                                                 0
                                                  0
                                                                  0
```

```
0
                                             0
4
                                                              0
                                                                              0
          Arepa Restaurant Argentinian Restaurant
                                                         Art Gallery
   Arcade
                                                                       Art Museum
0
                                                       0
        0
                            0
                                                       0
                                                                     0
                                                                                  0
1
2
                                                       0
                                                                                  0
        0
                            0
                                                                     0
3
                            0
                                                       0
                                                                                  0
        0
4
                                                                                  0
        0
                                                       0
                                             Athletics & Sports
   Arts & Crafts Store Asian Restaurant
                                                                    Auditorium
0
                       0
                                           0
                                                                 0
1
                       0
                                           0
                                                                 0
                                                                              0
2
                       0
                                           0
                                                                 0
                                                                              0
3
                       0
                                                                 0
                                                                              0
4
                                                                              0
   Australian Restaurant
                            Austrian Restaurant
                                                   Auto Workshop
                                                                    BBQ Joint
0
                                                                 0
                         0
1
                         0
                                                0
                                                                 0
                                                                             0
2
                         0
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                                                                 0
                                                                             0
3
                         0
                                                0
                                                                 0
                                                                             0
4
                         0
                                                0
                                                                 0
                                                                             0
   Baby Store Bagel Shop
                             Bakery Bank Bar Baseball Field
0
             0
                          0
                                   0
                                         0
                                               0
                                                                 0
1
             0
                          0
                                   0
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2
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                                                                 0
3
             0
                          0
                                   0
                                         0
                                               0
                                                                 0
4
             0
                          0
                                   0
                                         0
                                                                 0
   Basketball Court Bed & Breakfast
                                         Beer Bar
                                                    Beer Garden Beer Store
0
                   0
                                      0
                                                 0
                                                                0
                                                                             0
1
                   0
                                      0
                                                 0
                                                                0
                                                                             0
2
                   0
                                      0
                                                 0
                                                                0
                                                                             0
3
                   0
                                      0
                                                 0
                                                                0
                                                                             0
4
                   0
                                      0
                                                                             0
                                                 0
   Belgian Restaurant Bike Rental / Bike Share
                                                    Bike Shop Bike Trail
0
                                                                            0
1
                      0
                                                  0
                                                              0
                                                                            0
2
                      0
                                                  0
                                                              0
                                                                            0
3
                      0
                                                  0
                                                                            0
                                                              0
4
                      0
                                                              0
   Bistro Board Shop Boat or Ferry Bookstore
                                                     Boutique Boxing Gym \
0
        0
                      0
                                      0
                                                  0
1
        0
                      0
                                      0
                                                             0
                                                                           0
2
                      0
                                                  0
```

```
3
        0
                     0
                                     0
                                                 0
                                                            0
                                                                         0
        0
                     0
                                                                         0
   Brazilian Restaurant Breakfast Spot Bridal Shop Bubble Tea Shop \
0
                       0
                                        0
                                                      0
1
                       0
                                        0
                                                                         0
2
                                                                         0
                       0
                                        0
3
                                        0
                                                                         0
4
   Building Burger Joint
                            Burrito Place Bus Line Bus Station
0
                         0
                                                    0
                         0
                                                                  0
1
          0
                                          0
                                                    0
2
                                          0
                                                                  0
                         0
3
                                                                  0
                         0
                                          0
4
                                          0
   Business Service Butcher Cafeteria Café Cambodian Restaurant
0
                                        0
                                               0
                   0
                             0
                                        0
                                               0
                                                                      0
1
2
                   0
                             0
                                               0
                                                                      0
                                        0
3
                   0
                                        0
                                                                      0
   Camera Store Candy Store Caribbean Restaurant
                                                       Caucasian Restaurant
0
                             0
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               0
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               0
                             0
                                                    0
                                                                            0
1
2
                             0
                                                    0
                                                                            0
3
                             0
                                                    0
                                                                            0
4
   Cheese Shop Chinese Restaurant
                                                                           Church \
                                      Chocolate Shop
                                                       Christmas Market
0
                                                                                0
1
              0
                                   0
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   Climbing Gym Clothing Store Club House Cocktail Bar
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   College Academic Building College Bookstore College Cafeteria \
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   College Theater Comedy Club Community Center
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   Convenience Store
                       Cosmetics Shop
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   Cuban Restaurant Cultural Center Cupcake Shop Cycle Studio
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                      Dance Studio Daycare
                                               Deli / Bodega Department Store
   Czech Restaurant
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   Design Studio
                   Dessert Shop
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             Dog Run
                       Donut Shop
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   Dive Bar
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   Duty-free Shop Eastern European Restaurant Electronics Store
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   English Restaurant Ethiopian Restaurant Event Space Exhibit
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   Falafel Restaurant
                        Farmers Market Fast Food Restaurant
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   Filipino Restaurant Fish Market Flea Market Flower Shop
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                                  Food Truck Fountain French Restaurant
   Food & Drink Shop Food Court
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   Fried Chicken Joint Frozen Yogurt Shop Furniture / Home Store
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   Gaming Cafe Garden Garden Center Gas Station Gastropub
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General College & University General Entertainment German Restaurant \

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              Golf Course
                             Gourmet Shop Greek Restaurant
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   Gym / Fitness Center Gym Pool Gymnastics Gym Harbor / Marina \
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                                           Health & Beauty Service
   Hardware Store Hawaiian Restaurant
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   Health Food Store Heliport High School
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   Hobby Shop
               Hookah Bar Hostel Hot Dog Joint Hotel Hotel Bar \
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                       Ice Cream Shop Indian Restaurant
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   Hotpot Restaurant
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Indie Theater Irish Pub Israeli Restaurant Italian Restaurant
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   Japanese Curry Restaurant
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   Jewish Restaurant
                       Juice Bar Karaoke Bar Kids Store Korean Restaurant
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   Kosher Restaurant Latin American Restaurant Laundry Service
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   Lebanese Restaurant Library Lingerie Store Liquor Store
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   Malay Restaurant Market Martial Arts Dojo Massage Studio
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   Medical Center Mediterranean Restaurant
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Metro Station Mexican Restaurant Middle Eastern Restaurant
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   Miscellaneous Shop Mobile Phone Shop Modern European Restaurant
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   Molecular Gastronomy Restaurant Monument / Landmark Moroccan Restaurant
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   Movie Theater Museum Music School Music Venue Nail Salon \
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   New American Restaurant Newsstand Nightclub Non-Profit Noodle House
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                         Optical Shop Organic Grocery Other Nightlife
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   Outdoor Sculpture Outdoors & Recreation Paella Restaurant
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   Pakistani Restaurant Paper / Office Supplies Store Park \
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   Performing Arts Venue Persian Restaurant Peruvian Restaurant Pet Café
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   Pet Service Pet Store Pharmacy Piano Bar
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   Pilates Studio Pizza Place Playground Plaza Poke Place Pool
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   Portuguese Restaurant Pub Public Art Ramen Restaurant Record Shop
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   Recreation Center Rental Car Location
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   Residential Building (Apartment / Condo)
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   Rock Climbing Spot
                       Rock Club Roof Deck Russian Restaurant
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   Salad Place Salon / Barbershop Sandwich Place Scenic Lookout School
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   Sculpture Garden Seafood Restaurant Shanghai Restaurant
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   Shoe Repair Shoe Store Shopping Mall Skate Park Skating Rink
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   Smoke Shop Snack Place Soba Restaurant Social Club Soup Place \setminus
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   South American Restaurant South Indian Restaurant
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                                       Spa Spanish Restaurant Speakeasy \
   Southern / Soul Food Restaurant
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   Spiritual Center Sporting Goods Shop
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                             Supermarket Supplement Shop
                Strip Club
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   Street Art
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                     Szechuan Restaurant Taco Place
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   Swiss Restaurant
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                           Tapas Restaurant
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   Taiwanese Restaurant
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   Tech Startup
                  Tennis Court
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   Theme Park Ride / Attraction Thrift / Vintage Store Tibetan Restaurant
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   Tiki Bar Tourist Information Center Toy / Game Store
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   Turkish Restaurant
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   Vegetarian / Vegan Restaurant
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   Video Game Store Video Store
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   Watch Shop
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               Wings Joint
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And let's examine the new dataframe size.

In [33]: manhattan_onehot.shape

Out[33]: (3301, 328)

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

Out[34]:	<u>~</u>	Accessories Store	_	Afghan Restaurant \
0	Battery Park City	0.000000	0.00	0.00
1	Carnegie Hill	0.000000	0.00	0.00
2	Central Harlem	0.000000	0.00	0.00
3	Chelsea	0.000000	0.00	0.00
4	Chinatown	0.000000	0.00	0.00
5	Civic Center	0.000000	0.00	0.00
6	Clinton	0.000000	0.00	0.00
7	East Harlem	0.000000	0.00	0.00
8	East Village	0.000000	0.00	0.00
9	Financial District	0.010000	0.00	0.00
10	Flatiron	0.000000	0.00	0.00
11	Gramercy	0.000000	0.00	0.00
12	Greenwich Village	0.000000	0.00	0.00
13	Hamilton Heights	0.000000	0.00	0.00
14	Hudson Yards	0.000000	0.00	0.00
15	Inwood	0.000000	0.00	0.00
16	Lenox Hill	0.000000	0.00	0.01
17	Lincoln Square	0.010000	0.00	0.00
18	Little Italy	0.000000	0.00	0.00
19	Lower East Side	0.000000	0.00	0.00
20	Manhattan Valley	0.000000	0.00	0.00
21	Manhattanville	0.000000	0.00	0.00
22	Marble Hill	0.000000	0.00	0.00
23	Midtown	0.000000	0.00	0.00
24	Midtown South	0.000000	0.00	0.00
25	Morningside Heights	0.000000	0.00	0.00
26	Murray Hill	0.000000	0.00	0.00
27	Noho	0.000000	0.01	0.00
28	Roosevelt Island	0.000000	0.00	0.00
29	Soho	0.000000	0.00	0.00
30	Stuyvesant Town	0.000000	0.00	0.00
31	Sutton Place	0.000000	0.01	0.00
32	Tribeca	0.000000	0.00	0.00
33	Tudor City	0.000000	0.00	0.00
34	Turtle Bay	0.000000	0.00	0.00
35	Upper East Side	0.000000	0.00	0.00
36	Upper West Side	0.010000	0.00	0.00
37	Washington Heights	0.011364	0.00	0.00
38	West Village	0.010000	0.00	0.00
39	Yorkville	0.000000	0.00	0.00
	A.C. ' D.	Α		4 · · · · · · · · · · · · · · · · · · ·
•	African Restaurant	American Restaurant	Animal Shelter	Antique Shop \
0	0.000000	0.010000	0.00	0.00
1	0.000000	0.010000	0.00	0.00

2		0.069767	0.046512	0.00	0.00	
3		0.000000	0.030000	0.00	0.01	
4		0.000000	0.040000	0.00	0.00	
5		0.000000	0.020000	0.00	0.01	
6		0.000000	0.040000	0.00	0.00	
7		0.00000	0.00000	0.00	0.00	
8		0.00000	0.020000	0.00	0.01	
9		0.00000	0.020000	0.00	0.00	
10		0.00000	0.040000	0.00	0.00	
11		0.00000	0.030000	0.00	0.00	
12		0.000000	0.020000	0.00	0.00	
13		0.000000	0.000000	0.00	0.00	
14		0.000000	0.049180	0.00	0.00	
15		0.000000	0.035714	0.00	0.00	
16		0.000000	0.00000	0.00	0.00	
17		0.000000	0.020000	0.00	0.00	
18		0.000000	0.010000	0.00	0.00	
19		0.000000	0.00000	0.00	0.00	
20		0.000000	0.000000	0.00	0.00	
21		0.000000	0.025641	0.00	0.00	
22		0.000000	0.023041	0.00	0.00	
23						
		0.000000	0.030000	0.00	0.00	
24		0.000000	0.020000	0.00	0.00	
25 26		0.000000	0.066667	0.00	0.00	
26		0.000000	0.020000	0.00	0.00	
27		0.000000	0.030000	0.00	0.00	
28		0.000000	0.000000	0.00	0.00	
29		0.000000	0.020000	0.00	0.00	
30		0.000000	0.000000	0.00	0.00	
31		0.000000	0.030000	0.00	0.00	
32		0.000000	0.060000	0.00	0.00	
33		0.000000	0.012500	0.00	0.00	
34		0.00000	0.020000	0.00	0.00	
35		0.000000	0.020000	0.00	0.00	
36		0.000000	0.020000	0.00	0.00	
37		0.000000	0.011364	0.00	0.00	
38		0.000000	0.030000	0.00	0.00	
39		0.000000	0.000000	0.00	0.00	
	Arcade	Arepa Restaurant	Argentinian Restaurant	•	Art Museum	\
0	0.00	0.000000	0.000000		0.00	
1	0.00	0.000000	0.010000	0.000000	0.02	
2	0.00	0.000000	0.000000	0.046512	0.00	
3	0.00	0.000000	0.000000		0.00	
4	0.00	0.000000	0.000000		0.00	
5	0.00	0.000000	0.000000		0.01	
6	0.00	0.000000	0.000000		0.00	
7	0.00	0.000000	0.000000	0.000000	0.00	

8	0.00	0.02	0000		0.010000	0.000	000	0	.00
9	0.00	0.00	0000		0.000000	0.000	000		.00
10	0.00	0.00	0000		0.000000	0.000	000	0	.00
11	0.01	0.00	0000		0.000000	0.010	000	0	.00
12	0.00	0.00	0000		0.000000	0.010	000	0	.00
13	0.00	0.00	0000		0.00000	0.000	000	0	.00
14	0.00	0.00	0000		0.000000	0.032	787	0	.00
15	0.00	0.00	0000		0.000000	0.000	000	0	.00
16	0.00	0.00	0000		0.00000	0.020	000	0	.00
17	0.00	0.00	0000		0.000000	0.010	000	0	.00
18	0.00	0.00	0000		0.000000	0.010	000	0	.00
19	0.00	0.00	0000		0.016949	0.033	898	0	.00
20	0.00	0.00	0000		0.000000	0.000	000	0	.00
21	0.00	0.00	0000		0.000000	0.025	641	0	.00
22	0.00	0.00	0000		0.000000	0.000	000	0	.00
23	0.00	0.00	0000		0.000000	0.010	000	0	.00
24	0.00	0.00			0.000000	0.000			.00
25	0.00	0.00	0000		0.000000	0.000	000	0	.00
26	0.00	0.00	0000		0.000000	0.000	000	0	.00
27	0.00	0.00			0.000000	0.020	000		.00
28	0.00	0.00			0.000000	0.000			.00
29	0.00	0.00			0.000000	0.030			.01
30	0.00	0.00			0.000000	0.000			.00
31	0.00	0.00			0.000000	0.000			.00
32	0.00	0.00			0.010000	0.020			.00
33	0.00	0.00			0.000000	0.000			.00
34	0.00	0.00			0.000000	0.000			.00
35	0.00	0.00			0.000000	0.050			.01
36	0.00	0.00			0.000000	0.000			.00
37	0.00	0.01			0.000000	0.000			.00
38	0.00	0.00			0.000000	0.010			.00
39	0.00	0.00			0.000000	0.000			.00
00	0.00	0.00	0000		0.00000	0.000	000	·	
	Arts & Cra	afts Store	Asian	Restaurant	Athletics 8	& Sports	Audit	orium	\
0		0.000000		0.000000		0.01		0.01	`
1		0.000000		0.000000		0.00		0.00	
2		0.000000		0.000000		0.00		0.00	
3		0.000000		0.020000		0.00		0.00	
4		0.000000		0.020000		0.00		0.00	
5		0.000000		0.010000		0.00		0.00	
6		0.000000		0.000000		0.00		0.00	
7		0.000000		0.000000		0.00		0.00	
8		0.000000		0.000000		0.00		0.00	
9		0.000000		0.010000		0.00		0.00	
10		0.000000		0.000000		0.00		0.00	
11		0.000000		0.000000		0.00		0.00	
12		0.000000		0.000000		0.00		0.00	
13		0.000000		0.000000		0.00		0.00	
13		0.00000		0.000000		0.00		0.00	

14	0.00000	0.00000	0.00	0.00
15	0.00000	0.00000	0.00	0.00
16	0.00000	0.00000	0.00	0.00
17	0.00000	0.00000	0.01	0.00
18	0.00000	0.010000	0.00	0.00
19	0.000000	0.00000	0.00	0.00
20	0.016129	0.00000	0.00	0.00
21	0.000000	0.025641	0.00	0.00
22	0.000000	0.00000	0.00	0.00
23	0.000000	0.000000	0.00	0.00
24	0.000000	0.000000	0.00	0.00
25	0.000000	0.000000	0.00	0.00
26	0.000000	0.000000	0.00	0.00
27	0.000000	0.010000	0.00	0.00
28	0.000000	0.00000	0.00	0.00
29	0.010000	0.000000	0.00	0.00
30	0.00000	0.000000	0.00	0.00
31	0.000000	0.000000	0.00	0.00
32	0.000000	0.000000	0.00	0.00
32 33	0.000000	0.025000	0.00	0.00
34	0.000000	0.010000	0.00	0.00
35	0.000000	0.000000	0.00	0.00
36	0.010000	0.010000	0.00	0.00
37	0.00000	0.00000	0.00	0.00
	0 000000	0 000000		
38	0.000000	0.000000	0.00	0.00
	0.000000 0.000000	0.000000 0.010000		
38			0.00	0.00
38	0.00000	0.010000	0.00 0.01	0.00
38 39	0.000000 Australian Restaurant	0.010000 Austrian Restaurant	0.00 0.01 Auto Workshop	0.00 0.00 BBQ Joint \
38 39 0	0.000000 Australian Restaurant 0.00	0.010000 Austrian Restaurant 0.00	0.00 0.01 Auto Workshop 0.000000	0.00 0.00 BBQ Joint \ 0.020000
38 39 0 1	0.000000 Australian Restaurant 0.00 0.00	0.010000 Austrian Restaurant 0.00 0.00	0.00 0.01 Auto Workshop 0.000000 0.000000	0.00 0.00 BBQ Joint \ 0.020000 0.000000
38 39 0 1 2	0.000000 Australian Restaurant 0.00 0.00 0.00	0.010000 Austrian Restaurant 0.00 0.00 0.00	0.00 0.01 Auto Workshop 0.000000 0.000000	0.00 0.00 BBQ Joint \ 0.020000 0.000000 0.023256
38 39 0 1 2 3	0.000000 Australian Restaurant	0.010000 Austrian Restaurant	0.00 0.01 Auto Workshop 0.000000 0.000000 0.000000	0.00 0.00 BBQ Joint \ 0.020000 0.000000 0.023256 0.000000
38 39 0 1 2 3 4	0.000000 Australian Restaurant 0.00 0.00 0.00 0.00 0.00	0.010000 Austrian Restaurant 0.00 0.00 0.00 0.00 0.00	0.00 0.01 Auto Workshop 0.000000 0.000000 0.000000 0.000000	0.00 0.00 BBQ Joint \ 0.020000 0.000000 0.023256 0.000000 0.000000
38 39 0 1 2 3 4 5	0.000000 Australian Restaurant 0.00 0.00 0.00 0.00 0.00 0.00	0.010000 Austrian Restaurant 0.00 0.00 0.00 0.00 0.01 0.00	0.00 0.01 Auto Workshop 0.000000 0.000000 0.000000 0.000000 0.000000	0.00 0.00 BBQ Joint \ 0.020000 0.000000 0.023256 0.000000 0.000000
38 39 0 1 2 3 4 5 6	0.000000 Australian Restaurant 0.00 0.00 0.00 0.00 0.00 0.01 0.00	0.010000 Austrian Restaurant 0.00 0.00 0.00 0.00 0.01 0.00 0.00	0.00 0.01 Auto Workshop 0.000000 0.000000 0.000000 0.000000 0.000000	0.00 0.00 BBQ Joint \ 0.020000 0.000000 0.023256 0.000000 0.000000 0.000000
38 39 0 1 2 3 4 5 6 7	0.000000 Australian Restaurant 0.00 0.00 0.00 0.00 0.00 0.01 0.00 0.00	0.010000 Austrian Restaurant 0.00 0.00 0.00 0.00 0.01 0.00 0.00 0.0	0.00 0.01 Auto Workshop 0.000000 0.000000 0.000000 0.000000 0.000000	0.00 0.00 BBQ Joint \ 0.020000 0.000000 0.023256 0.000000 0.000000 0.000000 0.000000
38 39 0 1 2 3 4 5 6 7 8	0.000000 Australian Restaurant 0.00 0.00 0.00 0.00 0.00 0.01 0.00 0.00 0.00	0.010000 Austrian Restaurant 0.00 0.00 0.00 0.00 0.01 0.00 0.00 0.0	0.00 0.01 Auto Workshop 0.000000 0.000000 0.000000 0.000000 0.000000	0.00 0.00 BBQ Joint \ 0.020000 0.000000 0.023256 0.000000 0.000000 0.000000 0.000000 0.000000
38 39 0 1 2 3 4 5 6 7 8 9	0.000000 Australian Restaurant 0.00 0.00 0.00 0.00 0.00 0.01 0.00 0.00 0.00 0.00	0.010000 Austrian Restaurant 0.00 0.00 0.00 0.00 0.01 0.00 0.00 0.0	0.00 0.01 Auto Workshop 0.000000 0.000000 0.000000 0.000000 0.000000	0.00 0.00 BBQ Joint \ 0.020000 0.000000 0.023256 0.000000 0.000000 0.000000 0.000000 0.000000
38 39 0 1 2 3 4 5 6 7 8 9 10	0.000000 Australian Restaurant 0.00 0.00 0.00 0.00 0.00 0.01 0.00 0.00 0.00 0.00 0.00	0.010000 Austrian Restaurant 0.00 0.00 0.00 0.00 0.01 0.00 0.00 0.0	0.00 0.01 Auto Workshop 0.000000 0.000000 0.000000 0.000000 0.000000	0.00 0.00 BBQ Joint \ 0.020000 0.000000 0.023256 0.000000 0.000000 0.000000 0.000000 0.000000
38 39 0 1 2 3 4 5 6 7 8 9 10 11	0.000000 Australian Restaurant 0.00 0.00 0.00 0.00 0.00 0.01 0.00 0.00 0.00 0.00 0.00 0.00	0.010000 Austrian Restaurant 0.00 0.00 0.00 0.00 0.01 0.00 0.00 0.0	0.00 0.01 Auto Workshop 0.000000 0.000000 0.000000 0.000000 0.000000	0.00 0.00 BBQ Joint \ 0.020000 0.000000 0.023256 0.000000 0.000000 0.000000 0.000000 0.000000
38 39 0 1 2 3 4 5 6 7 8 9 10 11 12	0.000000 Australian Restaurant 0.00 0.00 0.00 0.00 0.01 0.00 0.00 0.0	0.010000 Austrian Restaurant 0.00 0.00 0.00 0.00 0.01 0.00 0.00 0.0	0.00 0.01 Auto Workshop 0.000000 0.000000 0.000000 0.000000 0.000000	0.00 0.00 BBQ Joint \ 0.020000 0.000000 0.023256 0.000000 0.000000 0.000000 0.000000 0.000000
38 39 0 1 2 3 4 5 6 7 8 9 10 11 12 13	0.000000 Australian Restaurant 0.00 0.00 0.00 0.00 0.00 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.010000 Austrian Restaurant 0.00 0.00 0.00 0.00 0.01 0.00 0.00 0.0	0.00 0.01 Auto Workshop 0.000000 0.000000 0.000000 0.000000 0.000000	0.00 0.00 BBQ Joint \ 0.020000 0.000000 0.023256 0.000000 0.000000 0.000000 0.000000 0.000000
38 39 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14	0.000000 Australian Restaurant 0.00 0.00 0.00 0.00 0.00 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.010000 Austrian Restaurant 0.00 0.00 0.00 0.00 0.01 0.00 0.00 0.0	0.00 0.01 Auto Workshop 0.000000 0.000000 0.000000 0.000000 0.000000	0.00 0.00 BBQ Joint \ 0.020000 0.000000 0.0023256 0.000000 0.000000 0.000000 0.000000 0.000000
38 39 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	0.000000 Australian Restaurant 0.00 0.00 0.00 0.00 0.01 0.00 0.00 0.	0.010000 Austrian Restaurant 0.00 0.00 0.00 0.00 0.01 0.00 0.00 0.0	0.00 0.01 Auto Workshop 0.000000 0.000000 0.000000 0.000000 0.000000	0.00 0.00 BBQ Joint \ 0.020000 0.000000 0.023256 0.000000 0.000000 0.000000 0.000000 0.000000
38 39 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	0.000000 Australian Restaurant 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.010000 Austrian Restaurant 0.00 0.00 0.00 0.00 0.01 0.00 0.00 0.0	0.00 0.01 Auto Workshop 0.000000 0.000000 0.000000 0.000000 0.000000	0.00 0.00 BBQ Joint \ 0.020000 0.000000 0.0023256 0.000000 0.000000 0.000000 0.000000 0.000000
38 39 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	0.000000 Australian Restaurant 0.00 0.00 0.00 0.00 0.00 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.010000 Austrian Restaurant 0.00 0.00 0.00 0.00 0.01 0.00 0.00 0.0	0.00 0.01 Auto Workshop 0.000000 0.000000 0.000000 0.000000 0.000000	0.00 0.00 BBQ Joint \ 0.020000 0.000000 0.000000 0.000000 0.000000

20		0.00		0.00	0.000000	0.000000	
21		0.00		0.00	0.000000	0.025641	
22		0.00		0.00	0.000000	0.000000	
23		0.00		0.00	0.000000	0.000000	
24		0.00		0.00	0.000000	0.000000	
25		0.00		0.00	0.000000	0.000000	
26		0.00		0.00	0.000000	0.000000	
27		0.00		0.00	0.000000	0.000000	
28		0.00		0.00	0.000000	0.000000	
29		0.00		0.00	0.000000	0.000000	
30		0.00		0.00	0.000000	0.000000	
31		0.00		0.00	0.000000	0.000000	
32		0.00		0.00	0.000000	0.000000	
33		0.00		0.00	0.000000	0.000000	
34		0.00		0.00	0.000000	0.000000	
35		0.00		0.00	0.000000	0.000000	
36		0.01		0.00	0.000000	0.000000	
37		0.00		0.00	0.000000	0.000000	
38		0.00		0.01	0.000000	0.000000	
39		0.00		0.00	0.000000	0.000000	
	Baby Store	Bagel Shop	Bakery	Bank	Bar Base	ball Field	\
0	0.00	0.000000	0.010000	0.000000	0.000000	0.000000	
1	0.00	0.010000	0.020000	0.000000	0.030000	0.000000	
2	0.00	0.023256	0.000000	0.000000	0.023256	0.000000	
3	0.00	0.010000	0.040000	0.000000	0.010000	0.000000	
4	0.00	0.000000	0.030000	0.000000	0.020000	0.000000	
5	0.01	0.010000	0.050000	0.000000	0.010000	0.000000	
6	0.00	0.000000	0.010000	0.000000	0.010000	0.000000	
7	0.00	0.000000	0.090909	0.000000	0.000000	0.000000	
8	0.00	0.020000	0.010000	0.000000	0.060000	0.000000	
9	0.00	0.010000	0.000000	0.000000	0.040000	0.000000	
10	0.00	0.000000	0.030000	0.000000	0.000000	0.000000	
11	0.00	0.040000	0.000000	0.000000	0.020000	0.000000	
12	0.00	0.010000	0.020000	0.000000	0.010000	0.000000	
13	0.00	0.000000	0.034483	0.017241	0.017241	0.000000	
14	0.00	0.000000	0.000000	0.000000	0.016393	0.000000	
15	0.00	0.000000	0.035714	0.000000	0.017857	0.000000	
16	0.00	0.010000	0.020000	0.010000	0.010000	0.000000	
17	0.00	0.010000	0.020000	0.000000	0.010000	0.000000	
18	0.00	0.010000	0.070000	0.000000	0.000000	0.000000	
19	0.00	0.016949	0.033898	0.000000	0.000000	0.000000	
20	0.00	0.000000	0.016129	0.000000	0.048387	0.000000	
21	0.00	0.000000	0.000000	0.000000	0.025641	0.000000	
22	0.00	0.000000	0.000000	0.043478	0.000000	0.000000	
23	0.00	0.000000	0.030000	0.000000	0.010000	0.000000	
24	0.00	0.000000	0.030000	0.000000	0.000000	0.000000	
25	0.00	0.000000	0.000000	0.000000	0.000000	0.000000	

26	0.00 0.020000	0.020000	0.000000	0.030000	0.000000	
27	0.00 0.00000	0.010000	0.000000	0.000000	0.000000	
28	0.00 0.000000	0.000000	0.000000	0.000000	0.000000	
29	0.00 0.00000	0.020000	0.000000	0.000000	0.000000	
30	0.00 0.00000	0.000000	0.000000	0.235294	0.058824	
31	0.00 0.010000	0.030000	0.000000	0.020000	0.00000	
32	0.00 0.00000	0.020000	0.000000	0.000000	0.00000	
33	0.00 0.012500	0.000000	0.012500	0.000000	0.00000	
34	0.00 0.00000	0.010000	0.000000	0.020000	0.00000	
35	0.00 0.00000	0.040000	0.000000	0.010000	0.00000	
36	0.00 0.010000	0.030000	0.000000	0.040000	0.00000	
37	0.00 0.00000	0.045455	0.011364	0.011364	0.00000	
38	0.00 0.00000	0.030000	0.000000	0.000000	0.00000	
39	0.00 0.020000	0.020000	0.010000	0.060000	0.000000	
	Basketball Court Bed	& Breakfast	Beer Bar	Beer Garden	Beer Store	\
0	0.000000	0.00	0.000000	0.020000	0.00	`
1	0.000000	0.00	0.000000	0.000000	0.00	
2	0.000000	0.00	0.023256	0.000000	0.00	
3	0.000000	0.00	0.010000	0.000000	0.00	
4	0.000000	0.00	0.000000	0.000000	0.00	
5	0.000000	0.00	0.000000	0.000000	0.00	
6	0.00000	0.00	0.000000	0.000000	0.00	
7	0.000000	0.00	0.022727	0.000000	0.00	
8	0.00000	0.00	0.000000	0.000000	0.01	
9	0.00000	0.00	0.000000	0.000000	0.00	
10	0.00000	0.00	0.000000	0.000000	0.00	
11	0.00000	0.01	0.010000	0.000000	0.00	
12	0.00000	0.00	0.010000	0.000000	0.00	
13	0.00000	0.00	0.000000	0.000000	0.00	
14	0.00000	0.00	0.000000	0.000000	0.00	
15	0.00000	0.00	0.000000	0.000000	0.00	
16	0.00000	0.00	0.000000	0.000000	0.00	
17	0.00000	0.00	0.000000	0.000000	0.00	
18	0.00000	0.00	0.000000	0.000000	0.00	
19	0.00000	0.00	0.000000	0.000000	0.00	
20	0.00000	0.00	0.000000	0.000000	0.00	
21	0.00000	0.00	0.000000	0.025641	0.00	
22	0.00000	0.00	0.000000	0.000000	0.00	
23	0.00000	0.00	0.000000	0.000000	0.00	
24	0.00000	0.00	0.000000	0.000000	0.00	
25	0.00000	0.00	0.000000	0.000000	0.00	
26	0.00000	0.00	0.000000	0.000000	0.00	
27	0.000000	0.00	0.010000	0.000000	0.01	
28	0.000000	0.00	0.000000	0.000000	0.00	
29	0.000000	0.00	0.000000	0.000000	0.00	
30	0.058824	0.00	0.000000	0.000000	0.00	
31	0.000000	0.00	0.010000	0.020000	0.01	

32 33 34 35 36 37 38 39	0.010000 0.000000 0.000000 0.000000 0.000000	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.000000 0.000000 0.000000 0.000000 0.011364 0.010000 0.000000	0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000	0.00 0.00 0.00 0.00 0.01 0.00 0.00
	Belgian Restaurant	Bike Rental /	Bike Share	Bike Shop	Bike Trail \
0	0.00		0.00000	0.000000	0.000000
1	0.00		0.000000	0.000000	0.000000
2	0.00		0.000000	0.000000	0.000000
3	0.00		0.000000	0.000000	0.000000
4	0.00		0.000000	0.010000	0.000000
5	0.00		0.000000	0.000000	0.000000
6	0.00		0.000000	0.000000	0.000000
7	0.00		0.000000	0.000000	0.000000
8 9	0.00		0.000000	0.000000	0.000000
9 10	0.00		0.000000	0.000000	0.000000 0.000000
11	0.00		0.000000	0.000000	0.000000
12	0.00		0.000000	0.000000	0.000000
13	0.00		0.000000	0.000000	0.000000
14	0.00		0.000000	0.000000	0.000000
15	0.00		0.000000	0.000000	0.000000
16	0.00		0.000000	0.000000	0.000000
17	0.00		0.000000	0.000000	0.000000
18	0.00		0.000000	0.000000	0.000000
19	0.00		0.016949	0.000000	0.000000
20	0.00		0.000000	0.016129	0.000000
21	0.00		0.000000	0.000000	0.025641
22	0.00		0.00000	0.000000	0.000000
23	0.00		0.00000	0.000000	0.000000
24	0.00		0.000000	0.000000	0.000000
25	0.00		0.00000	0.000000	0.000000
26	0.00		0.00000	0.000000	0.000000
27	0.00		0.00000	0.000000	0.000000
28	0.00		0.000000	0.000000	0.000000
29	0.00		0.000000	0.000000	0.000000
30	0.00		0.000000	0.000000	0.000000
31	0.00		0.000000	0.000000	0.000000
32	0.00		0.010000	0.000000	0.000000
33	0.00		0.00000	0.000000	0.000000
34	0.00		0.000000	0.000000	0.000000
35	0.00		0.000000	0.000000	0.000000
36	0.00		0.000000	0.000000	0.000000
37	0.00		0.000000	0.000000	0.000000

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               Board Shop
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                            Boat or Ferry
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    Brazilian Restaurant
                            Breakfast Spot
                                              Bridal Shop
                                                            Bubble Tea Shop
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2		0.00	0.000000	0.00	0.000000
3		0.00	0.010000	0.00	0.000000
4		0.00	0.000000	0.00	0.020000
5		0.00	0.000000	0.00	0.010000
6		0.00	0.000000	0.00	0.000000
7		0.00	0.000000	0.00	0.000000
8		0.00	0.000000	0.00	0.000000
9		0.00	0.000000	0.00	0.000000
10		0.00	0.000000	0.00	0.000000
11		0.00	0.000000	0.00	0.010000
12		0.00	0.000000	0.00	0.000000
13		0.00	0.000000	0.00	0.000000
14		0.00	0.000000	0.00	
15		0.00	0.000000	0.00	0.000000
16		0.00	0.000000	0.00	0.000000
17		0.00	0.000000	0.00	0.000000
18		0.00	0.010000	0.00	0.030000
19		0.00	0.000000	0.00	0.016949
20		0.00	0.000000	0.00	0.016129
			0.000000		0.000000
21		0.00		0.00	
22		0.00	0.000000	0.00	0.000000
23		0.01	0.000000	0.00	0.000000
24		0.00	0.000000	0.00	0.000000
25		0.00	0.000000	0.00	0.000000
26		0.00	0.000000	0.00	0.000000
27		0.00	0.000000	0.00	0.000000
28		0.00	0.000000	0.00	0.000000
29		0.00	0.000000	0.00	0.000000
30		0.00	0.000000	0.00	0.000000
31		0.00	0.000000	0.00	0.000000
32		0.00	0.000000	0.01	0.000000
33		0.00	0.000000	0.00	0.000000
34		0.00	0.000000	0.00	0.000000
35		0.00	0.000000	0.01	0.000000
36		0.00	0.020000	0.00	0.000000
37		0.00	0.011364	0.00	
38		0.01	0.010000	0.00	0.000000
39		0.00	0.000000	0.00	0.000000
	Building	Burger Joint	Burrito Place	Bus Line	Bus Station \
0	0.010000	0.020000	0.01	0.000000	0.00000
1	0.000000	0.010000	0.00	0.000000	0.00000
2	0.000000	0.000000	0.00	0.000000	0.00000
3	0.000000	0.010000	0.00	0.000000	0.00000
4	0.000000	0.000000	0.00	0.000000	0.00000
5	0.010000	0.000000	0.00	0.000000	0.00000
6	0.010000	0.010000	0.00	0.000000	0.00000
7	0.000000	0.000000	0.00	0.000000	0.00000

8	0.000000	0.0	10000	0.00	0.000000	0.0000	00	
9	0.000000	0.0	10000	0.00	0.000000	0.00000	00	
10	0.000000		20000	0.00	0.000000	0.00000		
11	0.000000		00000	0.00	0.000000	0.0000		
12	0.000000		20000	0.00	0.000000	0.00000		
13	0.000000		17241	0.00	0.000000	0.00000		
14	0.000000		16393	0.00	0.000000	0.01639		
15	0.000000		00000	0.00	0.000000	0.01785		
16	0.000000		30000	0.00	0.000000	0.00000		
17	0.000000		10000	0.00	0.000000	0.00000		
18	0.000000		00000	0.00	0.000000	0.00000		
19	0.000000		00000	0.00	0.000000	0.00000		
20	0.000000		00000	0.00	0.000000	0.00000		
21	0.000000	0.0	00000	0.00	0.000000	0.02564	ł1	
22	0.000000	0.0	00000	0.00	0.000000	0.00000	00	
23	0.000000	0.0	00000	0.00	0.000000	0.00000	00	
24	0.010000	0.0	10000	0.00	0.000000	0.00000	00	
25	0.000000	0.0	44444	0.00	0.000000	0.00000	00	
26	0.010000	0.0	30000	0.00	0.000000	0.00000	00	
27	0.000000	0.0	00000	0.00	0.000000	0.00000	00	
28	0.000000		00000	0.00	0.000000	0.03846		
29	0.000000		00000	0.00	0.000000	0.00000		
30	0.000000		00000	0.00	0.000000	0.00000		
31	0.000000		00000	0.00	0.000000	0.00000		
32	0.000000		10000	0.00	0.000000	0.00000		
33	0.000000		25000	0.00	0.000000	0.00000		
34	0.000000		00000	0.00	0.000000	0.00000		
35	0.000000		10000	0.00	0.000000	0.00000		
36	0.000000		20000	0.00	0.000000	0.00000		
37	0.000000		11364	0.00	0.011364	0.00000		
38	0.000000		10000	0.00	0.000000	0.00000		
39	0.000000	0.0	10000	0.00	0.000000	0.00000	00	
	Business		Butcher	Cafeteria	Café	Cambodian	Restaurant	\
0		0.00	0.000000	0.000000	0.000000		0.00	
1		0.00	0.000000	0.000000	0.040000		0.00	
2		0.00	0.000000	0.023256	0.023256		0.00	
3		0.00	0.010000	0.000000	0.010000		0.00	
4		0.00	0.000000	0.000000	0.000000		0.00	
5		0.00	0.000000	0.000000	0.010000		0.00	
6		0.00	0.000000	0.000000	0.010000		0.00	
7		0.00	0.000000	0.000000	0.022727		0.00	
8		0.00	0.000000	0.000000	0.010000		0.00	
9		0.00	0.000000	0.000000	0.020000		0.00	
10		0.00	0.000000	0.000000	0.010000		0.00	
11		0.00	0.000000	0.000000	0.010000		0.00	
12		0.00	0.000000	0.000000	0.030000		0.00	
13		0.00	0.000000	0.000000	0.068966		0.00	
		3.00	3.00000	0.00000	3.000000		0.00	

14	0.00	0.000000	0.000000	0.049180	0.00	
15	0.00	0.000000	0.000000	0.053571	0.00	
16	0.00	0.000000	0.000000	0.020000	0.00	
17	0.00	0.000000	0.000000	0.040000	0.00	
18	0.00		0.000000	0.040000	0.00	
19	0.00		0.000000	0.050847	0.00	
20	0.00		0.000000	0.032258	0.00	
21	0.00		0.000000	0.000000	0.00	
22	0.00		0.000000	0.000000	0.00	
23	0.00		0.000000	0.020000	0.00	
24	0.00		0.000000	0.010000	0.00	
25	0.00		0.000000	0.014444	0.00	
26	0.00		0.000000	0.020000	0.00	
27	0.00		0.000000	0.020000	0.00	
28	0.00		0.000000	0.000000	0.00	
29	0.00		0.000000	0.000000	0.00	
30	0.00		0.000000	0.000000	0.00	
31	0.00		0.000000	0.000000	0.01	
32	0.00		0.000000	0.040000	0.00	
33	0.00		0.000000	0.050000	0.00	
34	0.01		0.00000	0.030000	0.00	
35	0.00		0.000000	0.010000	0.00	
36	0.00		0.000000	0.010000	0.00	
37	0.00	0.000000	0.000000	0.068182	0.00	
38	0.00	0.000000	0.000000	0.010000	0.00	
38 39	0.00 0.00	0.000000				
	0.00	0.000000 0.010000	0.000000	0.010000 0.010000	0.00	\
39	0.00 Camera Store Ca	0.000000 0.010000 ndy Store	0.000000	0.010000 0.010000 Restaurant	0.00 0.00 Caucasian Restaurant	\
39 0	0.00 Camera Store Ca 0.00	0.000000 0.010000 ndy Store 0.01	0.000000	0.010000 0.010000 Restaurant 0.000000	0.00 0.00 Caucasian Restaurant 0.000000	\
39 0 1	0.00 Camera Store Ca 0.00 0.00	0.000000 0.010000 ndy Store 0.01 0.00	0.000000	0.010000 0.010000 Restaurant 0.000000 0.000000	0.00 0.00 Caucasian Restaurant 0.000000 0.000000	\
39 0 1 2	0.00 Camera Store Ca 0.00 0.00 0.00	0.000000 0.010000 ndy Store 0.01 0.00 0.00	0.000000	0.010000 0.010000 Restaurant 0.000000 0.000000 0.023256	0.00 0.00 Caucasian Restaurant 0.000000 0.000000 0.000000	\
39 0 1 2 3	0.00 Camera Store Ca 0.00 0.00 0.00 0.00	0.000000 0.010000 ndy Store 0.01 0.00 0.00 0.00	0.000000	0.010000 0.010000 Restaurant 0.000000 0.000000 0.023256 0.000000	0.00 0.00 Caucasian Restaurant 0.000000 0.000000 0.000000	\
39 0 1 2 3 4	0.00 Camera Store Ca 0.00 0.00 0.00 0.00	0.000000 0.010000 ndy Store 0.01 0.00 0.00 0.00	0.000000	0.010000 0.010000 Restaurant 0.000000 0.000000 0.023256 0.000000 0.000000	0.00 0.00 Caucasian Restaurant 0.000000 0.000000 0.000000 0.000000	\
39 0 1 2 3 4 5	0.00 Camera Store Ca 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.000000 0.010000 ndy Store 0.01 0.00 0.00 0.00 0.00	0.000000	0.010000 0.010000 Restaurant 0.000000 0.000000 0.023256 0.000000 0.000000	0.00 0.00 Caucasian Restaurant 0.000000 0.000000 0.000000 0.000000 0.000000	\
39 0 1 2 3 4 5 6	O.00 Camera Store Ca 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.00	0.000000 0.010000 ndy Store 0.01 0.00 0.00 0.00 0.00 0.00 0.00	0.000000	0.010000 0.010000 Restaurant 0.000000 0.000000 0.023256 0.000000 0.000000 0.000000 0.010000	0.00 0.00 Caucasian Restaurant 0.000000 0.000000 0.000000 0.000000 0.000000	\
39 0 1 2 3 4 5 6 7	O.00 Camera Store Ca 0.00 0.00 0.00 0.00 0.00 0.01 0.00 0.00	0.000000 0.010000 ndy Store 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.000000	0.010000 0.010000 Restaurant 0.000000 0.000000 0.023256 0.000000 0.000000 0.000000 0.010000 0.000000	0.00 0.00 Caucasian Restaurant 0.000000 0.000000 0.000000 0.000000 0.000000	\
39 0 1 2 3 4 5 6 7 8	Camera Store Ca 0.00 0.00 0.00 0.00 0.00 0.01 0.00 0.00 0.00	0.000000 0.010000 ndy Store 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.000000	0.010000 0.010000 Restaurant 0.000000 0.0023256 0.000000 0.000000 0.000000 0.010000 0.010000 0.010000	0.00 0.00 Caucasian Restaurant 0.000000 0.000000 0.000000 0.000000 0.000000	\
39 0 1 2 3 4 5 6 7 8 9	Camera Store Ca 0.00 0.00 0.00 0.00 0.00 0.01 0.00 0.00 0.00 0.00	0.000000 0.010000 ndy Store 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.000000	0.010000 0.010000 Restaurant 0.000000 0.0023256 0.000000 0.000000 0.010000 0.010000 0.010000 0.000000	0.00 0.00 Caucasian Restaurant 0.000000 0.000000 0.000000 0.000000 0.010000 0.000000 0.000000 0.000000	\
39 0 1 2 3 4 5 6 7 8 9 10	O.00 Camera Store Ca 0.00 0.00 0.00 0.00 0.00 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.000000 0.010000 ndy Store 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.000000	0.010000 0.010000 Restaurant 0.000000 0.000000 0.023256 0.000000 0.000000 0.010000 0.010000 0.010000 0.010000 0.010000 0.000000	0.00 0.00 Caucasian Restaurant 0.000000 0.000000 0.000000 0.000000 0.000000	\
39 0 1 2 3 4 5 6 7 8 9 10	Camera Store Ca 0.00 0.00 0.00 0.00 0.00 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.000000 0.010000 ndy Store 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.000000	0.010000 0.010000 Restaurant 0.000000 0.0023256 0.000000 0.000000 0.010000 0.010000 0.010000 0.010000 0.000000 0.000000 0.000000	0.00 0.00 Caucasian Restaurant 0.000000 0.000000 0.000000 0.000000 0.000000	\
39 0 1 2 3 4 5 6 7 8 9 10 11 12	Camera Store Ca 0.00 0.00 0.00 0.00 0.00 0.01 0.00 0.00 0.00 0.00 0.00 0.00	0.000000 0.010000 ndy Store 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.000000	0.010000 0.010000 Restaurant 0.000000 0.000000 0.023256 0.000000 0.000000 0.010000 0.010000 0.010000 0.000000 0.000000 0.000000 0.000000	0.00 0.00 Caucasian Restaurant 0.000000 0.000000 0.000000 0.000000 0.000000	\
39 0 1 2 3 4 5 6 7 8 9 10 11 12 13	O.00 Camera Store Ca 0.00 0.00 0.00 0.00 0.00 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.000000 0.010000 ndy Store 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.000000	0.010000 0.010000 Restaurant 0.000000 0.000000 0.023256 0.000000 0.000000 0.010000 0.010000 0.010000 0.000000 0.000000 0.000000 0.000000	0.00 0.00 Caucasian Restaurant 0.000000 0.000000 0.000000 0.000000 0.000000	\
39 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14	Camera Store Ca 0.00 0.00 0.00 0.00 0.00 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.000000 0.010000 ndy Store 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.000000	0.010000 0.010000 Restaurant 0.000000 0.000000 0.023256 0.000000 0.000000 0.010000 0.010000 0.010000 0.010000 0.000000 0.000000 0.000000 0.000000	0.00 0.00 Caucasian Restaurant 0.000000 0.000000 0.000000 0.000000 0.000000	\
39 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	Camera Store Ca 0.00 0.00 0.00 0.00 0.00 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.000000 0.010000 ndy Store 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.000000	0.010000 0.010000 Restaurant 0.000000 0.000000 0.023256 0.000000 0.000000 0.010000 0.010000 0.010000 0.000000 0.000000 0.000000 0.000000	0.00 0.00 Caucasian Restaurant 0.000000 0.000000 0.000000 0.000000 0.000000	\
39 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	O.00 Camera Store Ca 0.00 0.00 0.00 0.00 0.00 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.000000 0.010000 ndy Store 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.000000	0.010000 0.010000 Restaurant 0.000000 0.000000 0.023256 0.000000 0.000000 0.010000 0.010000 0.010000 0.000000 0.000000 0.000000 0.000000	0.00 0.00 Caucasian Restaurant 0.000000 0.000000 0.000000 0.000000 0.000000	\
39 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	O.00 Camera Store Ca 0.00 0.00 0.00 0.00 0.00 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.000000 0.010000 ndy Store 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.000000	0.010000 0.010000 Restaurant 0.000000 0.000000 0.0023256 0.000000 0.000000 0.010000 0.010000 0.010000 0.000000 0.000000 0.000000 0.000000	0.00 0.00 Caucasian Restaurant 0.000000 0.000000 0.000000 0.000000 0.000000	\
39 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	O.00 Camera Store Ca 0.00 0.00 0.00 0.00 0.01 0.00 0.00 0.0	0.000000 0.010000 ndy Store 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.000000	0.010000 0.010000 Restaurant 0.000000 0.000000 0.023256 0.000000 0.000000 0.010000 0.010000 0.010000 0.000000 0.000000 0.000000 0.000000	0.00 0.00 Caucasian Restaurant 0.000000 0.000000 0.000000 0.000000 0.000000	
39 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	O.00 Camera Store Ca 0.00 0.00 0.00 0.00 0.00 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.000000 0.010000 ndy Store 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.000000	0.010000 0.010000 Restaurant 0.000000 0.000000 0.0023256 0.000000 0.000000 0.010000 0.010000 0.010000 0.000000 0.000000 0.000000 0.000000	0.00 0.00 Caucasian Restaurant 0.000000 0.000000 0.000000 0.000000 0.000000	

20	0.00	0.00	0.016129	0.000	000
21	0.00	0.00	0.000000	0.000	
22	0.00	0.00	0.000000	0.000	
23	0.00	0.00	0.000000	0.000	
24	0.00	0.00	0.000000	0.000	
25	0.00	0.00	0.000000	0.000	
26	0.00	0.00	0.000000	0.000	
27	0.00	0.01	0.000000	0.000	
28	0.00	0.00	0.000000	0.000	
29	0.00	0.01	0.000000	0.000	
				0.000	
30	0.00	0.00	0.000000		
31	0.00	0.01	0.000000	0.000	
32	0.00	0.00	0.000000	0.000	
33	0.00	0.00	0.000000	0.000	
34	0.00	0.00	0.000000	0.000	
35	0.00	0.00	0.000000	0.000	
36	0.00	0.00	0.000000	0.000	
37	0.00	0.00	0.022727	0.000	
38	0.00	0.01	0.000000	0.000	
39	0.00	0.00	0.000000	0.000	000
	Cheese Shop	Chinese Restaurant	Chocolate Shop	Christmas Market	Church \
0	0.00	0.010000	0.00	0.00	0.00
1	0.00	0.000000	0.00	0.00	0.00
2	0.00	0.046512	0.00	0.00	0.00
3	0.00	0.000000	0.00	0.00	0.00
4	0.00	0.090000	0.00	0.00	0.00
5	0.00	0.000000	0.00	0.00	0.00
6	0.00	0.010000	0.00	0.00	0.00
7	0.00	0.022727	0.00	0.00	0.00
8	0.01	0.030000	0.00	0.00	0.00
9	0.00	0.000000	0.00	0.00	0.00
10	0.01	0.010000	0.00	0.00	0.00
11	0.02	0.000000	0.00	0.00	0.00
12	0.00	0.030000	0.00	0.00	0.00
13	0.00	0.034483	0.00	0.00	0.00
14	0.00	0.000000	0.00	0.00	0.00
15	0.00	0.035714	0.00	0.00	0.00
16	0.00	0.010000	0.00	0.00	0.00
17	0.00	0.010000	0.00	0.00	0.00
18	0.00	0.030000	0.01	0.00	0.00
19	0.00	0.033898	0.00	0.00	0.00
20	0.00	0.032258	0.00	0.00	0.00
21	0.00	0.051282	0.00	0.00	0.00
22	0.00	0.000000	0.00	0.00	0.00
23	0.00	0.020000	0.01	0.01	0.00
24	0.00	0.000000	0.00	0.00	0.00
25	0.00	0.022222	0.00	0.00	0.00

26 27 28 29 30 31 32 33 34 35 36 37	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.0100 0.0000 0.0000 0.0000 0.0100 0.0200 0.0000 0.0100 0.0100	00 00 00 00 00 00 00 00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
38 39	0.00 0.00	0.0200 0.0200		0.00 0.00	0.00 0.00	0.00
0 1 2 3	Climbing Gym 0.000000 0.000000 0.000000 0.000000	Clothing Store 0.010000 0.010000 0.000000 0.000000	Club House 0.00 0.00 0.00 0.00	Cocktail Bar 0.000000 0.020000 0.000000 0.010000	Coffee Shop 0.080000 0.050000 0.000000 0.060000	\
4 5 6 7	0.000000 0.000000 0.000000 0.000000	0.000000 0.010000 0.000000 0.022727	0.00 0.00 0.00 0.00	0.050000 0.030000 0.010000 0.022727	0.020000 0.030000 0.040000 0.022727	
8 9 10 11 12	0.000000 0.000000 0.000000 0.000000	0.000000 0.000000 0.030000 0.000000 0.040000	0.00 0.00 0.00 0.00	0.040000 0.010000 0.000000 0.040000 0.020000	0.030000 0.100000 0.010000 0.030000 0.020000	
13 14 15 16	0.000000 0.000000 0.000000 0.000000	0.00000 0.00000 0.00000 0.00000	0.00 0.00 0.00 0.00	0.034483 0.000000 0.000000 0.020000	0.068966 0.098361 0.017857 0.060000	
17 18 19 20 21	0.000000 0.000000 0.000000 0.000000 0.025641	0.000000 0.020000 0.016949 0.016129 0.000000	0.00 0.00 0.00 0.00	0.000000 0.030000 0.033898 0.000000 0.000000	0.020000 0.010000 0.050847 0.048387 0.025641	
22 23 24 25	0.000000 0.000000 0.000000 0.000000	0.00000 0.00000 0.030000 0.020000 0.000000	0.00 0.00 0.00 0.00	0.000000 0.030000 0.030000 0.000000	0.086957 0.040000 0.040000 0.111111	
26 27 28 29 30 31	0.000000 0.000000 0.000000 0.000000 0.000000	0.000000 0.000000 0.000000 0.100000 0.000000	0.00 0.00 0.00 0.00 0.00	0.010000 0.040000 0.000000 0.058824 0.000000	0.030000 0.030000 0.038462 0.020000 0.058824 0.010000	

32 33 34 35 36 37 38 39	0.00000 0.000000 0.000000 0.000000 0.000000	0.02000 0.00000 0.00000 0.01000 0.00000 0.02272 0.00000 0.00000	0 0 0 0 7 0	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.020000 0.000000 0.010000 0.030000 0.000000 0.011364 0.010000 0.000000	0.030000 0.012500 0.040000 0.050000 0.030000 0.011364 0.020000 0.070000
0 1	College Academic	Building 0.00 0.00	College	Bookstore 0.00 0.00		afeteria \ 0.000000 0.000000
2		0.00		0.00	C	0.00000
3		0.00		0.00		0.00000
4		0.00		0.00		0.00000
5		0.00		0.00		0.00000
6		0.00		0.00	C	0.00000
7		0.00		0.00	C	0.00000
8		0.00		0.00	C	0.00000
9		0.00		0.00	C	0.00000
10		0.00		0.00	C	0.00000
11		0.00		0.00	C	0.00000
12		0.00		0.00	C	0.00000
13		0.00		0.00	C	0.00000
14		0.00		0.00	C	0.00000
15		0.00		0.00	C	0.00000
16		0.01		0.00		0.00000
17		0.00		0.01		0.00000
18		0.00		0.00		0.00000
19		0.00		0.00		0.00000
20		0.00		0.00		0.00000
21		0.00		0.00		0.00000
22		0.00		0.00		0.00000
23		0.00		0.00		0.000000
24		0.00		0.00		0.000000
25		0.00		0.00		0.022222
26		0.00		0.00		0.000000
27		0.00		0.00		0.000000
28 29		0.00 0.00		0.00		0.00000
30		0.00		0.00		0.000000 0.000000
31		0.00		0.00		0.000000
32		0.00		0.00		0.000000
33		0.00		0.00		0.000000
34		0.00		0.00		0.000000
35		0.00		0.00		0.000000
36		0.00		0.00		0.000000
37		0.00		0.00		0.000000
					_	

38	0.00		0.00	0.	000000
39		0.00	0.00	0 .	000000
	College Theater	Comedy Club	Community Cent	er Concert H	Hall \
0	0.00	0.000000	0.0000	00.000	0000
1	0.00	0.000000	0.0100	00 0.010	0000
2	0.00	0.000000	0.0000	00.000	0000
3	0.01	0.000000	0.0000	00.000	0000
4	0.00	0.000000	0.0000	00.000	000
5	0.00	0.000000	0.0000	00.000	000
6	0.00	0.010000	0.0000	00 0.010	0000
7	0.00	0.000000	0.0000	00 0.000	0000
8	0.00	0.000000	0.0000	00 0.000	0000
9	0.00	0.000000	0.0000	00 0.000	0000
10	0.00	0.000000	0.0000	00 0.000	0000
11	0.00	0.020000	0.0000	00 0.000	0000
12	0.00	0.000000	0.0000		
13	0.00	0.000000	0.0000		
14	0.00	0.016393	0.0000		
15	0.00	0.000000	0.0000		
16	0.00	0.000000	0.0000		
17	0.00	0.000000	0.0000		
18	0.00	0.000000	0.0000		
19	0.00	0.000000	0.0169		
20	0.00	0.000000	0.0000		
21	0.00	0.000000	0.0000		
22	0.00	0.000000	0.0000		
	0.00				
23		0.000000	0.0000		
24	0.00		0.0000		
25	0.00	0.000000	0.0000		
26	0.00	0.000000	0.0000		
27	0.00	0.010000	0.0000		
28	0.00	0.000000	0.0000		
29	0.00	0.000000	0.0000		
30	0.00	0.000000	0.0000		
31	0.00	0.000000	0.0000		
32	0.00	0.000000	0.0000		
33	0.00	0.000000	0.0000		
34	0.00	0.000000	0.0000		
35	0.00	0.000000	0.0000		
36	0.00	0.000000	0.0000		
37	0.00	0.000000	0.0000		
38	0.00	0.000000	0.0000		
39	0.00	0.000000	0.0000	00.000	0000
	Convenience Store	e Cosmetics	Shop Coworking	Space Crepe	erie \
0	0.00000				0.00
1	0.00000				0.00

2	0.000000	0.046512	0.0	0.00
3	0.000000	0.000000	0.0	1 0.01
4	0.000000	0.010000	0.0	
5	0.000000	0.010000	0.0	
6	0.000000	0.000000	0.0	
7	0.022727	0.000000	0.0	
8	0.000000	0.000000	0.0	
9	0.000000	0.000000	0.0	
9 10				
	0.000000	0.030000	0.0	
11	0.010000	0.000000	0.0	
12	0.000000	0.020000	0.0	
13	0.000000	0.017241	0.0	
14	0.000000	0.000000	0.0	
15	0.000000	0.000000	0.0	
16	0.000000	0.020000	0.0	
17	0.000000	0.020000	0.0	
18	0.000000	0.010000	0.0	0.00
19	0.000000	0.000000	0.0	0.00
20	0.000000	0.016129	0.0	0.00
21	0.000000	0.000000	0.0	0.00
22	0.000000	0.000000	0.0	0.00
23	0.000000	0.020000	0.0	0.00
24	0.000000	0.040000	0.0	0.00
25	0.000000	0.000000	0.0	0.00
26	0.000000	0.000000	0.0	
27	0.000000	0.000000	0.0	
28	0.000000	0.038462	0.0	
29	0.000000	0.000000	0.0	
30	0.000000	0.000000	0.0	
31	0.000000	0.010000	0.0	
32	0.000000	0.000000	0.0	
33	0.012500	0.000000	0.0	
34	0.000000	0.000000	0.0	
35	0.000000	0.010000	0.0	
	0.000000		0.0	
36		0.030000		
37	0.000000	0.011364	0.0	
38	0.000000	0.050000	0.0	
39	0.000000	0.000000	0.0	0.00
	Cuban Pastaurant	Cultural Cartar	Cupaniza Char	Cwala C+udia \
0	Cuban Restaurant 0.000000	Cultural Center		Cycle Studio \
0		0.00	0.02	0.000000
1	0.000000	0.00	0.00	0.000000
2	0.000000	0.00	0.00	0.023256
3	0.000000	0.00	0.02	0.010000
4	0.000000	0.00	0.00	0.000000
5	0.010000	0.00	0.00	0.000000
6	0.000000	0.00	0.00	0.000000
7	0.022727	0.00	0.00	0.000000

8	0.000000	0.	00	0.01	0.	000000		
9	0.010000	0.	00	0.00	0.	010000		
10	0.010000	0.	00	0.00	0.	030000		
11	0.000000	0.	00	0.01	0.	000000		
12	0.010000	0.		0.00	0.	000000		
13	0.000000	0.		0.00		000000		
14	0.000000	0.		0.00		000000		
15	0.000000	0.		0.00		000000		
16	0.010000	0.		0.00		020000		
17	0.000000	0.		0.00		020000		
18	0.000000	0.		0.00		010000		
19	0.000000	0.		0.00		000000		
20	0.000000	0.		0.00		000000		
21	0.025641	0.		0.00		000000		
22	0.000000	0.		0.00		000000		
23	0.010000	0.		0.00		020000		
24	0.000000	0.		0.01		000000		
25	0.000000	0.		0.00		000000		
26	0.020000	0.		0.01		000000		
27	0.000000	0.		0.00		000000		
28	0.000000	0.		0.00		000000		
29	0.000000	0.		0.01		010000		
30	0.000000	0.		0.00		000000		
31	0.000000	0.		0.00		010000		
32	0.000000	0.		0.02		010000		
33	0.000000	0.		0.00		000000		
34	0.000000	0.		0.00		000000		
35	0.000000	0.		0.00		010000		
36	0.000000	0.		0.00		000000		
37	0.000000	0.		0.00		000000		
38	0.000000	0.		0.00		000000		
39	0.000000	0.		0.00		000000		
39	0.000000	0.	00	0.00	0.	000000		
	Czech Restaurant	Dance Studio	Daycare	Deli /	Bodega	Departm	ment Store	\
0	0.00	0.000000	0.00		.000000	1	0.010000	Š
1	0.00	0.010000	0.00		.000000		0.000000	
2	0.00	0.000000	0.00		.000000		0.000000	
3	0.00	0.000000	0.00		.000000		0.000000	
4	0.00	0.000000	0.00		.000000		0.000000	
5	0.00	0.020000	0.00		.010000		0.000000	
6	0.00	0.000000	0.00		.010000		0.000000	
7	0.00	0.022727	0.00		.068182		0.000000	
8	0.00	0.000000	0.00		.010000		0.000000	
9	0.00	0.000000	0.00		.010000		0.000000	
10	0.00	0.000000	0.00		.000000		0.000000	
11	0.00	0.000000	0.00		.010000		0.000000	
12	0.00	0.000000	0.00		.000000		0.000000	
13	0.00	0.000000	0.00		.034483		0.000000	
10	0.00	0.00000	0.00	U	. 55 1 400		3.00000	

14	0.0	0.0000	00	00.0	0.	000000	0.000000	
15	0.0	0.0000	00	00.0	0.	035714	0.000000	
16	0.0	1 0.0000	00	00.0	0.	030000	0.000000	
17	0.0	0.0000	00	00.0	0.	000000	0.010000	
18	0.0	0.0000	00	00.0	0.	000000	0.000000	
19	0.0	0.0169	49	00.0	0.	000000	0.000000	
20	0.0	0.0000	00	00.0	0.	032258	0.000000	
21	0.0	0.0000	00	00.0	0.	076923	0.000000	
22	0.0	0.0000	00	00.0	0.	043478	0.043478	
23	0.0	0.0000	00	00.0	0.	010000	0.000000	
24	0.0	0.0000	00	0.00	0.	000000	0.010000	
25	0.0			0.00	0.	044444	0.000000	
26	0.0	0.0000	00	0.00	0.	010000	0.000000	
27	0.0	0.0100		0.00	0.	020000	0.000000	
28	0.0			0.00	0.	038462	0.000000	
29	0.0			0.00	0.	000000	0.000000	
30	0.0	0.0000	00	0.00	0.	000000	0.000000	
31	0.0			0.00		010000	0.020000	
32	0.0			0.00		000000	0.000000	
33	0.0			0.00		037500	0.000000	
34	0.0			0.00		010000	0.000000	
35	0.0			0.00		000000	0.000000	
36	0.0			0.00		000000	0.000000	
37	0.0			0.00		022727	0.011364	
38	0.0			0.00		000000	0.000000	
39	0.0	0.0000	00	0.01	0.	030000	0.000000	
39	0.00	0.0000	00	0.01	0.	030000	0.000000	
39		0 0.0000 Dessert Shop	00 Dim Su			030000 Diner	0.000000 Discount Store	\
39 0								\
	Design Studio	Dessert Shop			aurant	Diner	Discount Store	\
0	Design Studio 1	Dessert Shop			aurant 0.00	Diner 0.000000	Discount Store 0.000000	\
0 1	Design Studio 10.00 0.00	Dessert Shop 0.000000 0.000000			aurant 0.00 0.00	Diner 0.000000 0.000000	Discount Store 0.000000 0.000000	\
0 1 2	Design Studio 10.00 0.00 0.00	Dessert Shop 0.000000 0.000000 0.023256			aurant 0.00 0.00 0.00	Diner 0.000000 0.000000 0.000000	Discount Store 0.000000 0.000000 0.000000	\
0 1 2 3 4	Design Studio 0.00 0.00 0.00 0.00 0.00	Dessert Shop 0.000000 0.000000 0.023256 0.010000			aurant 0.00 0.00 0.00 0.00	Diner 0.000000 0.000000 0.000000 0.000000	Discount Store 0.000000 0.000000 0.000000 0.000000	\
0 1 2 3 4 5	Design Studio 0.00 0.00 0.00 0.00 0.00 0.00	Dessert Shop 0.000000 0.000000 0.023256 0.010000 0.010000			aurant 0.00 0.00 0.00 0.00 0.00	Diner 0.000000 0.000000 0.000000 0.000000	Discount Store 0.000000 0.000000 0.000000 0.000000 0.000000	\
0 1 2 3 4	Design Studio 0.00 0.00 0.00 0.00 0.00 0.00 0.00	Dessert Shop 0.000000 0.000000 0.023256 0.010000 0.010000 0.000000			aurant 0.00 0.00 0.00 0.00 0.04 0.00	Diner 0.000000 0.000000 0.000000 0.000000 0.010000	Discount Store 0.000000 0.000000 0.000000 0.000000 0.000000	\
0 1 2 3 4 5 6 7	Design Studio 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	Dessert Shop 0.000000 0.000000 0.023256 0.010000 0.010000 0.000000 0.000000			aurant 0.00 0.00 0.00 0.00 0.00 0.04 0.00	Diner 0.000000 0.000000 0.000000 0.000000 0.010000 0.010000	Discount Store	\
0 1 2 3 4 5 6	Design Studio 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	Dessert Shop 0.000000 0.000000 0.023256 0.010000 0.010000 0.000000 0.000000			aurant 0.00 0.00 0.00 0.00 0.04 0.00 0.00	Diner 0.000000 0.000000 0.000000 0.000000 0.010000 0.010000 0.010000	Discount Store	\
0 1 2 3 4 5 6 7 8	Design Studio 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	Dessert Shop 0.000000 0.000000 0.023256 0.010000 0.010000 0.000000 0.000000 0.010000			aurant 0.00 0.00 0.00 0.00 0.04 0.00 0.00 0.0	Diner 0.000000 0.000000 0.000000 0.000000 0.010000 0.010000 0.010000 0.000000	Discount Store	\
0 1 2 3 4 5 6 7 8	Design Studio 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	Dessert Shop 0.000000 0.000000 0.023256 0.010000 0.010000 0.000000 0.000000 0.010000 0.000000			aurant 0.00 0.00 0.00 0.00 0.04 0.00 0.00 0.0	Diner 0.000000 0.000000 0.000000 0.000000 0.010000 0.010000 0.000000 0.000000 0.000000	Discount Store	\
0 1 2 3 4 5 6 7 8 9	Design Studio 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	Dessert Shop 0.000000 0.000000 0.023256 0.010000 0.010000 0.000000 0.000000 0.010000 0.010000 0.020000			aurant 0.00 0.00 0.00 0.00 0.04 0.00 0.00 0.0	Diner 0.000000 0.000000 0.000000 0.000000 0.010000 0.010000 0.000000 0.000000 0.000000	Discount Store	\
0 1 2 3 4 5 6 7 8 9 10	Design Studio 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	Dessert Shop 0.000000 0.000000 0.023256 0.010000 0.010000 0.000000 0.000000 0.010000 0.010000 0.020000 0.000000			aurant 0.00 0.00 0.00 0.00 0.04 0.00 0.00 0.0	Diner 0.000000 0.000000 0.000000 0.000000 0.010000 0.010000 0.000000 0.000000 0.000000 0.000000	Discount Store	\
0 1 2 3 4 5 6 7 8 9 10 11	Design Studio 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	Dessert Shop 0.000000 0.000000 0.023256 0.010000 0.010000 0.000000 0.000000 0.010000 0.020000 0.020000 0.020000			aurant 0.00 0.00 0.00 0.00 0.04 0.00 0.00 0.0	Diner 0.000000 0.000000 0.000000 0.000000 0.010000 0.010000 0.000000 0.000000 0.000000 0.010000	Discount Store	
0 1 2 3 4 5 6 7 8 9 10 11 12 13	Design Studio 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	Dessert Shop 0.000000 0.000000 0.023256 0.010000 0.010000 0.000000 0.000000 0.010000 0.020000 0.020000 0.020000 0.000000			aurant 0.00 0.00 0.00 0.00 0.04 0.00 0.00 0.0	Diner 0.000000 0.000000 0.000000 0.000000 0.010000 0.010000 0.000000 0.000000 0.000000 0.010000 0.000000 0.000000 0.000000	Discount Store	
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14	Design Studio 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	Dessert Shop			aurant 0.00 0.00 0.00 0.00 0.04 0.00 0.00 0.0	Diner 0.000000 0.000000 0.000000 0.000000 0.010000 0.010000 0.000000 0.000000 0.010000 0.000000 0.000000 0.000000 0.000000	Discount Store	
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	Design Studio 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	Dessert Shop			aurant 0.00 0.00 0.00 0.00 0.04 0.00 0.00 0.0	Diner 0.000000 0.000000 0.000000 0.000000 0.010000 0.010000 0.000000 0.000000 0.010000 0.000000 0.000000 0.000000 0.000000	Discount Store	
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Design Studio 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	Dessert Shop			aurant 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	Diner 0.000000 0.000000 0.000000 0.000000 0.010000 0.010000 0.000000 0.000000 0.000000 0.000000	Discount Store	
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Design Studio 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	Dessert Shop			aurant 0.00 0.00 0.00 0.00 0.04 0.00 0.00 0.0	Diner 0.000000 0.000000 0.000000 0.000000 0.010000 0.010000 0.000000 0.000000 0.010000 0.000000 0.000000 0.000000 0.000000	Discount Store	

20		0.00	0.000000		0.00 0.000000	0.000000
21		0.00	0.000000		0.00 0.025641	0.000000
22		0.00	0.000000		0.00 0.043478	0.086957
23		0.00	0.000000		0.00 0.000000	0.000000
24		0.00	0.020000		0.00 0.000000	0.000000
25		0.00	0.000000		0.00 0.000000	0.000000
26		0.00	0.000000		0.00 0.020000	0.000000
27		0.00	0.000000		0.00 0.000000	0.000000
28		0.00	0.000000		0.00 0.000000	0.000000
29		0.02	0.020000		0.00 0.000000	0.000000
30		0.00	0.000000		0.00 0.000000	0.000000
31		0.01	0.030000		0.00 0.000000	0.000000
32		0.00	0.000000		0.00 0.000000	0.000000
33		0.00	0.000000		0.00 0.037500	0.000000
34		0.00	0.000000		0.00 0.010000	0.000000
35		0.00	0.010000		0.00 0.010000	0.000000
36		0.00	0.020000		0.00 0.010000	0.000000
37		0.00	0.000000		0.00 0.011364	0.000000
38		0.00	0.000000		0.00 0.000000	0.000000
39		0.00	0.010000		0.00 0.020000	0.000000
00		0.00	0.010000		0.00 0.020000	0.00000
	Dive Bar	Dog Run	Donut Shop	Drugstore	Dry Cleaner \	
0	0.00	0.000000	0.000000	0.00	0.000000	
1	0.00	0.000000	0.000000	0.00	0.000000	
2	0.00	0.000000	0.000000	0.00	0.000000	
3	0.00	0.000000	0.000000	0.00	0.000000	
4	0.00	0.000000	0.000000	0.00	0.000000	
5	0.00	0.000000	0.000000	0.00	0.000000	
6	0.01	0.020000	0.000000	0.00	0.000000	
7	0.00	0.000000	0.022727	0.00	0.000000	
8	0.00	0.010000	0.000000	0.00	0.000000	
9	0.00	0.000000	0.000000	0.00	0.000000	
10	0.00		0.010000	0.00	0.000000	
11	0.00	0.000000	0.010000	0.00	0.000000	
12	0.00	0.000000	0.000000	0.00	0.000000	
13	0.00	0.000000	0.017241	0.00	0.000000	
14	0.00	0.032787	0.000000	0.00	0.000000	
15	0.00	0.017857	0.017857	0.00	0.000000	
16	0.00	0.000000	0.000000	0.00	0.000000	
17	0.00	0.010000	0.000000	0.00	0.000000	
18	0.00	0.000000	0.000000	0.00	0.000000	
19	0.00	0.000000	0.000000	0.00	0.000000	
20	0.00	0.016129	0.000000	0.00	0.000000	
21	0.00	0.000000	0.000000	0.00	0.000000	
22	0.00	0.000000	0.043478	0.00	0.000000	
23	0.00	0.000000	0.000000	0.00	0.000000	
24	0.00	0.000000	0.000000	0.00	0.000000	
25	0.00	0.000000	0.000000	0.00	0.000000	
		•		•		

26 27 28 29 30 31 32 33 34 35 36 37 38 39	0.00 0.00 0.00 0.00 0.00 0.01 0.00 0.00	0.010000 0.000000 0.038462 0.000000 0.000000 0.010000 0.037500 0.020000 0.010000 0.010000 0.000000 0.000000 0.010000	0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.012500 0.000000 0.000000 0.000000 0.022727 0.000000 0.000000	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.000000 0.000000 0.038462 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000		
	Dumpling	Restaurant	Duty-free Shop		European	Restaurant	\
0		0.000000	0.00			0.00	
1		0.000000	0.00			0.00	
2		0.000000	0.00			0.00	
3		0.000000	0.00			0.00	
4		0.020000	0.00			0.00	
5		0.000000	0.00			0.00	
6 7		0.000000	0.00			0.00	
8		0.000000	0.00			0.00	
9		0.000000	0.00			0.00	
10		0.000000	0.00			0.00	
11		0.000000	0.00			0.00	
12		0.000000	0.00			0.01	
13		0.000000	0.00			0.00	
14		0.000000	0.00)		0.00	
15		0.000000	0.00)		0.00	
16		0.000000	0.00	1		0.00	
17		0.000000	0.00)		0.00	
18		0.000000	0.00			0.00	
19		0.000000	0.00			0.00	
20		0.000000	0.00			0.00	
21		0.025641	0.00			0.00	
22		0.000000	0.00			0.00	
23		0.000000	0.00			0.00	
24 25		0.000000	0.00			0.00	
25 26		0.000000	0.00			0.00	
27		0.000000	0.00			0.00	
28		0.000000	0.00			0.00	
29		0.000000	0.00			0.00	
30		0.000000	0.00			0.00	
31		0.000000	0.00			0.00	

32	0.00000	0.00		0.00
33	0.00000	0.00		0.00
34	0.00000	0.01		0.00
35	0.00000	0.00		0.00
36	0.00000	0.00		0.00
37	0.00000	0.00		0.00
38	0.00000	0.00		0.00
39	0.00000	0.00		0.00
	Electronics Store Engl	ish Restaurant	Ethiopian Restaurant	Event Space \
0	0.01	0.00	0.000000	0.000000
1	0.00	0.00	0.000000	0.000000
2	0.00	0.00	0.023256	0.023256
3	0.01	0.00	0.000000	0.000000
4	0.00	0.01	0.000000	0.000000
5	0.00	0.00	0.000000	0.000000
6	0.00	0.00	0.010000	0.000000
7	0.00	0.00	0.000000	0.000000
8	0.00	0.00	0.000000	0.010000
9	0.00	0.00	0.000000	0.020000
10	0.00	0.00	0.000000	0.00000
11	0.00	0.00	0.000000	0.00000
12	0.03	0.00	0.000000	0.00000
13	0.00	0.00	0.000000	0.00000
14				
	0.00	0.00	0.000000	0.000000
15	0.00	0.00	0.000000	0.000000
16	0.00	0.00	0.000000	0.000000
17	0.01	0.00	0.000000	0.000000
18	0.00	0.00	0.000000	0.000000
19	0.00	0.00	0.000000	0.000000
20	0.00	0.00	0.016129	0.000000
21	0.00	0.00	0.000000	0.000000
22	0.00	0.00	0.000000	0.000000
23	0.00	0.00	0.000000	0.000000
24	0.00	0.00	0.000000	0.000000
25	0.00	0.00	0.022222	0.000000
26	0.00	0.00	0.000000	0.000000
27	0.00	0.00	0.000000	0.010000
28	0.00	0.00	0.000000	0.000000
29	0.01	0.00	0.000000	0.000000
30	0.00	0.00	0.000000	0.000000
31	0.00	0.00	0.000000	0.000000
32	0.00	0.00	0.000000	0.010000
33	0.00	0.00	0.000000	0.000000
34	0.00	0.00	0.000000	0.000000
35	0.01	0.00	0.000000	0.000000
36	0.00	0.00	0.000000	0.000000
37	0.00	0.00	0.000000	0.000000

38 39		0.00 0.00	0.00 0.00	0.01000	
	Exhibit	Falafel Restaurant	Farmers Market	Fast Food Res	taurant \
0	0.00	0.000000	0.000000	C	.000000
1	0.01	0.000000	0.000000	0	.000000
2	0.00	0.000000	0.000000	0	.000000
3	0.00	0.000000	0.000000	0	.000000
4	0.00	0.000000	0.000000	C	.000000
5	0.00	0.020000	0.010000	0	.000000
6	0.00	0.000000	0.000000	C	.000000
7	0.00	0.000000		C	.000000
8	0.00	0.000000	0.010000	C	.000000
9	0.00	0.020000	0.010000	C	.000000
10	0.00	0.000000		C	.000000
11	0.00	0.000000	0.000000	C	.000000
12	0.00	0.000000	0.000000	C	.000000
13	0.00	0.000000	0.000000	C	.017241
14	0.00	0.000000	0.000000	C	.000000
15	0.00	0.000000	0.017857	C	.017857
16	0.00	0.000000	0.000000	0	.000000
17	0.00	0.000000	0.000000	0	.000000
18	0.00	0.010000	0.000000	C	.000000
19	0.00	0.000000	0.000000	C	.000000
20	0.00	0.016129	0.016129	C	.000000
21	0.00	0.025641	0.000000	C	.000000
22	0.00	0.000000	0.000000	0	.000000
23	0.00	0.000000	0.000000	0	.010000
24	0.00	0.000000	0.000000	0	.000000
25	0.00	0.000000	0.022222	. C	.000000
26	0.00	0.000000	0.000000	0	.000000
27	0.00	0.000000	0.000000	0	.000000
28	0.00	0.000000	0.038462	. C	.000000
29	0.00	0.000000	0.000000	C	.000000
30	0.00	0.000000	0.058824	: C	.000000
31	0.00	0.000000	0.000000	C	.000000
32	0.00	0.000000	0.000000	C	.000000
33	0.00	0.000000	0.000000	C	.000000
34	0.00	0.000000	0.010000	C	.000000
35	0.07	0.000000	0.000000	C	.000000
36	0.00	0.000000	0.000000	C	.000000
37	0.00	0.000000	0.000000	C	.000000
38	0.00	0.010000	0.000000	C	.000000
39	0.00	0.000000	0.010000	C	.000000
	Filipino	Restaurant Fish M	Market Flea Mark	et Flower Shop	\
0		0.000000	0.00 0.	0.00	
1		0.010000	0.00 0.	00 0.01	

2	0.00000	0.00	0.00	0.00		
3	0.00000	0.01	0.01	0.00		
4	0.00000	0.00	0.00	0.00		
5	0.00000	0.00	0.00	0.00		
6	0.00000	0.00	0.00	0.00		
7	0.00000	0.00	0.00	0.00		
8	0.020000	0.00	0.00	0.01		
9	0.000000	0.00	0.00	0.00		
10	0.000000	0.00	0.00	0.00		
11	0.010000	0.00	0.00	0.00		
12	0.00000	0.00	0.00	0.00		
13	0.000000	0.00	0.00	0.00		
14	0.000000	0.00	0.00	0.00		
15	0.000000	0.00	0.00	0.00		
16	0.000000	0.00	0.00	0.00		
17	0.000000	0.00	0.00	0.00		
18	0.000000	0.00	0.01	0.00		
19	0.016949	0.00	0.00	0.00		
20	0.00000	0.00	0.00	0.00		
21	0.000000	0.00	0.00	0.00		
22	0.000000	0.00	0.00	0.00		
23	0.000000	0.00	0.00	0.00		
24	0.000000	0.00	0.00	0.01		
25	0.000000	0.00	0.00	0.00		
26	0.000000	0.00	0.00	0.00		
27	0.00000	0.00	0.00	0.00		
28	0.00000	0.00	0.00	0.00		
29	0.00000	0.00	0.00	0.00		
30	0.00000	0.00	0.00	0.00		
31	0.00000	0.00	0.00	0.00		
32	0.00000	0.00	0.00	0.00		
33	0.00000	0.00	0.00	0.00		
34	0.00000	0.00	0.00	0.00		
35	0.00000	0.00	0.00	0.00		
36	0.00000	0.00	0.00	0.01		
37	0.00000	0.00	0.00	0.00		
38	0.00000	0.00	0.00	0.00		
39	0.000000	0.00	0.00	0.00		
	Food & Drink Shop Food	Court Food	d Truck Fountain	French	Restaurant	\
0	0.000000		.020000 0.02		0.000000	`
1	0.000000		.010000 0.00		0.030000	
2	0.00000		.000000 0.00		0.030000	
3	0.00000		.000000 0.00		0.040312	
4	0.00000		.000000 0.00		0.000000	
5	0.00000		.000000 0.00		0.030000	
6	0.00000		.000000 0.00		0.030000	
7	0.00000		.000000 0.00			
ı	0.00000	0.00 0	.000000 0.00		0.022727	

8	0.000000	0.00	0.000000		0.000000
9	0.00000	0.01	0.030000	0.00	0.000000
10	0.00000	0.00	0.000000	0.00	0.010000
11	0.00000	0.00	0.010000	0.00	0.000000
12	0.00000	0.00	0.000000	0.00	0.040000
13	0.00000	0.00	0.000000	0.00	0.000000
14	0.00000	0.00	0.016393	0.00	0.000000
15	0.00000	0.00	0.000000	0.00	0.000000
16	0.00000	0.00	0.000000	0.00	0.010000
17	0.00000	0.00	0.020000	0.01	0.040000
18	0.00000	0.00	0.000000	0.00	0.020000
19	0.00000	0.00	0.000000		0.016949
20	0.00000	0.00	0.000000	0.00	0.016129
21	0.025641	0.00	0.000000		0.000000
22	0.00000	0.00	0.000000		0.000000
23	0.00000	0.00	0.020000		0.020000
24	0.000000	0.02	0.020000		0.000000
25	0.000000	0.00	0.044444		0.000000
26	0.000000	0.00	0.000000		0.030000
27	0.000000	0.00	0.000000		0.050000
28	0.000000	0.00	0.000000		0.000000
29	0.000000	0.00	0.000000		0.020000
30	0.000000	0.00	0.000000		0.000000
31	0.000000	0.00	0.000000		0.010000
32	0.000000	0.00	0.000000		0.020000
33	0.000000	0.00	0.000000		0.012500
34	0.000000	0.00	0.010000		0.030000
35	0.000000	0.00	0.000000		0.030000
36	0.010000	0.00	0.000000		0.020000
37	0.00000	0.00	0.000000		0.000000
38	0.010000	0.00	0.000000		0.030000
39	0.00000	0.00	0.000000		0.010000
33	0.00000	0.00	0.000000	0.00	0.010000
	Fried Chicken Joint	Frozon Voc	rurt Shop	Furniture /	Home Store \
0	0.000000	110Zen 10g	0.000000	ruiniture /	0.000000
1	0.000000		0.000000		0.000000
2	0.023256		0.000000		0.000000
3	0.000000		0.000000		0.000000
4	0.000000		0.000000		0.020000
5	0.000000		0.000000		0.020000
6	0.010000		0.000000		0.00000
7 8	0.000000 0.000000		0.000000		0.000000 0.000000
					0.000000
9 10	0.010000		0.000000		
11	0.000000		0.000000		0.020000
	0.010000		0.000000		0.000000
12	0.000000		0.000000		0.000000
13	0.017241		0.000000		0.000000

14	0	.000000	0.00	0000	0.00	0000	
15	0	.000000	0.03	5714	0.01	7857	
16	0	.000000	0.00	0000	0.00	0000	
17	0	.000000	0.00	0000	0.02	0000	
18	0	.000000	0.00	0000	0.02	0000	
19	0	.000000	0.00	0000	0.00	0000	
20	0	.016129	0.00	0000	0.01	6129	
21	0	.025641	0.00	0000	0.00	0000	
22	0	.000000	0.00	0000	0.00	0000	
23		.000000	0.00		0.00		
24		.020000	0.00		0.00		
25		.000000	0.00		0.00		
26		.010000	0.00		0.01		
27		.000000	0.00		0.01		
28		.000000	0.00		0.00		
29		.000000	0.00		0.02		
30		.000000	0.00		0.00		
31		.000000	0.01		0.04		
32		.000000	0.00		0.01		
33		.000000	0.01		0.00		
34		.000000	0.00		0.00		
35		.000000	0.00		0.00		
36		.000000	0.00		0.00		
37		.000000	0.01		0.00		
38		.000000	0.00		0.00		
39		.000000	0.00		0.00		
00	O	.000000	0.00	0000	0.00	0000	
	Gaming Cafe	Garden	Garden Center	Gas Station	Gastropub	Gay Bar	\
0	0.00	0.010	0.00	0.000000	0.010000	0.00	•
1	0.00	0.000	0.00	0.000000	0.000000	0.01	
2	0.00	0.000	0.00	0.000000	0.000000	0.00	
3	0.00	0.000	0.00	0.000000	0.000000	0.00	
4	0.00	0.000	0.01	0.000000	0.000000	0.00	
5	0.00	0.000	0.00	0.000000	0.000000	0.00	
6	0.00	0.000	0.00	0.000000	0.000000	0.00	
7	0.00	0.000	0.00	0.000000	0.000000	0.00	
8	0.00	0.000	0.00	0.000000	0.000000	0.00	
9	0.00	0.000	0.00	0.000000	0.000000	0.00	
10	0.00	0.000	0.00	0.000000	0.000000	0.00	
11	0.00	0.000	0.00	0.000000	0.000000	0.00	
12	0.01	0.000	0.00	0.000000	0.000000	0.00	
13	0.00	0.000	0.00	0.000000	0.017241	0.00	
14	0.00	0.000	0.00	0.000000	0.000000	0.00	
15	0.00	0.000	0.00	0.000000	0.000000	0.00	
16	0.00	0.000	0.00	0.000000	0.000000	0.00	
17	0.00	0.000	0.00	0.000000	0.000000	0.00	
18							
	Ω $\Omega\Omega$	0 010	0 00	0 000000	0 000000	0 00	
19	0.00	0.010	0.00	0.000000	0.000000	0.00	

00							
20	0.00	0.000	0.00	0.000000	0.016129	0.00	
21	0.00	0.000	0.00	0.000000	0.000000	0.00	
22	0.00	0.000	0.00	0.000000	0.000000	0.00	
23	0.00	0.000	0.00	0.000000	0.000000	0.00	
24	0.00	0.000	0.00	0.000000	0.020000	0.00	
25	0.00	0.000	0.00	0.000000	0.000000	0.00	
26	0.00	0.000	0.00	0.000000	0.010000	0.00	
27	0.00	0.020	0.00	0.000000	0.000000	0.00	
28	0.00	0.000	0.00	0.000000	0.000000	0.00	
29	0.00	0.000	0.00	0.000000	0.000000	0.00	
30	0.00	0.000	0.00	0.058824	0.000000	0.00	
31	0.00	0.000	0.00	0.000000	0.000000	0.00	
32	0.00	0.000	0.00	0.000000	0.010000	0.00	
33	0.00	0.025	0.00	0.000000	0.000000	0.00	
34	0.00	0.010	0.00	0.000000	0.000000	0.00	
35	0.00	0.000	0.00	0.000000	0.000000	0.00	
36	0.00	0.010	0.00	0.000000	0.000000	0.00	
37	0.00	0.000	0.00	0.000000	0.000000	0.00	
38	0.00	0.010	0.00	0.000000	0.040000	0.00	
	0.00						
39	0.00	0.000	0.00	0.000000	0.000000	0.00	
	Conoral Calla	ege & University	Conoral	Entertainme	nt Cormon	Restaurant	Λ.
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2 3 4 5		0.00 0.00 0.00 0.00		0 . 0 . 0 .	.00 .00 .01	0.00 0.00 0.00 0.00	
2 3 4 5 6		0.00 0.00 0.00 0.00		0 . 0 . 0 . 0 .	00 .00 .01 .01	0.00 0.00 0.00 0.00 0.00	
2 3 4 5 6 7		0.00 0.00 0.00 0.00 0.00		0 . 0 . 0 . 0 .	.00 .00 .01 .01 .00	0.00 0.00 0.00 0.00 0.00	
2 3 4 5 6 7 8		0.00 0.00 0.00 0.00 0.00 0.00			00 00 01 01 00 00	0.00 0.00 0.00 0.00 0.00 0.00	
2 3 4 5 6 7 8 9		0.00 0.00 0.00 0.00 0.00 0.00 0.00			00 00 01 01 00 00 00	0.00 0.00 0.00 0.00 0.00 0.00 0.00	
2 3 4 5 6 7 8 9 10		0.00 0.00 0.00 0.00 0.00 0.00 0.00			.00 .00 .01 .01 .00 .00 .00	0.00 0.00 0.00 0.00 0.00 0.00 0.00	
2 3 4 5 6 7 8 9 10		0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0			00 00 01 01 00 00 00 00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	
2 3 4 5 6 7 8 9 10 11		0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0			00 00 01 01 00 00 00 00 00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	
2 3 4 5 6 7 8 9 10 11 12 13		0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0			00 00 01 01 00 00 00 00 00 00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	
2 3 4 5 6 7 8 9 10 11 12 13 14		0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0			00 00 01 01 00 00 00 00 00 00 00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	
2 3 4 5 6 7 8 9 10 11 12 13 14 15		0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0			00 00 01 01 00 00 00 00 00 00 00 00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16		0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0			00 00 01 01 00 00 00 00 00 00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17		0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00			00 00 01 01 00 00 00 00 00 00 00 00 00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.00 0.00 0.00 0.00 0.00	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18		0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00			00 00 01 01 00 00 00 00 00 00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.00 0.00 0.00 0.00 0.00 0.00	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18		0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00			00 00 01 01 00 00 00 00 00 00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20		0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00			000 001 001 000 000 000 000 000 000 000	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21		0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00			00 00 01 01 00 00 00 00 00 00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.00	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22		0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00			00 00 01 01 00 00 00 00 00 00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23		0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00			00 00 01 01 00 00 00 00 00 00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22		0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00			00 00 01 01 00 00 00 00 00 00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	

26 27 28 29 30 31 32 33 34 35 36 37 38 39			0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
0 1 2 3	Gift Shop 0.00 0.00 0.00 0.00	Golf Course 0.00 0.00 0.00 0.00	Gourmet Shop 0.01 0.01 0.00 0.00	Greek Restaurant	Grocery Store \
5 5 6	0.02 0.01 0.00 0.01	0.00 0.00 0.00	0.00 0.00 0.01 0.00	0.000000 0.010000 0.000000 0.000000	0.010000 0.010000 0.000000 0.000000
7	0.00	0.00	0.00	0.000000	0.022727
8	0.01	0.00	0.01	0.010000	0.000000
9	0.00	0.00	0.00	0.010000	0.010000
10	0.01	0.00	0.01	0.000000	0.000000
11	0.00	0.00	0.00	0.000000	0.030000
12	0.00	0.00	0.02	0.000000	0.000000
13	0.00	0.00	0.00	0.000000	0.000000
14	0.00	0.00	0.00	0.000000	0.000000
15	0.00	0.00	0.00	0.000000	0.017857
16	0.01	0.00	0.01	0.010000	0.010000
17	0.01	0.00	0.00	0.000000	0.010000
18	0.01	0.00	0.01	0.000000	0.000000
19	0.00	0.00	0.00	0.000000	0.000000
20	0.00	0.00	0.00	0.000000	0.016129
21	0.00	0.00	0.00	0.000000	0.000000
22	0.00	0.00	0.00	0.000000	0.000000
23	0.00	0.00	0.01	0.010000	0.010000
24 25 26	0.00 0.01 0.00 0.00	0.00 0.01 0.00 0.00	0.00 0.00 0.00	0.010000 0.000000 0.022222 0.000000	0.010000 0.010000 0.022222 0.010000
27	0.03	0.00	0.01	0.010000	0.030000
28	0.00	0.00	0.00	0.038462	0.000000
29	0.01	0.00	0.01	0.000000	0.000000
30 31	0.00	0.00	0.00 0.01	0.000000 0.010000	0.000000 0.020000

32	0.00	0.00	0.00	0.030000	0.000000	
33	0.00	0.00	0.00	0.050000	0.000000	
34	0.01	0.00	0.00	0.020000	0.010000	
35	0.00	0.00	0.01	0.000000	0.020000	
36	0.00	0.00	0.00	0.000000	0.000000	
37	0.00	0.00	0.00	0.000000	0.022727	
38	0.00	0.00	0.02	0.000000	0.000000	
39	0.00	0.00	0.01	0.000000	0.010000	
	Gym	Gym / Fitness Center	Gym Pool	Gymnastics Gym	Harbor / Marina	\
0	0.030000	0.010000	0.00	0.00	0.000000	
1	0.030000	0.020000	0.00	0.00	0.000000	
2	0.023256	0.023256	0.00	0.00	0.000000	
3	0.010000	0.010000	0.00	0.00	0.000000	
4	0.010000	0.000000	0.00	0.00	0.000000	
5	0.030000	0.060000	0.00	0.00	0.000000	
6	0.030000	0.040000	0.00	0.00	0.000000	
7	0.022727	0.000000	0.00	0.00	0.000000	
8	0.000000	0.000000	0.00	0.00	0.000000	
9	0.040000	0.020000	0.00	0.00	0.000000	
10	0.040000	0.040000	0.00	0.00	0.000000	
11	0.000000	0.010000	0.00	0.00	0.000000	
12	0.000000	0.000000	0.00	0.00	0.000000	
13	0.000000	0.000000	0.00	0.00	0.000000	
14	0.032787	0.049180	0.00	0.00	0.016393	
15	0.000000	0.000000	0.00	0.00	0.000000	
16	0.030000	0.040000	0.00	0.00	0.000000	
17	0.020000	0.060000	0.00	0.00	0.000000	
18	0.000000	0.000000	0.00	0.00	0.000000	
19	0.00000	0.000000	0.00	0.00	0.000000	
20	0.00000	0.000000	0.00	0.00	0.000000	
21	0.00000	0.000000	0.00	0.00	0.000000	
22	0.043478	0.000000	0.00	0.00	0.000000	
23	0.020000	0.010000	0.00	0.00	0.000000	
24	0.010000	0.030000	0.00	0.00	0.000000	
25	0.00000	0.000000	0.00	0.00	0.000000	
26	0.030000	0.030000	0.00	0.00	0.000000	
27	0.010000	0.010000	0.00	0.00	0.000000	
28	0.038462	0.000000	0.00	0.00	0.000000	
29	0.00000	0.000000	0.00	0.00	0.000000	
30	0.000000	0.000000	0.00	0.00	0.058824	
31	0.020000	0.060000	0.00	0.00	0.000000	
32	0.030000	0.010000	0.01	0.00	0.000000	
33	0.012500	0.000000	0.00	0.00	0.000000	
34	0.010000	0.000000	0.00	0.00	0.000000	
35	0.000000	0.030000	0.00	0.00	0.000000	
36	0.010000	0.020000	0.00	0.00	0.000000	
37	0.022727	0.011364	0.00	0.00	0.000000	

38	0.010000	0.010000	0.00	0.00		0.00000	
39	0.060000	0.010000	0.00	0.01		0.00000	0
	Hardware Store	Hawaiian Restaurant	Health	& Beauty Ser	vice \		
0	0.00	0.000000			0.00		
1	0.00	0.000000			0.00		
2	0.00	0.000000			0.00		
3	0.00	0.000000			0.02		
4	0.00	0.000000			0.00		
5	0.00	0.000000			0.01		
6	0.00	0.000000			0.00		
7	0.00	0.000000			0.00		
8	0.00	0.000000			0.00		
9	0.00	0.000000			0.00		
10	0.00	0.000000			0.01		
11	0.00	0.000000			0.00		
12	0.00	0.000000			0.00		
13	0.00	0.000000			0.00		
14	0.00	0.000000			0.00		
15	0.00	0.000000			0.00		
16	0.00	0.000000			0.00		
17	0.00	0.000000			0.00		
18	0.00	0.000000			0.00		
19	0.00	0.000000			0.00		
20	0.00	0.016129			0.00		
21	0.00	0.000000			0.00		
22	0.00	0.000000			0.00		
23	0.00	0.010000			0.00		
24	0.00	0.000000			0.00		
25	0.00	0.000000			0.00		
26	0.00	0.010000			0.01		
27	0.00	0.000000			0.00		
28	0.00	0.000000			0.00		
29	0.00	0.000000			0.00		
30	0.00	0.000000			0.00		
31	0.00	0.000000			0.01		
32	0.00	0.000000			0.00		
33	0.00	0.012500			0.00		
34	0.00	0.000000			0.00		
35	0.00	0.000000			0.00		
36	0.00	0.000000			0.01		
37	0.00	0.000000			0.00		
38	0.01	0.000000			0.00		
39	0.00	0.000000			0.01		
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8	0.01	0.00000			00000	0.000000		
9	0.00	0.00000			50000	0.000000		
10	0.00	0.00000	0.000000		00000	0.000000		
11	0.00	0.00000	0.000000	0.00 0.0	20000	0.010000		
12	0.01	0.00000	0.000000	0.00 0.0	10000	0.000000		
13	0.00	0.01724	1 0.000000	0.00 0.0	00000	0.000000		
14	0.00	0.00000	0.000000	0.00 0.0	49180	0.016393		
15	0.00	0.00000	0.000000	0.00 0.0	00000	0.000000		
16	0.00	0.00000	0.000000	0.00 0.0	00000	0.000000		
17	0.00	0.00000	0.000000	0.00 0.0	20000	0.000000		
18	0.00	0.00000		0.00 0.0	10000	0.000000		
19	0.00	0.00000			00000	0.000000		
20	0.00	0.00000			00000	0.000000		
21	0.00	0.00000			00000	0.000000		
22	0.00	0.00000			00000	0.000000		
23	0.00	0.00000			60000	0.000000		
24	0.00	0.00000			30000	0.040000		
25	0.00	0.00000			00000	0.000000		
26	0.00	0.00000			40000	0.000000		
27	0.00	0.00000			30000	0.010000		
28	0.00	0.00000			38462	0.000000		
29	0.00	0.00000			20000	0.010000		
30	0.00	0.00000			00000	0.000000		
31	0.00	0.00000			10000	0.000000		
32								
	0.00	0.00000			20000	0.000000		
33	0.00	0.00000			37500	0.000000		
34	0.00	0.00000			40000	0.000000		
35	0.00	0.00000			30000	0.010000		
36	0.00	0.00000			00000	0.000000		
37	0.00	0.00000			00000	0.000000		
38	0.00	0.00000			00000	0.000000		
39	0.01	0.00000	0.000000	0.01 0.0	00000	0.000000		
	Hotpot Restau		e Cream Shop	Indian Restaurant		Movie Th		\
0		0.00	0.020000	0.000000			0.00	
1		0.00	0.010000	0.000000	1		0.00	
2		0.00	0.000000	0.000000	1		0.00	
3		0.00	0.050000	0.010000	ı		0.00	
4		0.03	0.030000	0.000000	1		0.01	
5		0.00	0.000000	0.010000	ı		0.00	
6		0.00	0.010000	0.000000	ı		0.00	
7		0.00	0.000000	0.000000	ı		0.00	
8		0.00	0.070000	0.000000	ı		0.00	
9		0.00	0.010000	0.010000	ı		0.00	
10		0.00	0.010000	0.010000	ı		0.00	
11		0.00	0.010000	0.000000	ı		0.00	
12		0.00	0.010000	0.030000	ı		0.01	
13		0.00	0.000000	0.034483			0.00	

4 /						
14		.00	0.000000		.000000	0.00
15	0	.00	0.000000	0 .	.000000	0.00
16		.00	0.000000	0 .	.010000	0.00
17	0	.00	0.000000	0 .	.000000	0.03
18	0	.00	0.030000	0 .	.000000	0.00
19	0	.00	0.016949	0 .	.000000	0.00
20	0	.00	0.016129	0 .	.032258	0.00
21	0	.00	0.000000	0.	.025641	0.00
22	0	.00	0.043478	0.	.000000	0.00
23			0.000000		.010000	0.00
24		.00	0.000000		.000000	0.00
25		.00	0.022222		.022222	0.00
26			0.000000		.000000	0.00
27			0.010000		.010000	0.01
28		.00	0.000000		.000000	0.00
29		.00	0.000000		.000000	0.00
30		.00	0.000000		.000000	0.00
31			0.020000		.040000	0.00
32		.00	0.000000		.010000	0.00
		.00	0.000000		.000000	
33						0.00
34		.00	0.000000		.030000	0.00
35		.00	0.000000		.000000	0.00
36		.00	0.020000		.030000	0.00
37		.00	0.000000		.011364	0.00
38	()	()()	() ()1()()()()	<i>(</i>)		
		.00	0.010000		.000000	0.00
39		.00	0.010000		.010000	0.00
	0	.00	0.020000	0.	.010000	0.00
39	0 Indie Theater	.00 Irish Pub	0.020000	0 Restaurant	.010000 Italian Restaurant	
39	O Indie Theater 0.00	.00 Irish Pub 0.00	0.020000	Restaurant 0.00	.010000 Italian Restaurant 0.030000	0.00
39 0 1	0 Indie Theater 0.00 0.00	.00 Irish Pub 0.00 0.00	0.020000	0.00 0.00 0.00	.010000 Italian Restaurant 0.030000 0.020000	0.00
39 0 1 2	0 Indie Theater 0.00 0.00 0.00	.00 Irish Pub 0.00 0.00 0.00	0.020000	0.00 Restaurant 0.00 0.00 0.00	.010000 Italian Restaurant	0.00
39 0 1 2 3	Indie Theater 0.00 0.00 0.00 0.01	.00 Irish Pub 0.00 0.00 0.00 0.00	0.020000	0.00 0.00 0.00 0.00 0.00	.010000 Italian Restaurant	0.00
39 0 1 2 3 4	Indie Theater 0.00 0.00 0.00 0.01 0.00	.00 Irish Pub 0.00 0.00 0.00 0.00 0.00	0.020000	0.00 0.00 0.00 0.00 0.01 0.00	.010000 Italian Restaurant	0.00
39 0 1 2 3 4 5	Indie Theater 0.00 0.00 0.00 0.01 0.00 0.00	.00 Irish Pub 0.00 0.00 0.00 0.00 0.00 0.00	0.020000	Restaurant 0.00 0.00 0.00 0.01 0.00 0.00	.010000 Italian Restaurant	0.00
39 0 1 2 3 4 5 6	Indie Theater 0.00 0.00 0.00 0.01 0.00 0.00 0.00	.00 Irish Pub 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.020000	Restaurant 0.00 0.00 0.00 0.01 0.00 0.00 0.00 0.0	.010000 Italian Restaurant	0.00
39 0 1 2 3 4 5 6 7	Indie Theater 0.00 0.00 0.00 0.01 0.00 0.00 0.03 0.00	.00 Irish Pub 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.020000	Restaurant 0.00 0.00 0.00 0.01 0.00 0.00 0.00 0.0	.010000 Italian Restaurant	0.00
39 0 1 2 3 4 5 6 7 8	Indie Theater 0.00 0.00 0.00 0.01 0.00 0.00 0.03 0.00 0.00	.00 Irish Pub 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.020000	Restaurant 0.00 0.00 0.00 0.01 0.00 0.00 0.00 0.0	.010000 Italian Restaurant	0.00
39 0 1 2 3 4 5 6 7 8 9	Indie Theater 0.00 0.00 0.00 0.01 0.00 0.00 0.03 0.00 0.00	.00 Irish Pub 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.020000	Restaurant 0.00 0.00 0.00 0.01 0.00 0.00 0.00 0.0	.010000 Italian Restaurant	0.00
39 0 1 2 3 4 5 6 7 8 9 10	Indie Theater 0.00 0.00 0.00 0.01 0.00 0.03 0.00 0.00	.00 Irish Pub 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.020000	Restaurant 0.00 0.00 0.00 0.01 0.00 0.00 0.00 0.0	.010000 Italian Restaurant	0.00
39 0 1 2 3 4 5 6 7 8 9 10 11	Indie Theater 0.00 0.00 0.00 0.01 0.00 0.00 0.03 0.00 0.00	.00 Irish Pub 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.020000	Restaurant 0.00 0.00 0.00 0.01 0.00 0.00 0.00 0.0	.010000 Italian Restaurant	0.00
39 0 1 2 3 4 5 6 7 8 9 10	Indie Theater 0.00 0.00 0.00 0.01 0.00 0.03 0.00 0.00	.00 Irish Pub 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.020000	Restaurant 0.00 0.00 0.00 0.01 0.00 0.00 0.00 0.0	.010000 Italian Restaurant	0.00
39 0 1 2 3 4 5 6 7 8 9 10 11	Indie Theater 0.00 0.00 0.00 0.01 0.00 0.00 0.03 0.00 0.00	.00 Irish Pub 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.020000	Restaurant 0.00 0.00 0.00 0.01 0.00 0.00 0.00 0.0	.010000 Italian Restaurant	0.00
39 0 1 2 3 4 5 6 7 8 9 10 11 12	Indie Theater 0.00 0.00 0.00 0.01 0.00 0.03 0.00 0.00	.00 Irish Pub 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.020000	Restaurant 0.00 0.00 0.00 0.01 0.00 0.00 0.00 0.0	.010000 Italian Restaurant	0.00
39 0 1 2 3 4 5 6 7 8 9 10 11 12 13	Indie Theater 0.00 0.00 0.00 0.01 0.00 0.03 0.00 0.00	.00 Irish Pub 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.020000	Restaurant 0.00 0.00 0.00 0.01 0.00 0.00 0.00 0.0	.010000 Italian Restaurant	0.00
39 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14	Indie Theater 0.00 0.00 0.00 0.01 0.00 0.00 0.03 0.00 0.00	.00 Irish Pub 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.020000	Restaurant 0.00 0.00 0.00 0.01 0.00 0.00 0.00 0.0	.010000 Italian Restaurant	0.00
39 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	Indie Theater 0.00 0.00 0.00 0.01 0.00 0.03 0.00 0.00	.00 Irish Pub 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.020000	Restaurant 0.00 0.00 0.00 0.01 0.00 0.00 0.00 0.0	.010000 Italian Restaurant	0.00
39 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Indie Theater	.00 Irish Pub 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.020000	Restaurant 0.00 0.00 0.00 0.01 0.00 0.00 0.00 0.0	.010000 Italian Restaurant	0.00

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20		0.00	0.00		0.00		032258		
21		0.00	0.00		0.00		051282		
22		0.00	0.00		0.00		000000		
23		0.00	0.00		0.00		000000		
24		0.01	0.00		0.00	0.	030000		
25		0.00	0.00		0.00	0.	000000		
26		0.00	0.00		0.00	0.	030000		
27		0.00	0.00		0.00	0.	070000		
28		0.00	0.00		0.00	0.	000000		
29		0.00	0.00		0.00	0.	030000		
30		0.00	0.00		0.00	0.	000000		
31		0.00	0.00		0.00		060000		
32		0.01	0.00		0.00		060000		
33		0.00	0.00		0.00		012500		
34		0.00	0.00		0.00		060000		
35		0.00	0.00		0.00		070000		
36		0.00	0.00		0.00		060000		
37		0.00	0.00		0.00		011364		
38		0.00	0.00		0.00		100000		
39		0.00	0.00		0.00		040000		
39		0.00	0.00		0.00	0.	040000		
	Japanese	Curry	Restaurant	Japanese	Restaurant	Jazz Club	Jewelry S	tore	\
0			0.000000		0.000000	0.000000		0.00	
1			0.000000		0.030000	0.000000		0.00	
2			0.000000		0.000000	0.023256		0.00	
3			0.000000		0.010000	0.000000		0.00	
4			0.000000		0.000000	0.000000		0.01	
5			0.000000		0.010000	0.000000		0.00	
6			0.000000		0.000000	0.000000		0.00	
7			0.000000		0.000000	0.000000		0.00	
8			0.000000		0.020000	0.010000		0.00	
9			0.010000		0.020000	0.000000		0.02	
10			0.00000		0.030000	0.000000		0.00	
11			0.000000		0.010000	0.000000		0.00	
12			0.000000		0.000000	0.010000		0.00	
13			0.000000		0.017241	0.000000		0.00	
14			0.000000		0.000000	0.000000		0.00	
15			0.000000		0.000000	0.000000		0.00	
16			0.000000		0.010000	0.000000		0.00	
17			0.000000		0.000000	0.000000		0.00	
18			0.000000		0.000000	0.000000		0.00	
19			0.000000		0.020000	0.000000		0.00	
20			0.000000		0.016129	0.000000		0.00	
21			0.025641		0.000000	0.000000		0.00	
22			0.000000		0.000000	0.000000		0.00	
23			0.000000		0.020000	0.000000		0.00	
24					^ ^ ^ ^ ^ ^				
25			0.000000		0.030000 0.000000	0.000000		0.00	

26 27 28 29 30	0 0 0	.000000 .000000 .000000 .000000	0.03 0.01 0.03 0.01 0.00	0000 0.000 8462 0.000 0000 0.000	000 000 000	0.00 0.00 0.00 0.00 0.00	
31	0	.000000	0.00	0000 0.000	000	0.00	
32	0	.000000	0.00	0.000	000	0.00	
33	0	.000000	0.01	2500 0.000	000	0.00	
34	0	.010000	0.03	0.000	000	0.00	
35	0	.000000	0.01	0000 0.010	000	0.00	
36	0	.000000	0.01	0000 0.000	000	0.00	
37	0	.000000	0.00	0000 0.000	000	0.00	
38	0	.000000	0.02	0000 0.040	000	0.00	
39	0	.000000	0.03	0.000 0.000	000	0.00	
	Jewish Restaurant	Juice Bar	Karaoke Bar	Kids Store	Korean	Restaurant	\
0	0.0000	0.010000	0.00	0.000000		0.000000	
1	0.0000	0.000000	0.01	0.000000		0.000000	
2	0.0000	0.023256	0.00	0.000000		0.000000	
3	0.0000	0.000000	0.00	0.000000		0.000000	
4	0.0000	0.000000	0.00	0.000000		0.00000	
5	0.0000	0.000000	0.00	0.010000		0.010000	
6	0.0000	0.010000	0.00	0.000000		0.000000	
7	0.0000	0.000000	0.00	0.000000		0.000000	
8	0.0000	0.010000	0.00	0.000000		0.020000	
9	0.0000	0.020000	0.00	0.000000		0.000000	
10	0.0000	0.020000	0.00	0.000000		0.000000	
11	0.0000	0.010000	0.00	0.000000		0.000000	
12	0.0000	0.000000	0.00	0.000000		0.000000	
13 14	0.0000	0.000000	0.00 0.00	0.000000		0.000000	
15	0.0000 0.0000	0.000000 0.017857	0.00	0.000000		0.000000	
16	0.0000	0.017657	0.00	0.000000		0.000000	
17	0.0000	0.000000	0.00	0.000000		0.000000	
18	0.0000	0.000000	0.00	0.000000		0.000000	
19	0.0000	0.016949	0.00	0.000000		0.000000	
20	0.0000	0.016129	0.00	0.000000		0.000000	
21	0.0000	0.025641	0.00	0.000000		0.000000	
22	0.0000	0.000000	0.00	0.000000		0.000000	
23	0.0000	0.010000	0.00	0.000000		0.000000	
24	0.0000	0.000000	0.01	0.000000		0.170000	
25	0.0000	0.000000	0.00	0.000000		0.000000	
26	0.0200	0.020000	0.00	0.000000		0.000000	
27	0.0000	0.000000	0.00	0.000000		0.000000	
28	0.0000	0.000000	0.00	0.000000		0.000000	
29	0.0000	0.000000	0.01	0.000000		0.000000	
30	0.0000	0.000000	0.00	0.000000		0.000000	
31	0.0000	0.030000	0.00	0.000000		0.000000	

32 33 34 35 36 37 38 39	0.0000 0.0125 0.0000 0.0000 0.0000 0.0000 0.0000	0.000000 0.000000 0.000000 0.030000 0.010000 0.000000 0.000000	0.00 0.00 0.02 0.00 0.00 0.00 0.00	0.000000 0.000000 0.000000 0.000000 0.011364 0.000000 0.000000		0.010000 0.000000 0.000000 0.000000 0.000000
	Kosher Restaurant	Latin American	Restaurant	Laundry	Service	\
0	0.00		0.000000		0.00	
1	0.01		0.000000		0.00	
2	0.00		0.000000		0.00	
3	0.00		0.000000		0.00	
4	0.00		0.000000		0.00	
5	0.00		0.000000		0.01	
6	0.00		0.000000		0.00	
7	0.00		0.068182		0.00	
8	0.00		0.000000		0.00	
9	0.00		0.010000		0.00	
10	0.00		0.000000		0.00	
11 12	0.00		0.010000		0.00	
13	0.00		0.000000 0.017241		0.00 0.00	
14	0.00		0.000000		0.00	
15	0.00		0.000000		0.00	
16	0.00		0.000000		0.00	
17	0.00		0.000000		0.00	
18	0.00		0.000000		0.00	
19	0.00		0.033898		0.00	
20	0.00		0.016129		0.00	
21	0.00		0.000000		0.00	
22	0.00		0.000000		0.00	
23	0.00		0.000000		0.00	
24	0.00		0.000000		0.00	
25	0.00		0.000000		0.00	
26	0.00		0.010000		0.00	
27	0.00		0.000000		0.00	
28	0.00		0.000000		0.00	
29	0.00		0.000000		0.00	
30	0.00		0.000000		0.00	
31	0.00		0.010000		0.00	
32	0.00		0.000000		0.00	
33 34	0.00		0.012500		0.00	
34	0.00		0.000000		0.00	
35 36	0.00		0.010000		0.00 0.00	
36 37	0.00		0.000000 0.022727		0.00	
51	0.00		0.022121		0.00	

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38
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                                           0.010000
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39
                  0.00
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                                           0.010000
    Lebanese Restaurant
                            Library
                                     Lingerie Store
                                                       Liquor Store
                                                                        Lounge
0
                    0.00
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1
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2
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                           0.023256
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3
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23
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24
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27
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28
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29
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30
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31
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                                              0.0100
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32
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33
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34
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35
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36
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37
                    0.00
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38
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39
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    Malay Restaurant
                          Market
                                  Martial Arts Dojo
                                                       Massage Studio
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0
                 0.00
                       0.020000
                                              0.0000
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1
                 0.00
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2	0.00	0.023256	0.0000		0.00	
3	0.00		0.0000		0.00	
4	0.02		0.0000		0.01	
5	0.00		0.0100		0.00	
6	0.00		0.0000		0.00	
7	0.00		0.0000		0.00	
8	0.00		0.0000		0.00	
9	0.00		0.0000		0.00	
10	0.01		0.0000		0.00	
11	0.00	0.000000	0.0000		0.01	
12	0.00	0.00000	0.0000		0.00	
13	0.00	0.00000	0.0000		0.00	
14	0.00	0.000000	0.0000		0.00	
15	0.00	0.000000	0.0000		0.00	
16	0.00	0.000000	0.0000		0.00	
17	0.00		0.0000		0.00	
18	0.01		0.0100		0.01	
19	0.00		0.0000		0.00	
20	0.00		0.0000		0.00	
21	0.00		0.0000		0.00	
22	0.00		0.0000		0.00	
23						
	0.00		0.0000		0.02	
24	0.00		0.0000		0.00	
25	0.00		0.0000		0.00	
26	0.00		0.0000		0.00	
27	0.00		0.0000		0.00	
28	0.00		0.0000		0.00	
29	0.00		0.0100		0.00	
30	0.00	0.000000	0.0000		0.00	
31	0.00	0.000000	0.0000		0.00	
32	0.00	0.000000	0.0000		0.00	
33	0.00	0.00000	0.0125		0.00	
34	0.00	0.00000	0.0100		0.00	
35	0.00	0.000000	0.0000		0.00	
36	0.00	0.000000	0.0000		0.00	
37	0.00		0.0000		0.00	
38	0.00		0.0000		0.00	
39	0.00		0.0000		0.00	
	Medical Center	Mediterranean	Restaurant Memor	rial Site	Men's Store	\
0	0.00		0.000000	0.02	0.01	•
1	0.00		0.010000	0.00	0.00	
2	0.00		0.00000	0.00	0.00	
3	0.00		0.000000	0.00	0.00	
3 4			0.000000	0.00		
4				0.00	0.01	
	0.00					
5	0.01		0.000000	0.00	0.00	

8	0.00		0.	000000		0.00	0.0	00	
9	0.00		0.	010000		0.00	0.0	00	
10	0.00		0.	020000		0.00	0.0	00	
11	0.00		0.	000000		0.00	0.0	00	
12	0.00		0.	010000		0.00	0.0	00	
13	0.00		0.	017241		0.00	0.0	00	
14	0.00		0.	000000		0.00	0.0	00	
15	0.00		0.	000000		0.00	0.0	00	
16	0.00		0.	000000		0.00	0.0	00	
17	0.00		0.	020000		0.00	0.0	00	
18	0.00		0.	020000		0.00	0.0	00	
19	0.00		0.	016949		0.00	0.0	00	
20	0.00		0.	000000		0.00	0.0	00	
21	0.00		0.	000000		0.00	0.0	00	
22	0.00		0.	000000		0.00	0.0	00	
23	0.00		0.	010000		0.00	0.0	01	
24	0.00		0.	000000		0.00	0.0	00	
25	0.00		0.	000000		0.00	0.0	00	
26	0.00		0.	020000		0.00	0.0	00	
27	0.00		0.	000000		0.00	0.0	00	
28	0.00		0.	000000		0.00	0.0	00	
29	0.00		0.	030000		0.00	0.0	04	
30	0.00		0.	000000		0.00	0.0	00	
31	0.00		0.	010000		0.00	0.0	00	
32	0.00		0.	000000		0.00	0.0	02	
33	0.00		0.	000000		0.00	0.0	00	
34	0.00		0.	000000		0.00	0.0	00	
35	0.00		0.	010000		0.00	0.0	00	
36	0.00		0.	010000		0.00	0.0	00	
37	0.00		0.	000000		0.00	0.0		
38	0.00		0.	010000		0.00	0.0	00	
39	0.00		0.	010000		0.00	0.0	00	
	Metro Station	Mexican	Restaurant	Middle	Eastern	Restaurant	Mini	Golf	\
0	0.000000		0.010000			0.000000		0.00	
1	0.000000		0.020000			0.000000		0.00	
2	0.000000		0.000000			0.000000		0.00	
3	0.000000		0.010000			0.000000		0.00	
4	0.000000		0.010000			0.000000		0.00	
5	0.000000		0.010000			0.000000		0.00	
6	0.000000		0.00000			0.00000		0.00	
7	0.000000		0.136364			0.000000		0.00	
8	0.000000		0.040000			0.010000		0.00	
9	0.000000		0.010000			0.00000		0.00	
10	0.000000		0.020000			0.00000		0.00	
11	0.000000		0.030000			0.000000		0.00	
12	0.000000		0.010000			0.010000		0.00	
13	0.000000		0.086207			0.000000		0.00	

4.4	0.00000	0.00000	0.00000	0 00
14	0.000000	0.00000	0.00000	0.00
15	0.000000	0.071429	0.000000	0.00
16	0.000000	0.020000	0.010000	0.00
17	0.000000	0.010000	0.000000	0.00
18	0.000000	0.010000	0.010000	0.00
19	0.000000	0.016949	0.016949	0.00
20	0.000000	0.032258	0.00000	0.00
21	0.000000	0.051282	0.00000	0.00
22	0.000000	0.00000	0.00000	0.00
23	0.000000	0.00000	0.00000	0.00
24	0.000000	0.00000	0.00000	0.00
25	0.000000	0.00000	0.00000	0.00
26	0.000000	0.00000	0.00000	0.00
27	0.000000	0.030000	0.00000	0.00
28	0.038462	0.00000	0.00000	0.00
29	0.00000	0.010000	0.00000	0.00
30	0.000000	0.00000	0.00000	0.00
31	0.000000	0.020000	0.010000	0.00
32	0.000000	0.00000	0.00000	0.01
33	0.000000	0.050000	0.00000	0.00
34	0.000000	0.010000	0.00000	0.00
35	0.000000	0.010000	0.00000	0.00
36	0.000000	0.010000	0.020000	0.00
37	0.000000	0.022727	0.00000	0.00
.38	α $\alpha\alpha\alpha\alpha\alpha\alpha$	0 000000	Λ $\Lambda \Lambda \Lambda$	() ()()
38	0.000000	0.000000	0.000000	0.00
38 39	0.000000	0.000000	0.000000	0.00
	0.000000	0.030000	0.000000	0.00
39	0.000000 Miscellaneous Shop	0.030000 Mobile Phone Shop	0.000000 Modern European Restaurant	
39	0.000000 Shop 0.00	0.030000 Mobile Phone Shop 0.000000	0.000000 Modern European Restaurant 0.00	0.00
39 0 1	0.000000 Shop 0.00 0.00	0.030000 Mobile Phone Shop 0.000000 0.000000	0.000000 Modern European Restaurant 0.00 0.00	0.00
39 0 1 2	0.000000 Miscellaneous Shop 0.00 0.00 0.00	0.030000 Mobile Phone Shop 0.000000 0.000000 0.000000	0.000000 Modern European Restaurant 0.00 0.00 0.00	0.00
39 0 1 2 3	0.000000 Shop 0.00 0.00 0.00 0.00 0.00	0.030000 Mobile Phone Shop 0.000000 0.000000 0.000000 0.0000000	0.000000 Modern European Restaurant	0.00
39 0 1 2 3 4	0.000000 Shop 0.00 0.00 0.00 0.00 0.00 0.00	0.030000 Mobile Phone Shop 0.000000 0.000000 0.000000 0.000000 0.000000	0.000000 Modern European Restaurant 0.00 0.00 0.00 0.00 0.00	0.00
39 0 1 2 3 4 5	0.000000 Shop 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.030000 Mobile Phone Shop	0.000000 Modern European Restaurant 0.00 0.00 0.00 0.00 0.00 0.00	0.00
39 0 1 2 3 4 5 6	0.000000 Miscellaneous Shop 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.030000 Mobile Phone Shop	0.000000 Modern European Restaurant 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00
39 0 1 2 3 4 5 6 7	0.000000 Miscellaneous Shop 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.030000 Mobile Phone Shop	0.000000 Modern European Restaurant 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.00
39 0 1 2 3 4 5 6 7 8	0.000000 Miscellaneous Shop 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.030000 Mobile Phone Shop	0.000000 Modern European Restaurant 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.00
39 0 1 2 3 4 5 6 7 8 9	0.000000 Shop 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.030000 Mobile Phone Shop	0.000000 Modern European Restaurant 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.00
39 0 1 2 3 4 5 6 7 8 9 10	0.000000 Miscellaneous Shop 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.030000 Mobile Phone Shop	0.000000 Modern European Restaurant 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.00
39 0 1 2 3 4 5 6 7 8 9 10 11	0.000000 Miscellaneous Shop 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.030000 Mobile Phone Shop	0.000000 Modern European Restaurant 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.00
39 0 1 2 3 4 5 6 7 8 9 10 11 12	0.000000 Miscellaneous Shop 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.030000 Mobile Phone Shop	0.000000 Modern European Restaurant 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.00
39 0 1 2 3 4 5 6 7 8 9 10 11 12 13	0.000000 Miscellaneous Shop 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.030000 Mobile Phone Shop	0.000000 Modern European Restaurant 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.00
39 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14	0.000000 Miscellaneous Shop 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.030000 Mobile Phone Shop	0.000000 Modern European Restaurant 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.00
39 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	0.000000 Miscellaneous Shop 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.030000 Mobile Phone Shop	0.000000 Modern European Restaurant 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.00
39 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	0.000000 Miscellaneous Shop 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.030000 Mobile Phone Shop	0.000000 Modern European Restaurant 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.00
39 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	0.000000 Miscellaneous Shop 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.030000 Mobile Phone Shop	0.000000 Modern European Restaurant 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.00
39 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	0.000000 Miscellaneous Shop 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.030000 Mobile Phone Shop	0.000000 Modern European Restaurant 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.00

20	0.00	0.000000		0.00	
21	0.00	0.000000		0.00	
22	0.00	0.000000		0.00	
23	0.01	0.000000		0.00	
24	0.00	0.000000		0.00	
25	0.00	0.000000		0.00	
26	0.00	0.000000		0.00	
27	0.00	0.000000		0.00	
28	0.00	0.000000		0.00	
29	0.01	0.000000		0.00	
30	0.00	0.000000		0.00	
31	0.00	0.000000		0.00	
32	0.00	0.000000		0.00	
33	0.00	0.000000		0.00	
34	0.00	0.000000		0.00	
35	0.00	0.000000		0.00	
36	0.00	0.000000		0.00	
37	0.00	0.034091		0.00	
38	0.00	0.000000		0.00	
39	0.00	0.000000		0.00	
39	0.00	0.00000		0.00	
	Molecular Gastronomy	Restaurant Monume	nt / Landmark	Moroccan Re	staurant \
0	J	0.00	0.010000		0.00
1		0.00	0.000000		0.00
2		0.00	0.000000		0.00
3		0.00	0.000000		0.00
4		0.00	0.000000		0.00
5		0.01	0.010000		0.00
6		0.00	0.000000		0.00
7		0.00	0.000000		0.00
8		0.00	0.000000		0.01
9		0.00	0.020000		0.00
10		0.00	0.000000		0.00
11		0.00	0.000000		0.00
12		0.00	0.000000		0.00
13		0.00	0.017241		0.00
14		0.00	0.000000		0.00
15		0.00	0.000000		0.00
16		0.00	0.000000		0.00
17		0.00	0.000000		0.00
18		0.00	0.000000		0.00
19		0.00	0.000000		0.00
20		0.00	0.000000		0.00
21		0.00	0.000000		0.00
22		0.00	0.000000		0.00
23		0.00	0.000000		0.00
24		0.00	0.000000		0.00
25		0.00	0.022222		0.00
		3.00	J. J. Z.		5.55

26 27 28 29 30 31 32 33 34 35 36 37 38 39			0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	000 000 000 000 000 000 000 000 000	
	Movie Theater	Museum	Music School	Music Venue	Nail Salon	. \
0	0.01	0.00	0.000000	0.000000	0.00	ı
1	0.00	0.01	0.000000	0.000000	0.01	
2	0.00	0.00	0.000000	0.023256	0.00	ı
3	0.00	0.00	0.000000	0.000000	0.00	ı
4	0.00	0.01	0.000000	0.010000	0.01	
5	0.00	0.00	0.000000	0.000000	0.01	
6	0.01	0.00	0.010000	0.000000	0.00	ı
7	0.00	0.00	0.000000	0.000000	0.00	ı
8	0.00	0.00	0.000000	0.000000	0.00	ı
9	0.00	0.01	0.000000	0.000000	0.00	ı
10	0.00	0.00	0.000000	0.000000	0.00	ı
11	0.00	0.00	0.000000	0.010000	0.00	ı
12	0.00	0.00	0.000000	0.000000	0.00	ı
13	0.00	0.00	0.000000	0.000000	0.00	ı
14	0.00	0.00	0.016393	0.000000	0.00	ı
15	0.00	0.00	0.000000	0.000000	0.00	ı
16	0.00	0.00	0.000000	0.000000	0.01	
17	0.01	0.00	0.000000	0.000000	0.00	ı
18	0.00	0.00	0.000000	0.000000	0.00	ı
19	0.00	0.00	0.000000	0.016949	0.00	ı
20	0.00	0.00	0.000000	0.000000	0.00	ı
21	0.00	0.00	0.025641	0.000000	0.00	ı
22	0.00	0.00	0.000000	0.000000	0.00	ı
23	0.00	0.00	0.000000	0.000000	0.00	ı
24	0.00	0.00	0.000000	0.000000	0.00	ı
25	0.00	0.00	0.000000	0.000000	0.00	
26	0.00	0.01	0.000000	0.000000	0.00	
27	0.00	0.00	0.000000	0.010000	0.00	
28	0.00	0.00	0.000000	0.000000	0.00	
29	0.00	0.00	0.000000	0.000000	0.00	
30	0.00	0.00	0.000000	0.000000	0.00	
31	0.00	0.00	0.000000	0.000000	0.00	l

52	0.00	0.00	0.000000	0.0100	0.	00	
33	0.00	0.00	0.000000	0.0000	00 0.	00	
34	0.00	0.01	0.000000	0.0000	00 0.	00	
35	0.00		0.000000	0.0000		00	
36	0.01		0.000000	0.0000		01	
37	0.00		0.000000	0.0000		00	
38	0.00		0.000000	0.0000		00	
39	0.00	0.00	0.000000	0.0000	00 0.	00	
	New American	Restaurant	Newsstand	Nightclub	Non-Profit	Noodle House	\
0		0.000000	0.00	0.000000	0.00	0.00	
1		0.010000	0.00	0.000000	0.00	0.00	
2		0.000000	0.00	0.000000	0.00	0.00	
3		0.010000	0.00	0.040000	0.00	0.01	
4		0.010000	0.00	0.000000	0.00	0.03	
5		0.010000	0.00	0.000000	0.00	0.00	
6		0.010000	0.00	0.000000	0.00	0.00	
7				0.000000			
		0.000000	0.00		0.00	0.00	
8		0.000000	0.00	0.000000	0.00	0.00	
9		0.010000	0.00	0.000000	0.00	0.00	
10		0.030000	0.00	0.000000	0.00	0.00	
11		0.000000	0.00	0.010000	0.00	0.00	
12		0.010000	0.00	0.000000	0.00	0.00	
13		0.000000	0.00	0.000000	0.00	0.00	
14		0.000000	0.00	0.000000	0.00	0.00	
15		0.000000	0.00	0.000000	0.00	0.00	
16		0.000000	0.00	0.000000	0.01	0.00	
17		0.000000	0.00	0.000000	0.00	0.00	
18		0.000000	0.01	0.000000	0.00	0.01	
19		0.000000	0.00	0.016949	0.00	0.00	
20		0.000000	0.00	0.000000	0.00	0.00	
21		0.000000	0.00	0.000000	0.00	0.00	
22		0.000000	0.00	0.000000	0.00	0.00	
23		0.010000	0.00	0.000000	0.00	0.00	
24		0.010000	0.00	0.000000	0.00	0.00	
25		0.022222	0.00	0.000000	0.00	0.00	
26		0.010000	0.00	0.000000	0.00	0.00	
27		0.010000	0.00	0.000000	0.00	0.00	
28		0.000000	0.00	0.000000	0.00	0.00	
29		0.000000	0.00	0.000000	0.00	0.00	
30		0.000000					
			0.00	0.000000	0.00	0.00	
31		0.000000	0.00	0.000000	0.00	0.00	
32		0.010000	0.00	0.000000	0.00	0.00	
33		0.000000	0.00	0.000000	0.00	0.00	
34		0.000000	0.00	0.000000	0.00	0.03	
35		0.000000	0.00	0.000000	0.00	0.00	
36		0.010000	0.00	0.000000	0.00	0.00	
37		0.011364	0.00	0.000000	0.00	0.00	

32 0.00 0.00 0.000000 0.010000 0.00

38 39		0.050 0.010		0.01	0.000		0.00		.00
	Office	Opera House	Optical	Shop	Organic	Grocery	Other N	ightlife	\
0	0.00	0.00	-r	0.00	6	0.00		0.000000	,
1	0.00	0.00		0.00		0.00		0.000000	
2	0.00	0.00		0.00		0.00		0.000000	
3	0.01	0.00		0.00		0.00		0.000000	
4	0.00	0.00		0.02		0.01		0.000000	
5	0.00	0.00		0.00		0.00		0.000000	
6	0.00	0.00		0.00		0.00		0.000000	
7	0.00	0.00		0.00		0.00		0.000000	
8	0.00	0.00		0.00		0.01		0.000000	
9	0.00	0.00		0.00		0.00		0.000000	
10	0.00	0.00		0.00		0.00		0.000000	
11	0.00	0.00		0.01		0.00		0.000000	
12	0.00	0.00		0.01		0.00		0.000000	
13	0.00	0.00		0.00		0.00		0.000000	
14	0.00	0.00		0.00		0.00		0.000000	
15	0.00	0.00		0.00		0.00		0.000000	
16	0.00	0.00		0.00		0.00		0.000000	
17	0.00	0.03		0.00		0.00		0.000000	
18	0.00	0.00		0.00		0.00		0.000000	
19	0.00	0.00		0.00		0.00		0.000000	
20	0.00	0.00		0.00		0.00		0.000000	
21	0.00	0.00		0.00		0.00	(0.025641	
22	0.00	0.00		0.00		0.00		0.000000	
23	0.00	0.00		0.01		0.00	(0.000000	
24	0.00	0.00		0.00		0.00	(0.000000	
25	0.00	0.00		0.00		0.00	(0.000000	
26	0.00	0.00		0.00		0.00	(0.000000	
27	0.00	0.00		0.00		0.00	(0.000000	
28	0.00	0.00		0.00		0.00	(0.000000	
29	0.00	0.00		0.01		0.00	(0.000000	
30	0.00	0.00		0.00		0.00	(0.000000	
31	0.00	0.00		0.00		0.00	(0.000000	
32	0.00	0.00		0.00		0.00	(0.000000	
33	0.00	0.00		0.00		0.00	(0.000000	
34	0.00	0.00		0.00		0.00	(0.000000	
35	0.00	0.00		0.01		0.00	(0.000000	
36	0.00	0.00		0.00		0.00	(0.000000	
37	0.00	0.00		0.00		0.00	(0.000000	
38	0.00	0.00		0.00		0.00	(0.000000	
39	0.00	0.00		0.00		0.00	(0.000000	
	Outdoor	Sculpture 0	Outdoors	& Recre	eation l	Paella Re	staurant	\	
0		0.000000		0.0	00000		0.00		
1		0.000000		0.0	000000		0.00		

2	0.000000	0.00000	0.00	
3	0.000000	0.00000	0.01	
4	0.000000	0.00000	0.00	
5	0.000000	0.00000	0.00	
6	0.000000	0.000000	0.00	
7	0.000000	0.00000	0.00	
8	0.000000	0.00000	0.00	
9	0.000000	0.00000	0.00	
10	0.000000	0.00000	0.00	
11	0.000000	0.00000	0.00	
12	0.00000	0.00000	0.00	
13	0.00000	0.000000	0.00	
14	0.00000	0.000000	0.00	
15	0.000000	0.00000	0.00	
16	0.000000	0.00000	0.00	
17	0.000000	0.00000	0.00	
18	0.000000	0.00000	0.00	
19	0.000000	0.00000	0.00	
20	0.00000	0.00000	0.00	
21	0.000000	0.00000	0.00	
22	0.000000	0.00000	0.00	
23	0.000000	0.00000	0.00	
24	0.000000	0.00000	0.00	
25	0.022222	0.00000	0.00	
26	0.00000	0.00000	0.00	
27	0.00000	0.00000	0.00	
28	0.00000	0.038462	0.00	
29	0.00000	0.00000	0.00	
30	0.00000	0.00000	0.00	
31	0.00000	0.00000	0.00	
32	0.00000	0.00000	0.00	
33	0.00000	0.00000	0.00	
34	0.00000	0.00000	0.01	
35	0.00000	0.00000	0.00	
36	0.00000	0.00000	0.00	
37	0.00000	0.00000	0.00	
38	0.00000	0.00000	0.00	
39	0.00000	0.000000	0.00	
	Pakistani Restaurant	Paper / Office Supplies Store	Park	\
0	0.000000	0.000000	0.070000	
1	0.000000	0.000000	0.000000	
2	0.000000	0.000000	0.023256	
3	0.000000	0.000000	0.010000	
4	0.000000	0.010000	0.000000	
5	0.000000	0.000000	0.030000	
6	0.000000	0.000000	0.010000	
7	0.000000	0.000000	0.000000	

8	0.00000		0.000000	0.010000		
9	0.00000		0.000000	0.030000		
10	0.00000		0.010000	0.000000		
11	0.000000		0.000000	0.020000		
12	0.000000		0.000000	0.000000		
13	0.000000		0.000000	0.017241		
14	0.016393		0.000000	0.032787		
15	0.000000		0.000000	0.032707		
16	0.000000		0.010000	0.000000		
17				0.030000		
	0.000000 0.000000		0.000000			
18			0.000000	0.000000		
19	0.000000		0.000000	0.016949		
20	0.000000		0.000000	0.016129		
21	0.000000		0.000000	0.025641		
22	0.000000		0.000000	0.000000		
23	0.000000		0.000000	0.030000		
24	0.000000		0.000000	0.000000		
25	0.000000		0.000000	0.066667		
26	0.000000		0.000000	0.000000		
27	0.000000		0.000000	0.000000		
28	0.00000		0.000000	0.076923		
29	0.000000		0.000000	0.000000		
30	0.00000		0.000000	0.117647		
31	0.00000		0.000000	0.010000		
32	0.00000		0.000000	0.040000		
33	0.00000		0.000000	0.062500		
34	0.00000		0.000000	0.030000		
35	0.00000		0.010000	0.010000		
36	0.00000		0.000000	0.000000		
37	0.00000		0.011364	0.022727		
38	0.00000		0.000000	0.030000		
39	0.00000		0.000000	0.020000		
	Performing Arts Venue	Persian Restaurant	Peruvian	Restaurant	Pet Café	\
0	0.010000	0.00		0.000000	0.000000	
1	0.00000	0.00		0.000000	0.000000	
2	0.00000	0.00		0.000000	0.000000	
3	0.000000	0.00		0.000000	0.000000	
4	0.000000	0.00		0.000000	0.000000	
5	0.000000	0.00		0.000000	0.000000	
6	0.000000	0.00		0.010000	0.000000	
7	0.000000	0.00		0.000000	0.000000	
8	0.000000	0.00		0.000000	0.010000	
9	0.010000	0.00		0.000000	0.000000	
10	0.000000	0.00		0.000000	0.000000	
11	0.000000	0.00		0.000000	0.000000	
12	0.000000	0.00		0.000000	0.000000	
13	0.000000	0.00		0.000000	0.000000	
13	0.000000	0.00		0.000000	0.000000	

				0.00			
14		0.000000		0.00		0.000000	0.000000
15		0.000000		0.00		0.000000	0.000000
16		0.000000		0.00		0.000000	0.000000
17		0.030000		0.00		0.000000	0.000000
18		0.000000		0.00		0.000000	0.000000
19		0.016949		0.00		0.000000	0.016949
20		0.000000		0.00		0.016129	0.000000
21		0.000000		0.00		0.000000	0.000000
22		0.000000		0.00		0.000000	0.000000
23		0.000000		0.00		0.000000	0.000000
24		0.010000		0.00		0.000000	0.000000
25		0.000000		0.00		0.000000	0.000000
26		0.000000		0.00		0.010000	0.000000
27		0.000000		0.00		0.000000	0.000000
28		0.000000		0.00		0.000000	0.000000
29		0.000000		0.00		0.000000	0.000000
30		0.000000		0.00		0.000000	0.000000
31		0.000000		0.01		0.000000	0.000000
32		0.010000		0.00		0.000000	0.000000
33		0.000000		0.00		0.000000	0.000000
34		0.000000		0.00		0.000000	0.000000
35		0.000000		0.00		0.000000	0.000000
36		0.000000		0.00		0.010000	0.000000
37		0.000000		0.00		0.000000	0.000000
38		0.010000		0.00		0.000000	0.000000
39		0.000000		0.00		0.010000	0.000000
	Dat Carria						
	Pet Service	Pet Store	Pharmacy	Piano Bar	Pie Shop	Pier \	
0	0.000000	Pet Store 0.010000	Pharmacy 0.000000	Piano Bar 0.00	Pie Shop 0.00	Pier \ 0.00	
0 1			•		-		
	0.000000	0.010000	0.000000	0.00 0.00	0.00	0.00 0.00	
1	0.000000	0.010000 0.010000	0.000000	0.00	0.00	0.00	
1 2	0.000000 0.000000 0.000000 0.000000	0.010000 0.010000 0.000000 0.010000	0.000000 0.000000 0.000000 0.000000	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	
1 2 3 4	0.000000 0.000000 0.000000 0.000000	0.010000 0.010000 0.000000 0.010000 0.000000	0.000000 0.000000 0.000000 0.000000 0.010000	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	
1 2 3 4 5	0.000000 0.000000 0.000000 0.000000 0.000000	0.010000 0.010000 0.000000 0.010000 0.000000 0.000000	0.000000 0.000000 0.000000 0.000000 0.010000 0.000000	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	
1 2 3 4	0.000000 0.000000 0.000000 0.000000	0.010000 0.010000 0.000000 0.010000 0.000000 0.000000	0.000000 0.000000 0.000000 0.000000 0.010000 0.000000	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	
1 2 3 4 5 6 7	0.000000 0.000000 0.000000 0.000000 0.000000	0.010000 0.010000 0.000000 0.010000 0.000000 0.000000 0.0022727	0.000000 0.000000 0.000000 0.010000 0.000000 0.000000 0.022727	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.01	0.00 0.00 0.00 0.00 0.00 0.00 0.00	
1 2 3 4 5 6 7 8	0.000000 0.000000 0.000000 0.000000 0.000000	0.010000 0.010000 0.000000 0.010000 0.000000 0.000000 0.022727 0.000000	0.000000 0.000000 0.000000 0.000000 0.010000 0.000000 0.0022727 0.000000	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00	
1 2 3 4 5 6 7 8	0.000000 0.000000 0.000000 0.000000 0.000000	0.010000 0.010000 0.000000 0.010000 0.000000 0.000000 0.022727 0.000000 0.010000	0.000000 0.000000 0.000000 0.000000 0.010000 0.000000 0.022727 0.000000 0.000000	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.01 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	
1 2 3 4 5 6 7 8 9 10	0.000000 0.000000 0.000000 0.000000 0.000000	0.010000 0.010000 0.000000 0.010000 0.000000 0.000000 0.022727 0.000000 0.010000 0.000000	0.000000 0.000000 0.000000 0.010000 0.010000 0.000000 0.022727 0.000000 0.010000	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.01 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	
1 2 3 4 5 6 7 8 9 10	0.000000 0.000000 0.000000 0.000000 0.000000	0.010000 0.010000 0.000000 0.010000 0.000000 0.000000 0.022727 0.000000 0.010000 0.000000	0.000000 0.000000 0.000000 0.010000 0.000000 0.000000 0.022727 0.000000 0.010000 0.010000	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.01 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	
1 2 3 4 5 6 7 8 9 10 11 12	0.000000 0.000000 0.000000 0.000000 0.000000	0.010000 0.010000 0.000000 0.010000 0.000000 0.000000 0.022727 0.000000 0.010000 0.000000 0.000000	0.000000 0.000000 0.000000 0.000000 0.010000 0.000000 0.022727 0.000000 0.010000 0.010000 0.000000	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.01 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	
1 2 3 4 5 6 7 8 9 10 11 12 13	0.000000 0.000000 0.000000 0.000000 0.000000	0.010000 0.010000 0.000000 0.010000 0.000000 0.000000 0.022727 0.000000 0.010000 0.000000 0.000000 0.000000	0.000000 0.000000 0.000000 0.010000 0.010000 0.000000 0.022727 0.000000 0.010000 0.010000 0.000000 0.000000	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.01 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	
1 2 3 4 5 6 7 8 9 10 11 12 13 14	0.000000 0.000000 0.000000 0.000000 0.000000	0.010000 0.010000 0.000000 0.010000 0.000000 0.000000 0.022727 0.000000 0.010000 0.000000 0.000000 0.000000 0.000000	0.000000 0.000000 0.000000 0.000000 0.010000 0.000000 0.022727 0.000000 0.010000 0.010000 0.000000 0.000000 0.000000	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.01 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	0.000000 0.000000 0.000000 0.000000 0.000000	0.010000 0.010000 0.000000 0.010000 0.000000 0.000000 0.0022727 0.000000 0.010000 0.000000 0.000000 0.000000 0.000000	0.000000 0.000000 0.000000 0.000000 0.010000 0.000000 0.022727 0.000000 0.010000 0.010000 0.000000 0.000000 0.000000 0.000000	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.01 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	0.000000 0.000000 0.000000 0.000000 0.000000	0.010000 0.010000 0.000000 0.010000 0.000000 0.000000 0.022727 0.000000 0.010000 0.000000 0.000000 0.000000 0.000000	0.000000 0.000000 0.000000 0.000000 0.010000 0.000000 0.022727 0.000000 0.010000 0.010000 0.000000 0.000000 0.000000 0.000000	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.01 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	0.000000 0.000000 0.000000 0.000000 0.000000	0.010000 0.010000 0.000000 0.010000 0.000000 0.000000 0.022727 0.000000 0.010000 0.000000 0.000000 0.000000 0.000000	0.000000 0.000000 0.000000 0.000000 0.010000 0.000000 0.022727 0.000000 0.010000 0.010000 0.000000 0.000000 0.000000 0.000000	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.01 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	0.000000 0.000000 0.000000 0.000000 0.000000	0.010000 0.010000 0.000000 0.010000 0.000000 0.000000 0.022727 0.000000 0.010000 0.000000 0.000000 0.000000 0.000000	0.000000 0.000000 0.000000 0.000000 0.010000 0.000000 0.022727 0.000000 0.010000 0.010000 0.000000 0.000000 0.000000 0.000000	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.01 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	

20	0.000000	0.016129	0.000000	0	.00	0.00	0.00		
21	0.000000	0.000000	0.000000	0	.00	0.00	0.00		
22	0.000000	0.000000	0.043478	0	.00	0.00	0.00		
23	0.000000	0.000000	0.000000	0	.00	0.00	0.00		
24	0.000000	0.000000	0.000000	0	.00	0.00	0.00		
25	0.000000	0.000000	0.022222	0	.00	0.00	0.00		
26	0.000000	0.000000	0.000000	0	.00	0.00	0.00		
27	0.000000	0.000000	0.000000	0	.00	0.00	0.00		
28	0.000000	0.000000	0.000000	0	.00	0.00	0.00		
29	0.000000	0.000000	0.000000	0	.00	0.00	0.00		
30	0.058824	0.000000	0.000000		.00	0.00	0.00		
31	0.000000	0.000000	0.000000		.00	0.00	0.00		
32	0.000000	0.000000	0.000000		.00	0.00	0.01		
33	0.000000	0.012500	0.000000		.00	0.00	0.00		
34	0.000000	0.000000	0.000000		.00	0.00	0.00		
35	0.000000	0.010000	0.000000		.00	0.00	0.00		
36	0.000000	0.010000	0.000000		.00	0.00	0.00		
37	0.000000	0.011364	0.011364		.00	0.00	0.00		
38	0.000000	0.000000	0.000000		.01	0.00	0.00		
39	0.000000	0.000000	0.010000	0	.00	0.00	0.00		
				_					
•	Pilates Studi			yground	Plaza		e Place	Pool	\
0	0.0			.010000	0.020000		0.00	0.000000	
1	0.0			.010000	0.000000		0.00	0.000000	
2	0.0			.000000	0.000000		0.00	0.000000	
3	0.0			.000000	0.000000		0.01	0.000000	
4	0.0			.010000	0.000000		0.00	0.000000	
5	0.0			.010000	0.010000		0.00	0.000000	
6 7	0.0			.000000	0.000000		0.01 0.00	0.000000	
	0.0			.022727	0.000000			0.000000	
8 9	0.0			.000000	0.000000		0.00	0.000000	
9 10	0.0			.000000	0.000000		0.00	0.000000	
	0.0			.020000	0.000000		0.00	0.000000	
11 12	0.0			.020000	0.000000		0.00	0.000000	
13	0.0			.000000	0.000000		0.00	0.000000	
14	0.0			.000000	0.000000		0.00	0.000000	
15	0.0			.017857	0.000000		0.00	0.000000	
16	0.0			.010000	0.000000		0.00	0.000000	
17	0.0			.010000	0.050000		0.00	0.000000	
18	0.0			.000000	0.000000		0.00	0.000000	
19	0.0			.000000	0.000000		0.00	0.000000	
20	0.0			.032258	0.016129		0.00	0.000000	
21	0.0			.000000	0.000000		0.00	0.000000	
	5.0				3.333300	•	5.00	3.00000	

0.000000

0.000000

0.000000

0.000000

0.000000

0.010000

0.000000 0.000000

0.00

0.00

0.00

0.00

0.000000

0.000000

0.000000

0.000000

0.043478

0.010000

0.010000

0.022222

22

23

24

25

0.00

0.01

0.00

0.00

26	0.00	0.0	10000	0.000000	0.0	10000	0.00	0.000000
27	0.02	0.0	20000	0.000000	0.00	00000	0.00	0.000000
28	0.00	0.0	38462	0.038462	0.00	00000	0.00	0.000000
29	0.01	0.0	10000	0.000000	0.00	00000	0.00	0.000000
30	0.00	0.0	00000	0.058824	0.00	00000	0.00	0.000000
31	0.01	0.0	10000	0.000000	0.00	00000	0.00	0.000000
32	0.00	0.0	10000	0.010000	0.00	00000	0.01	0.000000
33	0.00	0.0	50000	0.000000	0.0	12500	0.00	0.000000
34	0.00	0.0	10000	0.000000	0.02	20000	0.00	0.000000
35	0.00	0.0	20000	0.010000	0.0	10000	0.00	0.000000
36	0.00	0.0	10000	0.000000	0.00	00000	0.00	0.000000
37	0.00	0.0	34091	0.000000	0.0	11364	0.00	0.011364
38	0.00	0.0	20000	0.010000	0.00	00000	0.00	0.000000
39	0.00	0.0	40000	0.000000	0.00	00000	0.00	0.010000
	Portuguese Resta	urant	Pub	Public	Art	Ramen	Restaurant	\
0		0.00	0.010000	0.010	000		0.000000	
1		0.00	0.010000	0.000	000		0.010000	
_			0 00000	0 000	0-0		0 00000	

	Portuguese	Restaurant	Pub	Public Art	Ramen Restaurant	\
0		0.00	0.010000	0.010000	0.000000	
1		0.00	0.010000	0.000000	0.010000	
2		0.00	0.000000	0.023256	0.000000	
3		0.00	0.000000	0.000000	0.000000	
4		0.00	0.000000	0.000000	0.010000	
5		0.00	0.000000	0.000000	0.000000	
6		0.00	0.010000	0.000000	0.000000	
7		0.00	0.000000	0.000000	0.000000	
8		0.00	0.000000	0.000000	0.020000	
9		0.00	0.010000	0.000000	0.000000	
10		0.01	0.010000	0.000000	0.000000	
11		0.00	0.010000	0.000000	0.000000	
12		0.00	0.000000	0.000000	0.000000	
13		0.00	0.017241	0.000000	0.000000	
14		0.00	0.016393	0.000000	0.000000	
15		0.00	0.000000	0.000000	0.000000	
16		0.00	0.000000	0.000000	0.000000	
17		0.00	0.000000	0.000000	0.000000	
18		0.00	0.000000	0.000000	0.000000	
19		0.00	0.000000	0.000000	0.033898	
20		0.00	0.000000	0.000000	0.000000	
21		0.00	0.000000	0.000000	0.025641	
22		0.00	0.000000	0.000000	0.000000	
23		0.00	0.000000	0.000000	0.010000	
24		0.00	0.000000	0.000000	0.000000	
25		0.00	0.022222	0.000000	0.000000	
26		0.00	0.020000	0.000000	0.010000	
27		0.00	0.000000	0.000000	0.000000	
28		0.00	0.000000	0.000000	0.000000	
29		0.00	0.000000	0.000000	0.000000	
30		0.00	0.000000	0.000000	0.000000	
31		0.00	0.010000	0.000000	0.000000	

32 33 34 35 36 37 38 39		0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.000000 0.000000 0.010000 0.000000 0.020000 0.000000 0.020000	0.00 0.00 0.00 0.00	00000 00000 00000 00000 00000 00000	0.000000 0.000000 0.020000 0.000000 0.010000 0.011364 0.000000 0.000000
0	Record Shop 0.00	Recreatio	n Center 0.00	Rental	Car Location	
1	0.00		0.00		0.000000	
2	0.00		0.00		0.000000	
3	0.00		0.00		0.000000	
4	0.01		0.00		0.000000	
5	0.00		0.00		0.000000	
6	0.00		0.00		0.000000	
7	0.00		0.00		0.000000	
8	0.01		0.00		0.000000	
9	0.00		0.00		0.000000	
10	0.00		0.00		0.000000)
11	0.00		0.00		0.000000)
12	0.01		0.00		0.000000)
13	0.00		0.00		0.000000)
14	0.00		0.00		0.000000)
15	0.00		0.00		0.000000)
16	0.00		0.00		0.000000)
17	0.00		0.01		0.000000	
18	0.00		0.00		0.000000	
19	0.00		0.00		0.000000	
20	0.00		0.00		0.000000	
21	0.00		0.00		0.000000	
22	0.00		0.00		0.000000	
23	0.00		0.00		0.000000	
24	0.00		0.00		0.000000	
25	0.00		0.00		0.000000	
26 27	0.00 0.00		0.00 0.00		0.000000	
28	0.00		0.00		0.000000	
29	0.00		0.00		0.000000	
30	0.00		0.00		0.000000	
31	0.00		0.00		0.000000	
32	0.00		0.00		0.000000	
33	0.00		0.00		0.000000	
34	0.00		0.00		0.000000	
35	0.00		0.00		0.000000	
36	0.00		0.00		0.000000	
37	0.00		0.00		0.011364	:

38 39	0.00		0.00		0.0000			
	Residential	Building	(Apartment	c / Condo)	Resort	Rest Area	Restaurant	\
0				0.000000	0.00	0.000000	0.000000	
1				0.000000	0.00	0.000000	0.010000	
2				0.000000	0.00	0.000000	0.000000	
3				0.000000	0.00	0.000000	0.000000	
4				0.000000	0.00	0.000000	0.010000	
5				0.000000	0.00	0.000000	0.000000	
6				0.010000	0.00	0.000000	0.000000	
7				0.000000	0.00	0.000000	0.022727	
8				0.000000	0.00	0.000000	0.000000	
9				0.000000	0.00	0.000000	0.000000	
10				0.000000	0.00	0.000000	0.000000	
11				0.000000	0.00	0.000000	0.040000	
12				0.000000	0.00	0.000000	0.000000	
13				0.000000	0.00	0.000000	0.000000	
14				0.016393	0.00	0.000000	0.032787	
15				0.000000	0.00	0.000000	0.035714	
16				0.000000	0.00	0.000000	0.000000	
17				0.000000	0.00	0.000000	0.000000	
18				0.000000	0.00	0.000000	0.000000	
19				0.000000	0.00	0.000000	0.000000	
20				0.000000	0.00	0.000000	0.000000	
21				0.000000	0.00	0.000000	0.000000	
22				0.000000	0.00	0.000000	0.000000	
23				0.000000	0.00	0.000000	0.000000	
24				0.000000	0.00	0.000000	0.020000	
25				0.000000	0.00	0.000000	0.022222	
26				0.000000	0.01	0.000000	0.020000	
27				0.000000	0.00	0.000000	0.000000	
28				0.038462	0.00	0.000000	0.000000	
29				0.000000	0.00	0.000000	0.000000	
30				0.000000	0.00	0.000000	0.000000	
31				0.000000	0.00	0.000000	0.010000	
32				0.000000	0.00	0.000000	0.000000	
33				0.000000	0.00	0.000000	0.025000	
34				0.010000	0.00	0.000000	0.010000	
35				0.000000	0.00	0.000000	0.000000	
36				0.000000	0.00	0.000000	0.010000	
37				0.000000	0.00	0.011364	0.011364	
38				0.000000	0.00	0.000000	0.000000	
39				0.000000	0.00	0.000000	0.000000	
	Rock Climbin		Rock Club	Roof Deck	Russian	Restaurant		\
0		0.00	0.000000	0.00		0.00		
1		0.00	0.000000	0.00		0.00	0.00	

2		0.00	0.000000	0.00	0.00	0.00	
3		0.00	0.000000	0.00	0.00	0.00	
4		0.00	0.000000	0.01	0.00	0.00	
5		0.00	0.000000	0.00	0.00	0.00	
6		0.01	0.000000	0.01	0.00	0.00	
7		0.00	0.000000	0.00	0.00	0.00	
8		0.00	0.000000	0.00	0.00	0.00	
9		0.00	0.000000	0.00	0.00	0.00	
10		0.00	0.000000	0.00	0.01	0.00	
11		0.00	0.000000	0.01	0.00	0.00	
12		0.00	0.010000	0.00	0.00	0.00	
13		0.00	0.000000	0.00	0.00	0.00	
14		0.00	0.000000	0.00	0.00	0.00	
15		0.00	0.000000	0.00	0.00	0.00	
			0.000000				
16		0.00		0.00	0.00	0.00	
17		0.00	0.000000	0.01	0.00	0.00	
18		0.00	0.010000	0.00	0.00	0.00	
19		0.00	0.016949	0.00	0.00	0.00	
20		0.00	0.000000	0.00	0.00	0.00	
21		0.00	0.000000	0.00	0.00	0.00	
22		0.00	0.000000	0.00	0.00	0.00	
23		0.00	0.000000	0.00	0.00	0.00	
24		0.00	0.000000	0.00	0.00	0.00	
25		0.00	0.000000	0.00	0.00	0.00	
26		0.00	0.000000	0.00	0.00	0.00	
27		0.00	0.020000	0.00	0.00	0.01	
28		0.00	0.000000	0.00	0.00	0.00	
29		0.00	0.000000	0.00	0.00	0.00	
30		0.00	0.000000	0.00	0.00	0.00	
31		0.00	0.000000	0.00	0.00	0.00	
32		0.00	0.000000	0.01	0.00	0.00	
33		0.00	0.000000	0.00	0.00	0.00	
34		0.00	0.000000	0.01	0.00	0.01	
35		0.00	0.000000	0.00	0.00	0.00	
36		0.00	0.000000	0.00	0.00	0.00	
37		0.00	0.000000	0.00	0.00	0.00	
38		0.00	0.000000	0.00	0.00	0.00	
39		0.00	0.000000	0.00	0.00	0.00	
	Salad Place	Salon /	Barbershop	Sandwich Place	Scenic Lookout	School	\
0	0.010000		0.0000	0.020000	0.010000	0.000000	
1	0.000000		0.0100	0.000000	0.010000	0.000000	
2	0.000000		0.0000	0.000000	0.000000	0.000000	
3	0.000000		0.0000	0.010000	0.010000	0.000000	
4	0.000000		0.0300	0.020000	0.000000	0.000000	
5	0.000000		0.0000	0.030000	0.000000	0.000000	
6	0.000000		0.0000	0.020000	0.000000	0.000000	
7	0.000000		0.0000	0.022727	0.000000	0.000000	
	-		_			_	

_	0.00000	0.0000	0 000000	0 000000	0 000000	
8	0.00000	0.0000	0.000000	0.000000	0.000000	
9	0.010000	0.0000	0.020000	0.000000	0.000000	
10	0.010000	0.0300	0.010000	0.000000	0.000000	
11	0.000000	0.0100	0.010000	0.000000	0.000000	
12	0.000000	0.0100	0.020000	0.000000	0.000000	
13	0.000000	0.0000	0.034483	0.000000	0.034483	
14	0.016393	0.0000	0.016393	0.016393	0.000000	
15	0.000000	0.0000	0.000000	0.000000	0.000000	
16	0.010000	0.0100	0.000000	0.000000	0.000000	
17	0.010000	0.0000	0.000000	0.000000	0.010000	
		0.0300	0.030000	0.000000	0.000000	
18	0.010000					
19	0.000000	0.0000	0.033898	0.000000	0.000000	
20	0.00000	0.0000	0.00000	0.000000	0.000000	
21	0.00000	0.0000	0.000000	0.000000	0.000000	
22	0.000000	0.0000	0.043478	0.000000	0.000000	
23	0.010000	0.0000	0.020000	0.000000	0.000000	
24	0.010000	0.000	0.010000	0.020000	0.000000	
25	0.022222	0.000	0.044444	0.000000	0.000000	
26	0.000000	0.0300	0.040000	0.000000	0.000000	
27	0.000000	0.0000	0.020000	0.000000	0.000000	
28	0.000000	0.0000	0.076923	0.000000	0.038462	
29	0.010000	0.0200	0.000000	0.000000	0.000000	
30	0.00000	0.0000	0.000000	0.000000	0.000000	
31	0.000000	0.0100	0.000000	0.000000	0.000000	
32	0.020000	0.0000	0.000000	0.020000	0.000000	
33	0.000000	0.0125	0.025000	0.000000	0.000000	
34	0.00000	0.0000	0.010000	0.000000	0.000000	
35	0.010000	0.0000	0.010000	0.000000	0.000000	
36	0.010000	0.0000	0.000000	0.000000	0.010000	
37	0.000000	0.0000	0.034091	0.011364	0.000000	
38	0.000000	0.0100	0.000000	0.010000	0.000000	
39	0.000000	0.0100	0.020000	0.000000	0.000000	
	Sculpture Garden	Seafood Restaurant	Shanghai Re	staurant Ship	ping Store	\
0	0.01	0.010000	J	0.0000	0.000000	
1	0.00	0.000000		0.0000	0.000000	
2	0.00	0.046512		0.0000	0.000000	
3	0.00	0.030000		0.0000	0.000000	
4	0.00	0.000000		0.0100	0.000000	
5		0.000000				
	0.00			0.0000	0.000000	
6	0.00	0.020000		0.0000	0.000000	
7	0.00	0.000000		0.0000	0.000000	
8	0.00	0.020000		0.0000	0.000000	
9	0.00	0.010000		0.0000	0.000000	
10	0.00	0.010000		0.0000	0.000000	
11	0.00	0.000000		0.0000	0.000000	
12	0.00	0.030000		0.0000	0.000000	
13	0.00	0.017241		0.0000	0.000000	

14	(0.00	0.00000		0.0000	0.000000
15	(0.00	0.017857		0.0000	0.000000
16	(0.00	0.00000		0.0000	0.000000
17	(0.00	0.010000		0.0000	0.000000
18	(0.00	0.030000		0.0000	0.000000
19	(0.00	0.00000		0.0000	0.000000
20	(0.00	0.00000		0.0000	0.000000
21		0.00	0.051282		0.0000	0.000000
22		0.00	0.043478		0.0000	0.000000
23		0.00	0.000000		0.0000	0.000000
24		0.00	0.010000		0.0000	0.000000
25		0.00	0.022222		0.0000	0.000000
26		0.00	0.010000		0.0100	0.000000
27		0.00	0.010000		0.0000	0.000000
28		0.00	0.000000		0.0000	0.000000
29		0.00	0.020000		0.0000	0.000000
30		0.00	0.000000		0.0000	0.000000
31		0.00	0.010000		0.0000	0.000000
32		0.00	0.010000		0.0000	0.000000
33		0.00	0.012500		0.0125	0.000000
34		0.00	0.020000		0.0000	0.000000
35		0.01	0.010000		0.0000	0.000000
36		0.00	0.020000		0.0000	0.000000
37		0.00	0.011364		0.0000	0.011364
38		0.00	0.010000		0.0000	0.000000
39		0.00	0.000000		0.0000	0.000000
			0.00000		0.0000	0.000000
	Shoe Repair	Shoe Store	Shopping Mall	Skate Park	Skating Rink	\
0	0.00	0.000000	0.020000	0.00	0.00	
1	0.00	0.010000	0.000000	0.00	0.00	
2	0.00	0.000000	0.000000	0.00	0.00	
3	0.01	0.000000	0.000000	0.00	0.00	
4	0.00	0.010000	0.000000	0.00	0.00	
5	0.00	0.000000	0.000000	0.00	0.00	
6	0.00	0.000000	0.000000	0.00	0.00	
7	0.00	0.000000	0.000000	0.00	0.00	
8	0.00	0.000000	0.000000	0.00	0.00	
9	0.00	0.010000	0.000000	0.00	0.00	
10	0.00	0.000000	0.000000	0.00	0.00	
11	0.00	0.000000	0.000000	0.00	0.00	
12	0.00	0.010000	0.000000	0.00	0.00	
13	0.00	0.000000	0.000000	0.00	0.00	
14	0.00	0.000000	0.000000	0.00	0.00	
15	0.00	0.000000	0.000000	0.00	0.00	
16	0.00	0.000000	0.000000	0.00	0.00	
17	0.00	0.000000	0.000000	0.00	0.00	
18	0.00	0.000000	0.000000	0.00	0.00	
		0.016949	0.000000	0.00	0.00	
19	0.00	0.010343	0.00000	0.00	0.00	

20	0.00	0.000000	0.000000	0.00	0.00	
21	0.00	0.000000	0.000000	0.00	0.00	
22	0.00	0.043478	0.043478	0.00	0.00	
23	0.00	0.000000	0.000000	0.00	0.01	
24	0.00	0.000000	0.000000	0.00	0.00	
25	0.00	0.000000	0.000000	0.00	0.00	
26	0.00	0.000000	0.000000	0.00	0.00	
27	0.00	0.000000	0.000000	0.00	0.00	
28	0.00	0.000000	0.000000	0.00	0.00	
29	0.00	0.040000	0.000000	0.00	0.00	
30	0.00	0.000000	0.000000	0.00	0.00	
31	0.00	0.000000	0.00000			
				0.00	0.00	
32	0.00	0.000000	0.000000	0.01	0.00	
33	0.00	0.000000	0.000000	0.00	0.00	
34	0.00	0.000000	0.000000	0.00	0.00	
35	0.00	0.010000	0.000000	0.00	0.00	
36	0.00	0.000000	0.000000	0.00	0.00	
37	0.00	0.022727	0.00000	0.00	0.00	
38	0.00	0.000000	0.000000	0.00	0.00	
39	0.00	0.000000	0.000000	0.00	0.00	
	Smoke Shop	Snack Place	Soba Restaurant	Social Club	Soup Place	\
0	0.000000	0.00	0.00	0.00	0.00	
1	0.000000	0.00	0.00	0.00	0.00	
2	0.000000	0.00	0.00	0.00	0.00	
3	0.000000	0.00	0.00	0.00	0.00	
4	0.000000	0.01	0.00	0.00	0.00	
5	0.000000	0.00	0.00	0.00	0.00	
6	0.010000	0.00	0.00	0.00	0.00	
7	0.000000	0.00	0.00	0.00	0.00	
8	0.000000	0.00	0.00	0.00	0.01	
9	0.000000	0.00	0.00	0.00	0.00	
10	0.000000	0.00	0.00	0.00	0.00	
11	0.000000	0.00	0.00	0.01	0.00	
12	0.000000	0.01	0.00	0.00	0.00	
13	0.017241	0.00	0.00	0.00	0.00	
14	0.016393	0.00	0.00	0.00	0.00	
15	0.000000	0.00	0.00	0.00	0.00	
16	0.010000	0.00	0.00	0.00	0.00	
17	0.000000	0.00	0.00	0.00	0.00	
18	0.000000	0.01	0.00	0.00	0.00	
19	0.000000	0.00	0.00	0.00	0.00	
20	0.000000	0.00	0.00	0.00	0.00	
21	0.000000	0.00	0.00	0.00	0.00	
22	0.000000	0.00	0.00	0.00	0.00	
23	0.010000	0.00	0.00	0.00	0.00	
24	0.00000	0.00	0.00	0.00	0.00	
2 4 25	0.000000	0.01				
∠0	0.00000	0.00	0.00	0.00	0.00	

26	0.000000	0.00	0.00	0.00	0.00
27	0.000000	0.00	0.00	0.00	0.00
28	0.000000	0.00	0.00	0.00	0.00
29	0.000000	0.00	0.00	0.00	0.00
30	0.000000	0.00	0.00	0.00	0.00
31	0.010000	0.00	0.00	0.00	0.00
32	0.000000	0.00	0.00	0.00	0.00
33	0.000000	0.00	0.00	0.00	0.00
34	0.000000	0.00	0.01	0.00	0.00
35	0.000000	0.01	0.00	0.00	0.00
36	0.000000	0.00	0.00	0.00	0.00
37	0.000000	0.00	0.00	0.00	0.00
38	0.000000	0.00	0.00	0.00	0.00
39	0.000000	0.00	0.00	0.00	0.00

	South	American	Restaurant	South	Indian	Restaurant
0			0.00			0.00
1			0.00			0.00
2			0.00			0.00
3			0.00			0.00
4			0.00			0.00
5			0.00			0.00
6			0.00			0.00
7			0.00			0.00
8			0.00			0.00
9			0.00			0.00
10			0.00			0.00
11			0.00			0.00
12			0.00			0.00
13			0.00			0.00
14			0.00			0.00
15			0.00			0.00
16			0.00			0.00
17			0.00			0.00
18			0.00			0.00
19			0.00			0.00
20			0.00			0.00
21			0.00			0.00
22			0.00			0.00
23			0.00			0.00
24			0.01			0.00
25			0.00			0.00
26			0.00			0.00
27			0.00			0.00
28			0.00			0.00
29			0.00			0.00
30			0.00			0.00
31			0.00			0.00

32 33 34 35 36 37 38 39		0.00 0.00 0.00 0.00 0.00 0.00 0.00		0.00 0.00 0.00 0.00 0.01 0.00 0.00			
0 1	Southern / Soul Food	0.000000 0.000000	Spa 0.000000 0.030000	Spanish	Restaurant 0.000000 0.000000	Speakeasy 0.000000 0.000000	\
2 3		0.023256 0.000000	0.023256 0.000000		0.000000	0.000000	
4		0.000000	0.020000		0.010000	0.00000	
5		0.000000	0.030000		0.00000	0.000000	
6		0.000000	0.030000		0.00000	0.000000	
7		0.000000	0.022727		0.022727	0.000000	
8		0.000000	0.010000		0.010000	0.030000	
9		0.000000	0.020000		0.000000	0.000000	
10		0.000000	0.020000		0.000000	0.010000	
11		0.000000	0.020000		0.000000	0.000000	
12		0.000000	0.020000		0.000000	0.000000	
13		0.000000	0.000000		0.017241	0.000000	
14 15		0.000000	0.016393		0.000000 0.035714	0.000000	
16		0.000000	0.000000		0.033714	0.000000	
17		0.000000	0.000000		0.000000	0.000000	
18		0.000000	0.010000		0.000000	0.000000	
19		0.000000	0.000000		0.000000	0.016049	
20		0.000000	0.016129		0.000000	0.000000	
21		0.000000	0.000000		0.025641	0.000000	
22		0.000000	0.000000		0.000000	0.000000	
23		0.000000	0.030000		0.000000	0.000000	
24		0.000000	0.000000		0.000000	0.000000	
25		0.000000	0.022222		0.000000	0.000000	
26		0.000000	0.030000		0.010000	0.020000	
27		0.010000	0.010000		0.000000	0.010000	
28		0.000000	0.000000		0.000000	0.000000	
29		0.000000	0.020000		0.010000	0.000000	
30		0.000000	0.000000		0.000000	0.000000	
31		0.000000	0.000000		0.000000	0.000000	
32		0.000000	0.040000		0.00000	0.000000	
33		0.000000	0.025000		0.025000	0.000000	
34		0.000000	0.020000		0.010000	0.000000	
35		0.000000	0.020000		0.000000	0.000000	
36		0.010000	0.000000		0.000000	0.010000	
37		0.000000	0.000000		0.011364	0.000000	

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                                                Sports Bar
                                                             Sports Club
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    Spiritual Center
                        Sporting Goods Shop
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    Steakhouse
                 Street Art
                               Strip Club
                                            Supermarket
                                                           Supplement Shop
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1
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2	0.000000	0.000000	0.00	0.000000	0.000000	
3	0.010000	0.000000	0.00	0.000000	0.000000	
4	0.000000	0.000000	0.00	0.00000	0.000000	
5	0.000000	0.000000	0.01	0.00000	0.000000	
6	0.000000	0.000000	0.00	0.010000	0.000000	
7	0.022727	0.022727	0.00	0.00000	0.000000	
8	0.000000	0.000000	0.00	0.000000	0.000000	
9	0.040000	0.000000	0.00	0.000000	0.000000	
10	0.000000	0.000000	0.00	0.000000	0.000000	
11	0.010000	0.000000	0.00	0.000000	0.010000	
12	0.00000	0.000000	0.00	0.000000	0.000000	
13	0.000000	0.000000	0.00	0.000000	0.000000	
14	0.000000	0.000000	0.00	0.016393	0.000000	
15		0.000000				
	0.000000		0.00	0.017857	0.000000	
16	0.020000	0.000000	0.00	0.000000	0.000000	
17	0.010000	0.000000	0.00	0.000000	0.000000	
18	0.000000	0.000000	0.00	0.010000	0.000000	
19	0.000000	0.000000	0.00	0.000000	0.000000	
20	0.000000	0.000000	0.00	0.000000	0.000000	
21	0.000000	0.000000	0.00	0.025641	0.000000	
22	0.043478	0.000000	0.00	0.00000	0.043478	
23	0.040000	0.000000	0.00	0.00000	0.000000	
24	0.010000	0.000000	0.00	0.00000	0.000000	
25	0.000000	0.000000	0.00	0.022222	0.000000	
26	0.020000	0.000000	0.00	0.00000	0.000000	
27	0.010000	0.010000	0.00	0.00000	0.000000	
28	0.000000	0.000000	0.00	0.038462	0.000000	
29	0.000000	0.000000	0.00	0.010000	0.000000	
30	0.000000	0.000000	0.00	0.00000	0.000000	
31	0.010000	0.000000	0.01	0.00000	0.000000	
32	0.020000	0.000000	0.00	0.00000	0.000000	
33	0.000000	0.000000	0.00	0.00000	0.012500	
34	0.040000	0.000000	0.00	0.00000	0.000000	
35	0.010000	0.000000	0.00	0.00000	0.000000	
36	0.010000	0.010000	0.00	0.000000	0.000000	
37	0.000000	0.000000	0.00	0.022727	0.011364	
38	0.000000	0.000000	0.00	0.010000	0.000000	
39	0.000000	0.000000	0.00	0.000000	0.000000	
	a 1. D +	+ a :	D + +	a h D h	+ m D1	١
^	Sushi Restau		Restaurant	Szechuan Restaurar		١
0	0.01		0.00	0.00000		
1	0.01		0.00	0.00000		
2	0.00		0.00	0.00000		
3	0.01		0.00	0.00000		
4	0.00		0.00	0.00000		
5	0.02		0.00	0.00000		
6	0.00		0.00	0.00000		
7	0.00	0000	0.00	0.00000	0.022727	

8	0.000000)	0.01		0.00	0000	0.000000	
9	0.000000)	0.00		0.00	0000	0.000000	
10	0.010000)	0.00		0.00	0000	0.000000	
11	0.010000)	0.00		0.00	0000	0.010000	
12	0.040000		0.00		0.00	0000	0.000000	
13	0.034483		0.00		0.00		0.000000	
14	0.000000		0.00		0.00		0.000000	
15	0.000000		0.00		0.00		0.000000	
16	0.050000		0.00		0.00		0.010000	
17	0.000000		0.00		0.00		0.000000	
18	0.000000		0.00		0.00		0.000000	
19	0.000000		0.01		0.00		0.000000	
20	0.016129		0.00		0.03		0.000000	
21	0.025641		0.00		0.00		0.000000	
22	0.000000		0.00		0.00		0.000000	
23	0.020000		0.00		0.01		0.000000	
24	0.010000		0.00		0.00		0.000000	
25	0.000000		0.00		0.00		0.000000	
26	0.010000		0.00		0.00		0.020000	
27	0.030000		0.00		0.00		0.010000	
28	0.000000	1	0.00		0.00		0.000000	
29	0.000000)	0.01		0.00	0000	0.000000	
30	0.000000)	0.00		0.00	0000	0.000000	
31	0.020000)	0.00		0.01	0000	0.000000	
32	0.010000)	0.00		0.00	0000	0.000000	
33	0.025000)	0.00		0.00	0000	0.012500	
34	0.040000)	0.00		0.00	0000	0.000000	
35	0.020000)	0.00		0.00	0000	0.000000	
36	0.020000)	0.00		0.00	0000	0.000000	
37	0.011364	:	0.00		0.00	0000	0.000000	
38	0.020000		0.00		0.00		0.010000	
39	0.040000		0.00		0.00		0.000000	
	Tailor Shop Tai	wanese	Restaurant	Tapas	Restaurant	Tatt	oo Parlor	\
0	0.000000		0.00	-	0.000000		0.00	
1	0.000000		0.00		0.000000		0.00	
2	0.000000		0.00		0.023256		0.00	
3	0.000000		0.00		0.020000		0.00	
4	0.000000		0.01		0.000000		0.00	
5	0.000000		0.00		0.000000		0.00	
6	0.000000		0.00		0.000000		0.00	
7	0.000000		0.00		0.000000		0.00	
8	0.010000		0.00		0.010000		0.00	
9	0.000000		0.01		0.000000		0.00	
9 10								
	0.000000		0.00		0.010000		0.00	
11	0.000000		0.00		0.000000		0.00	
12	0.000000		0.00		0.010000		0.00	
13	0.000000		0.00		0.000000		0.00	

14 15						
15	0.00000	00	0.00	0.000000	0.00	
	0.00000	00	0.00	0.000000	0.00	
16	0.00000		0.00	0.000000	0.00	
17	0.00000		0.00	0.000000	0.00	
18	0.00000		0.00	0.000000	0.00	
19	0.00000		0.00	0.000000	0.00	
20	0.00000		0.00	0.000000	0.00	
21	0.00000		0.00	0.000000	0.00	
22	0.00000		0.00	0.000000	0.00	
23	0.01000		0.00	0.000000	0.00	
24	0.00000		0.00	0.000000	0.01	
25	0.00000	00	0.00	0.000000	0.00	
26	0.01000	00	0.00	0.000000	0.00	
27	0.00000	00	0.00	0.010000	0.01	
28	0.00000	00	0.00	0.000000	0.00	
29	0.00000	00	0.00	0.010000	0.01	
30	0.00000	00	0.00	0.000000	0.00	
31	0.00000	00	0.00	0.000000	0.00	
32	0.00000		0.00	0.00000	0.00	
33	0.00000		0.00	0.000000	0.00	
34	0.00000		0.00	0.000000	0.00	
35	0.00000		0.00	0.010000	0.00	
36	0.00000		0.00	0.000000	0.00	
37	0.00000		0.00	0.022727	0.00	
38	0.00000		0.00	0.000000	0.00	
39	0.00000	00	0.00	0.000000	0.00	
	Tea Room	Tech Startup	Tennis Court	Tennis Stadium	Thai Restaurant	\
0	Tea Room	Tech Startup 0.00	Tennis Court	Tennis Stadium 0.000000	Thai Restaurant	\
0	0.00	0.00	0.000000	0.000000	0.000000	\
1	0.00 0.00	0.00	0.000000 0.000000	0.000000	0.000000 0.010000	\
1 2	0.00 0.00 0.00	0.00 0.00 0.00	0.000000 0.000000 0.000000	0.000000 0.000000 0.000000	0.000000 0.010000 0.000000	\
1 2 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.000000 0.000000 0.000000 0.000000	0.000000 0.000000 0.000000 0.000000	0.000000 0.010000 0.000000 0.000000	\
1 2 3 4	0.00 0.00 0.00 0.00 0.01	0.00 0.00 0.00 0.00 0.00	0.000000 0.000000 0.000000 0.000000	0.000000 0.000000 0.000000 0.000000	0.000000 0.010000 0.000000 0.000000 0.000000	\
1 2 3 4 5	0.00 0.00 0.00 0.00 0.01 0.00	0.00 0.00 0.00 0.00 0.00	0.000000 0.000000 0.000000 0.000000 0.000000	0.000000 0.000000 0.000000 0.000000 0.000000	0.000000 0.010000 0.000000 0.000000 0.000000	\
1 2 3 4 5 6	0.00 0.00 0.00 0.00 0.01 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.000000 0.000000 0.000000 0.000000 0.000000	0.000000 0.000000 0.000000 0.000000 0.000000	0.000000 0.010000 0.000000 0.000000 0.000000 0.000000	\
1 2 3 4 5 6 7	0.00 0.00 0.00 0.00 0.01 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.000000 0.000000 0.000000 0.000000 0.000000	0.000000 0.000000 0.000000 0.000000 0.000000	0.000000 0.010000 0.000000 0.000000 0.000000 0.010000 0.045455	\
1 2 3 4 5 6 7 8	0.00 0.00 0.00 0.00 0.01 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.000000 0.000000 0.000000 0.000000 0.000000	0.000000 0.000000 0.000000 0.000000 0.000000	0.000000 0.010000 0.000000 0.000000 0.000000 0.010000 0.045455 0.000000	\
1 2 3 4 5 6 7 8	0.00 0.00 0.00 0.00 0.01 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.000000 0.000000 0.000000 0.000000 0.000000	0.000000 0.000000 0.000000 0.000000 0.000000	0.000000 0.010000 0.000000 0.000000 0.000000 0.010000 0.045455 0.000000	\
1 2 3 4 5 6 7 8 9 10	0.00 0.00 0.00 0.00 0.01 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.000000 0.000000 0.000000 0.000000 0.000000	0.000000 0.000000 0.000000 0.000000 0.000000	0.000000 0.010000 0.000000 0.000000 0.000000 0.010000 0.045455 0.000000 0.010000	\
1 2 3 4 5 6 7 8 9 10	0.00 0.00 0.00 0.01 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.000000 0.000000 0.000000 0.000000 0.000000	0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000	0.000000 0.010000 0.000000 0.000000 0.000000 0.010000 0.045455 0.000000 0.010000 0.010000 0.010000	\
1 2 3 4 5 6 7 8 9 10 11	0.00 0.00 0.00 0.00 0.01 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.000000 0.000000 0.000000 0.000000 0.000000	0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000	0.000000 0.010000 0.000000 0.000000 0.000000 0.010000 0.045455 0.000000 0.010000 0.010000 0.020000 0.000000	\
1 2 3 4 5 6 7 8 9 10 11 12 13	0.00 0.00 0.00 0.00 0.01 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.000000 0.000000 0.000000 0.000000 0.000000	0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000	0.000000 0.010000 0.000000 0.000000 0.000000 0.010000 0.045455 0.000000 0.010000 0.010000 0.010000 0.010000 0.010000	\
1 2 3 4 5 6 7 8 9 10 11 12 13 14	0.00 0.00 0.00 0.00 0.01 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.000000 0.000000 0.000000 0.000000 0.000000	0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000	0.000000 0.010000 0.000000 0.000000 0.000000 0.010000 0.045455 0.000000 0.010000 0.010000 0.020000 0.000000 0.000000 0.000000 0.000000	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	0.00 0.00 0.00 0.00 0.01 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.000000 0.000000 0.000000 0.000000 0.000000 0.010000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000	0.000000 0.000000 0.000000 0.000000 0.000000	0.000000 0.010000 0.000000 0.000000 0.000000 0.010000 0.045455 0.000000 0.010000 0.010000 0.020000 0.000000 0.000000 0.032787 0.000000	
1 2 3 4 5 6 7 8 9 10 11 12 13 14	0.00 0.00 0.00 0.00 0.01 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.000000 0.000000 0.000000 0.000000 0.000000	0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000	0.000000 0.010000 0.000000 0.000000 0.000000 0.010000 0.045455 0.000000 0.010000 0.010000 0.020000 0.000000 0.000000 0.000000 0.000000	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	0.00 0.00 0.00 0.00 0.01 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.000000 0.000000 0.000000 0.000000 0.000000 0.010000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000	0.000000 0.000000 0.000000 0.000000 0.000000	0.000000 0.010000 0.000000 0.000000 0.000000 0.010000 0.045455 0.000000 0.010000 0.010000 0.020000 0.000000 0.000000 0.032787 0.000000	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	0.00 0.00 0.00 0.00 0.01 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.00 0.00 0.00 0.00 0.00	0.000000 0.000000 0.000000 0.000000 0.000000	0.000000 0.000000 0.000000 0.000000 0.000000	0.000000 0.010000 0.000000 0.000000 0.000000 0.010000 0.045455 0.000000 0.010000 0.010000 0.010000 0.020000 0.000000 0.000000 0.032787 0.000000 0.020000	

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               Theme Park Ride / Attraction
                                                Thrift / Vintage Store
     Theater
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26 27 28 29 30 31 32 33 34 35 36 37 38 39	0.000000 0.010000 0.000000 0.000000 0.000000 0.000000			0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00		0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
0	Tibetan	Restaurant 0.00	Tiki Bar 0.00	Tourist Informatio	0.00	\
1		0.00	0.00		0.00	
2 3		0.00	0.00 0.00		0.00	
4		0.00	0.00		0.00	
5		0.00	0.00		0.00	
6		0.00	0.00		0.00	
7		0.00	0.00		0.00	
8		0.00	0.00		0.00	
9		0.00	0.00		0.00	
10		0.00	0.00		0.00	
11		0.00	0.01		0.00	
12 13		0.00	0.00 0.00		0.00	
14		0.00	0.00		0.00	
15		0.00	0.00		0.00	
16		0.00	0.00		0.00	
17		0.00	0.00		0.00	
18		0.00	0.00		0.00	
19		0.00	0.00		0.00	
20		0.00	0.00		0.00	
21		0.00	0.00		0.00	
22		0.00	0.00		0.00	
23 24		0.00	0.00 0.00		0.00	
2 4 25		0.00	0.00		0.00	
26		0.00	0.00		0.00	
27		0.01	0.00		0.00	
28		0.00	0.00		0.00	
29		0.00	0.00		0.00	
30		0.00	0.00		0.00	
31		0.00	0.00		0.00	

32 33 34 35 36		0.0 0.0 0.0 0.0	0.0 0.0 0.0	0 0		0.00 0.00 0.01 0.00 0.00
37		0.0		0		0.00
38		0.0				0.00
39		0.0	0.0	0		0.00
	Toy / Game	Store	Track	Trail	Tree	Turkish Restaurant \
0	10y / damo	0.00	0.000000	0.000000	0.01	0.00
1		0.00	0.000000	0.000000	0.00	0.01
2		0.00	0.000000	0.000000	0.00	0.00
3		0.00	0.000000	0.000000	0.00	0.00
4		0.00	0.000000	0.000000	0.00	0.00
5		0.01	0.000000	0.000000	0.00	0.00
6		0.00	0.000000	0.000000	0.00	0.00
7		0.00	0.000000	0.000000	0.00	0.00
8		0.00	0.000000	0.000000	0.00	0.00
9		0.00	0.000000	0.000000	0.00	0.00
10		0.01	0.000000	0.000000	0.00	0.00
11		0.00	0.000000	0.000000	0.00	0.00
12		0.00	0.000000	0.000000	0.00	0.00
13		0.00	0.000000	0.000000	0.00	0.00
14		0.00	0.000000	0.000000	0.00	0.00
15		0.00	0.000000	0.017857	0.00	0.00
16		0.01	0.000000	0.000000	0.00	0.02
17		0.00	0.000000	0.000000	0.00	0.00
18		0.00	0.000000	0.000000	0.00	0.00
19		0.00	0.016949	0.000000	0.00	0.00
20		0.00	0.000000	0.000000	0.00	0.00
21		0.00	0.000000	0.000000	0.00	0.00
22		0.00	0.000000	0.000000	0.00	0.00
23		0.00	0.000000	0.000000	0.00	0.00
24		0.00	0.000000	0.000000	0.00	0.00
25		0.00	0.000000	0.000000	0.00	0.00
26		0.00	0.000000	0.000000	0.00	0.00
27		0.00	0.000000	0.000000	0.00	0.00
28		0.00	0.000000	0.000000	0.00	0.00
29		0.00	0.000000	0.000000	0.00	0.00
30		0.00	0.000000	0.000000	0.00	0.00
31		0.00	0.000000	0.000000	0.00	0.00
32		0.00	0.000000	0.000000	0.00	0.00
33		0.00	0.000000	0.012500	0.00	0.00
34		0.00	0.000000	0.010000	0.00	0.01
35		0.00	0.000000	0.000000	0.00	0.01
36		0.01	0.000000	0.010000	0.00	0.01
37		0.00	0.000000	0.000000	0.00	0.00

```
38
                 0.00 0.000000 0.000000
                                                                    0.00
                                             0.00
39
                 0.00 0.000000 0.000000
                                             0.00
                                                                    0.00
    Udon Restaurant
                       Used Bookstore
                                        Vegetarian / Vegan Restaurant
                0.00
0
                                  0.00
                                                                    0.00
                0.00
1
                                  0.00
                                                                    0.01
2
                0.00
                                  0.00
                                                                    0.00
3
                0.00
                                  0.00
                                                                    0.01
4
                0.00
                                  0.00
                                                                    0.00
5
                0.00
                                  0.00
                                                                    0.00
                0.00
6
                                  0.00
                                                                    0.01
7
                0.00
                                  0.00
                                                                    0.00
8
                0.00
                                  0.01
                                                                    0.03
9
                0.00
                                  0.00
                                                                    0.02
10
                0.00
                                  0.00
                                                                    0.03
                0.00
                                                                    0.00
11
                                  0.00
12
                0.01
                                  0.00
                                                                    0.01
13
                0.00
                                  0.00
                                                                    0.00
14
                0.00
                                  0.00
                                                                    0.00
                0.00
                                                                    0.00
15
                                  0.00
16
                0.00
                                  0.00
                                                                    0.01
17
                0.00
                                  0.00
                                                                    0.00
18
                0.00
                                  0.00
                                                                    0.01
19
                0.00
                                  0.00
                                                                    0.00
20
                0.00
                                  0.00
                                                                    0.00
21
                0.00
                                  0.00
                                                                    0.00
22
                0.00
                                  0.00
                                                                    0.00
23
                0.00
                                  0.00
                                                                    0.00
24
                0.00
                                  0.00
                                                                    0.02
25
                0.00
                                  0.00
                                                                    0.00
26
                0.00
                                  0.00
                                                                    0.01
                                                                    0.00
27
                0.01
                                  0.00
28
                0.00
                                  0.00
                                                                    0.00
29
                0.00
                                  0.00
                                                                    0.02
30
                0.00
                                  0.00
                                                                    0.00
31
                0.00
                                  0.00
                                                                    0.01
32
                0.00
                                  0.00
                                                                    0.01
33
                0.00
                                  0.00
                                                                    0.00
                0.00
34
                                  0.00
                                                                    0.00
35
                0.00
                                  0.00
                                                                    0.02
36
                0.00
                                                                    0.03
                                  0.01
37
                0.00
                                  0.00
                                                                    0.00
38
                0.00
                                  0.00
                                                                    0.00
39
                0.00
                                  0.00
                                                                    0.00
    Venezuelan Restaurant
                             Veterinarian
                                             Video Game Store
                                                                 Video Store \
                                                                         0.00
0
                       0.00
                                  0.000000
                                                      0.000000
1
                       0.00
                                  0.000000
                                                      0.000000
                                                                         0.00
```

2	0.00	0.000000	0.000000	0.00
3	0.00	0.000000	0.000000	0.00
4	0.00	0.000000	0.000000	0.00
5	0.00	0.000000	0.000000	0.00
6	0.00	0.000000	0.000000	0.00
7	0.00	0.000000	0.000000	0.00
8	0.00	0.000000	0.000000	0.00
9	0.00	0.000000	0.000000	0.00
10	0.00	0.000000	0.000000	0.00
11	0.00	0.000000	0.000000	0.00
12	0.00	0.000000	0.000000	0.00
13	0.00	0.000000	0.000000	0.00
14	0.00	0.000000	0.000000	0.00
15	0.00	0.017857	0.000000	0.00
16	0.00	0.000000	0.000000	0.00
17	0.00	0.000000	0.000000	0.00
18	0.00	0.000000	0.000000	0.00
19	0.00	0.000000	0.000000	0.00
20	0.00	0.000000	0.000000	0.00
21	0.00	0.000000	0.000000	0.00
22	0.00	0.000000	0.043478	0.00
23	0.00	0.000000	0.000000	0.00
24	0.00	0.000000	0.000000	0.00
25	0.00	0.000000	0.000000	0.00
26	0.00	0.00000	0.000000	0.00
27	0.01	0.000000	0.000000	0.00
28	0.00	0.000000	0.000000	0.00
29	0.00	0.000000	0.000000	0.00
30	0.00	0.000000	0.000000	0.00
31	0.00	0.000000	0.000000	0.00
32	0.00	0.000000	0.000000	0.00
33	0.00	0.000000	0.000000	0.00
34	0.00	0.000000	0.000000	0.00
35	0.00	0.000000	0.000000	0.00
36	0.00	0.000000		0.00
37	0.00	0.000000	0.011364	0.00
38	0.00	0.000000	0.000000	0.00
39	0.00	0.000000	0.000000	0.01
	Vietnamese Restaurant	Volleyball Court	-	Naterfront \
0	0.000000	0.00	0.00	0.000000
1	0.020000	0.00	0.00	0.000000
2	0.000000	0.00	0.00	0.00000
3	0.000000	0.00	0.00	0.00000
4	0.040000	0.00	0.00	0.00000
5	0.000000	0.00	0.00	0.00000
6	0.000000	0.00	0.00	0.000000
7	0.000000	0.00	0.00	0.000000

8	0.0200	00	0.00	0.00	0.000000	
9	0.0000	00	0.00	0.00	0.000000	
10	0.0000	00	0.00	0.00	0.000000	
11	0.0100	00	0.00	0.00	0.000000	
12	0.0200		0.00	0.01	0.000000	
13	0.0000		0.00	0.00	0.000000	
14	0.0000		0.00	0.00	0.000000	
15	0.0000		0.00	0.00	0.000000	
16	0.0000		0.00	0.00	0.000000	
17	0.0000		0.00	0.00	0.000000	
18	0.0100		0.00	0.00	0.000000	
19	0.0169		0.00	0.00	0.000000	
20	0.0103		0.00	0.00	0.000000	
21	0.0000		0.00	0.00	0.000000	
22	0.0000				0.000000	
			0.00	0.00		
23	0.0000		0.00		0.000000	
24	0.0000		0.00	0.00	0.000000	
25	0.0000		0.00	0.00	0.000000	
26	0.0000		0.00	0.00	0.000000	
27	0.0000		0.00	0.00	0.000000	
28	0.0000		0.00	0.00	0.038462	
29	0.0000		0.00	0.01	0.000000	
30	0.0000		0.00	0.00	0.000000	
31	0.0100		0.00	0.00	0.000000	
32	0.0100		0.01	0.00	0.000000	
33	0.0000	00	0.00	0.00	0.000000	
34	0.0000	00	0.00	0.00	0.000000	
35	0.0000	00	0.00	0.00	0.000000	
36	0.0000	00	0.00	0.00	0.000000	
37	0.0000	00	0.00	0.00	0.000000	
38	0.0000	00	0.00	0.00	0.000000	
39	0.0200	00	0.00	0.00	0.000000	
	Weight Loss Center	Whisky Bar	Wine Bar	Wine Shop	Wings Joint	\
0	0.00	0.00	0.010000	0.030000	0.000000	·
1	0.00	0.00	0.010000	0.030000	0.000000	
2	0.00	0.00	0.000000	0.000000	0.000000	
3	0.00	0.00	0.000000	0.010000	0.000000	
4	0.00	0.00	0.000000	0.000000	0.000000	
5	0.00	0.00	0.010000	0.010000	0.010000	
6	0.00	0.00	0.020000	0.030000	0.000000	
7	0.00	0.00	0.020000	0.000000	0.000000	
8	0.00	0.00	0.050000	0.020000	0.000000	
9	0.00	0.00	0.030000	0.020000	0.000000	
10	0.00	0.00	0.000000	0.020000	0.000000	
11	0.00	0.00	0.000000	0.020000	0.000000	
12	0.00	0.00	0.000000	0.000000	0.000000	
13						
13	0.00	0.00	0.017241	0.000000	0.000000	

14	0.00	0.00	0.000000	0.000000	0.000000
15	0.00	0.00	0.035714	0.017857	0.000000
16	0.00	0.00	0.010000	0.020000	0.000000
17	0.00	0.00	0.010000	0.020000	0.000000
18	0.00	0.00	0.020000	0.010000	0.000000
19	0.00	0.00	0.000000	0.000000	0.000000
20	0.00	0.00	0.000000	0.016129	0.016129
21	0.00	0.00	0.000000	0.000000	0.000000
22	0.00	0.00	0.000000	0.000000	0.000000
23	0.00	0.00	0.000000	0.00000	0.000000
24	0.00	0.00	0.010000	0.000000	0.000000
25	0.00	0.00	0.000000	0.000000	0.000000
26	0.00	0.00	0.010000	0.000000	0.000000
27	0.00	0.01	0.010000	0.020000	0.010000
28	0.00	0.00	0.000000	0.00000	0.000000
29	0.00	0.00	0.010000	0.000000	0.000000
30	0.00	0.00	0.000000	0.000000	0.000000
31	0.00	0.00	0.010000	0.010000	0.000000
32	0.00	0.01	0.030000	0.030000	0.000000
33	0.00	0.00	0.000000	0.00000	0.000000
34	0.00	0.00	0.040000	0.000000	0.000000
35	0.00	0.00	0.000000	0.020000	0.000000
36	0.00	0.00	0.030000	0.000000	0.000000
37	0.00	0.00	0.011364	0.022727	0.000000
38	0.00	0.00	0.040000	0.00000	0.000000
39	0.00	0.00	0.020000	0.020000	0.000000

Women's Store	Yoga Studio
0.030000	0.000000
0.010000	0.030000
0.000000	0.000000
0.010000	0.000000
0.000000	0.010000
0.000000	0.030000
0.000000	0.000000
0.000000	0.000000
0.000000	0.000000
0.010000	0.000000
0.030000	0.030000
0.000000	0.010000
0.000000	0.020000
0.000000	0.034483
0.000000	0.000000
0.000000	0.017857
0.010000	0.000000
0.000000	0.010000
0.020000	0.030000
0.016949	0.016949
	0.010000 0.000000 0.010000 0.000000 0.000000 0.000000 0.000000

```
20
         0.000000
                       0.032258
21
                       0.000000
         0.000000
22
         0.000000
                       0.043478
23
         0.020000
                       0.010000
24
         0.000000
                       0.020000
25
         0.000000
                       0.000000
26
         0.000000
                       0.000000
27
         0.000000
                       0.010000
28
         0.000000
                       0.000000
29
         0.060000
                       0.020000
30
         0.000000
                       0.000000
31
         0.000000
                       0.020000
32
         0.000000
                       0.010000
33
         0.000000
                       0.012500
34
         0.000000
                       0.000000
35
         0.010000
                       0.020000
36
         0.000000
                       0.010000
37
         0.011364
                       0.000000
38
         0.000000
                       0.000000
39
         0.000000
                       0.000000
```

Let's confirm the new size

3

```
In [35]: manhattan_grouped.shape
Out[35]: (40, 328)
```

Gym 0.03

Women's Store 0.03

Let's print each neighborhood along with the top 5 most common venues

```
In [36]: num_top_venues = 5
         for hood in manhattan_grouped['Neighborhood']:
             print("----"+hood+"----")
             temp = manhattan_grouped[manhattan_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
             print('\n')
----Battery Park City----
           venue freq
0
     Coffee Shop 0.08
1
            Park 0.07
2
           Hotel 0.05
```

```
----Carnegie Hill----
           venue freq
0
     Pizza Place 0.06
     Coffee Shop 0.05
  Cosmetics Shop 0.05
            Café 0.04
3
             Gym 0.03
----Central Harlem----
                venue
                       freq
                       0.07
   African Restaurant
   Chinese Restaurant
                       0.05
2 American Restaurant 0.05
   Seafood Restaurant 0.05
       Cosmetics Shop 0.05
----Chelsea----
               venue freq
  Italian Restaurant 0.06
         Coffee Shop 0.06
      Ice Cream Shop 0.05
3
              Bakery 0.04
4
           Nightclub 0.04
----Chinatown----
                  venue freq
     Chinese Restaurant 0.09
           Cocktail Bar 0.05
1
     Dim Sum Restaurant 0.04
    American Restaurant 0.04
4 Vietnamese Restaurant 0.04
----Civic Center----
                 venue freq
  Gym / Fitness Center 0.06
                Bakery 0.05
1
    Italian Restaurant 0.05
          Cocktail Bar 0.03
3
           Coffee Shop 0.03
```

```
venue freq
               Theater 0.11
0
  Gym / Fitness Center 0.04
1
           Coffee Shop 0.04
3
   American Restaurant 0.04
    Italian Restaurant 0.04
----East Harlem----
                      venue freq
         Mexican Restaurant
                             0.14
                     Bakery
                             0.09
 Latin American Restaurant
                             0.07
3
              Deli / Bodega
                             0.07
4
            Thai Restaurant 0.05
----East Village----
               venue freq
      Ice Cream Shop 0.07
                 Bar 0.06
1
            Wine Bar 0.05
        Cocktail Bar 0.04
4 Mexican Restaurant 0.04
----Financial District----
        venue freq
  Coffee Shop 0.10
        Hotel
               0.05
   Steakhouse 0.04
          Gym 0.04
3
          Bar 0.04
----Flatiron----
                          venue freq
           Gym / Fitness Center 0.04
1
             Italian Restaurant 0.04
            American Restaurant 0.04
3
                            Gym 0.04
  Vegetarian / Vegan Restaurant
----Gramercy----
                   venue freq
0
      Italian Restaurant 0.06
1
              Bagel Shop 0.04
```

```
Cocktail Bar 0.04
3 Thrift / Vintage Store 0.04
              Restaurant 0.04
----Greenwich Village----
               venue freq
  Italian Restaurant 0.09
1
      Clothing Store
                     0.04
2
   French Restaurant 0.04
3
    Sushi Restaurant 0.04
4
            Boutique 0.03
----Hamilton Heights----
               venue freq
  Mexican Restaurant 0.09
                Café 0.07
1
2
         Coffee Shop 0.07
         Pizza Place 0.05
3
         Yoga Studio 0.03
----Hudson Yards----
               venue freq
         Coffee Shop 0.10
  Italian Restaurant 0.07
1
             Theater 0.05
                Café 0.05
4
               Hotel 0.05
----Inwood----
               venue freq
0
              Lounge 0.07
  Mexican Restaurant 0.07
         Pizza Place 0.05
3
                Café 0.05
       Deli / Bodega 0.04
----Lenox Hill----
                 venue freq
0
           Coffee Shop 0.06
    Italian Restaurant 0.06
      Sushi Restaurant 0.05
           Pizza Place 0.04
```

4 Gym / Fitness Center 0.04

```
----Lincoln Square----
                 venue freq
  Gym / Fitness Center 0.06
               Theater 0.06
2
                 Plaza 0.05
3
    Italian Restaurant 0.05
          Concert Hall 0.05
----Little Italy----
               venue freq
0
              Bakery 0.07
                Café 0.04
1
      Ice Cream Shop 0.03
  Chinese Restaurant 0.03
     Bubble Tea Shop 0.03
----Lower East Side----
                venue freq
                 Café 0.05
1
          Coffee Shop 0.05
  Japanese Restaurant
                       0.03
3
               Bakery
                       0.03
4
          Pizza Place 0.03
----Manhattan Valley----
                venue freq
          Pizza Place 0.05
0
                  Bar 0.05
1
          Coffee Shop
2
                       0.05
3
          Yoga Studio
                       0.03
  Szechuan Restaurant
                       0.03
----Manhattanville----
               venue freq
       Deli / Bodega 0.08
1 Italian Restaurant 0.05
2 Mexican Restaurant 0.05
3 Chinese Restaurant 0.05
```

4 Seafood Restaurant 0.05

```
venue freq
0
    Discount Store 0.09
       Coffee Shop 0.09
1
2
       Yoga Studio 0.04
              Bank 0.04
3
  Department Store 0.04
----Midtown----
        venue
               freq
0
        Hotel
               0.06
      Theater 0.04
1
   Steakhouse 0.04
  Coffee Shop
               0.04
         Park 0.03
----Midtown South----
                     freq
               venue
   Korean Restaurant 0.17
1
           Hotel Bar 0.04
      Cosmetics Shop 0.04
         Coffee Shop 0.04
 Italian Restaurant 0.03
----Morningside Heights----
                venue freq
          Coffee Shop 0.11
   American Restaurant 0.07
                 Park 0.07
            Bookstore 0.07
3
         Burger Joint 0.04
----Murray Hill----
               venue freq
0
               Hotel 0.04
      Sandwich Place 0.04
  Salon / Barbershop 0.03
3
        Burger Joint 0.03
4
                 Spa 0.03
----Noho----
               venue freq
0 Italian Restaurant 0.07
  French Restaurant 0.05
```

Cocktail Bar 0.04 3 Sushi Restaurant 0.03 Hotel 0.03 ----Roosevelt Island---venue freq Sandwich Place 0.08 0 1 Park 0.08 2 Supermarket 0.04 3 Coffee Shop 0.04 Greek Restaurant 0.04 ----Soho---venue freq Clothing Store 0.10 Boutique 0.07 1 2 Women's Store 0.06 3 Men's Store 0.04 Shoe Store 0.04 ----Stuyvesant Town---venue freq Bar 0.24 0 Park 0.12 1 2 Heliport 0.06 Basketball Court 0.06 Gas Station 0.06 ----Sutton Place---venue freq 0 Italian Restaurant 0.06 Gym / Fitness Center 0.06 1 Indian Restaurant 0.04 Furniture / Home Store 0.04 American Restaurant 0.03 ----Tribeca---venue freq American Restaurant 0.06 Italian Restaurant 0.06 Park 0.04 3 Spa 0.04

Café 0.04

4

```
----Tudor City----
                venue freq
                 Park 0.06
0
1
                 Café 0.05
  Mexican Restaurant 0.05
          Pizza Place 0.05
3
     Greek Restaurant 0.05
----Turtle Bay----
                      freq
                venue
  Italian Restaurant 0.06
         Coffee Shop 0.04
1
           Steakhouse 0.04
3
     Sushi Restaurant 0.04
             Wine Bar 0.04
----Upper East Side----
                venue freq
             Exhibit 0.07
1
  Italian Restaurant 0.07
         Coffee Shop 0.05
          Art Gallery 0.05
3
4
               Bakery 0.04
----Upper West Side----
                                  freq
                           venue
0
              Italian Restaurant
                                  0.06
                                  0.04
1
                             Bar
2
                     Coffee Shop
                                  0.03
3
                        Wine Bar
                                  0.03
   Vegetarian / Vegan Restaurant
----Washington Heights----
               venue freq
0
                Café 0.07
1
              Bakery
                      0.05
      Sandwich Place
                      0.03
         Pizza Place
                     0.03
                    0.03
  Mobile Phone Shop
```

----West Village----

```
venue freq
0
       Italian Restaurant 0.10
1 New American Restaurant 0.05
2
           Cosmetics Shop 0.05
3
                 Wine Bar 0.04
4
                Gastropub 0.04
----Yorkville----
               venue freq
0
         Coffee Shop 0.07
                 Gym 0.06
1
2
                 Bar 0.06
3
    Sushi Restaurant 0.04
4 Italian Restaurant 0.04
```

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

Now let's create the new dataframe and display the top 10 venues for each neighborhood.

neighborhoods_venues_sorted

Out [38]:	Neighborhood	1st Most Common Venue	2nd Most Common Venue	e \
0	Battery Park City	Coffee Shop	Park	3
1	Carnegie Hill	Pizza Place	Cosmetics Shop	
2	Central Harlem	African Restaurant	Chinese Restaurant	;
3	Chelsea	Coffee Shop	Italian Restaurant	;
4	Chinatown	Chinese Restaurant	Cocktail Bar	<u>.</u>
5	Civic Center	Gym / Fitness Center	Italian Restaurant	;
6	Clinton	Theater	Coffee Shop)
7	East Harlem	Mexican Restaurant	Bakery	7
8	East Village	Ice Cream Shop	Bar	•
9	Financial District	Coffee Shop	Hotel	-
10	Flatiron	Gym / Fitness Center	Gyn	ı
11	Gramercy	Italian Restaurant	Bagel Shop)
12	Greenwich Village	Italian Restaurant	French Restaurant	;
13	Hamilton Heights	Mexican Restaurant	Coffee Shop)
14	Hudson Yards	Coffee Shop	Italian Restaurant	;
15	Inwood	Mexican Restaurant	Lounge)
16	Lenox Hill	Italian Restaurant	Coffee Shop)
17	Lincoln Square	Theater	Gym / Fitness Center	•
18	Little Italy	Bakery	Café	
19	Lower East Side	Café	Coffee Shop)
20	Manhattan Valley	Coffee Shop	Pizza Place	e
21	Manhattanville	Deli / Bodega	Italian Restaurant	;
22	Marble Hill	Coffee Shop	Discount Store	9
23	Midtown	Hotel	Theater	•
24	Midtown South	Korean Restaurant	Cosmetics Shop)
25	Morningside Heights	Coffee Shop	Park	3
26	Murray Hill	Hotel	Sandwich Place	e
27	Noho	Italian Restaurant	French Restaurant	;
28	Roosevelt Island	Sandwich Place	Park	3
29	Soho	Clothing Store	Boutique	9
30	Stuyvesant Town	Bar	Park	3
31	Sutton Place	Gym / Fitness Center	Italian Restaurant	;
32	Tribeca	American Restaurant	Italian Restaurant	;
33	Tudor City	Park	Mexican Restaurant	;
34	Turtle Bay	Italian Restaurant	Sushi Restaurant	;
35	Upper East Side	Exhibit	Italian Restaurant	;
36	Upper West Side	Italian Restaurant	Bar	•
37	Washington Heights	Café	Bakery	7
38	West Village	Italian Restaurant	Cosmetics Shop)
39	Yorkville	Coffee Shop	Bar	:
	3rd Most Common Ve	enue 4th Most Comr	non Venue 5th Most Co	ommon Venue \
0	Но	otel V	Wine Shop	Gym
1	Coffee S	Shop	Café Y	oga Studio

0	A : D + +			Garmatian Ghan
2	American Restaurant		French Restaurant	Cosmetics Shop
3	Ice Cream Shop		Nightclub	Bakery
4	American Restaurant		Dim Sum Restaurant	Vietnamese Restaurant
5	Bakery		Yoga Studio	French Restaurant
6	American Restaurant		Italian Restaurant	Gym / Fitness Center
7	Deli / Bodega	Latin	American Restaurant	Thai Restaurant
8	Wine Bar		Cocktail Bar	Mexican Restaurant
9	Wine Shop		Bar	Gym
10	American Restaurant		Italian Restaurant	Yoga Studio
11	Thrift / Vintage Store		Restaurant	Cocktail Bar
12	Sushi Restaurant		Clothing Store	Chinese Restaurant
13	Café		Pizza Place	Bakery
14	Hotel		American Restaurant	Gym / Fitness Center
15	Pizza Place		Café	${ t Bakery}$
16	Sushi Restaurant		Pizza Place	Gym / Fitness Center
17	Italian Restaurant		Plaza	Concert Hall
18	Yoga Studio		Cocktail Bar	Bubble Tea Shop
19	Ramen Restaurant		Pizza Place	Japanese Restaurant
20	Bar		Thai Restaurant	Szechuan Restaurant
21	Mexican Restaurant		Chinese Restaurant	Seafood Restaurant
22	Yoga Studio		Supplement Shop	Steakhouse
23	Steakhouse		Coffee Shop	Sporting Goods Shop
24	Hotel Bar		Coffee Shop	Bakery
25	Bookstore		American Restaurant	Food Truck
26	Spa		Bar	Japanese Restaurant
27	Cocktail Bar		American Restaurant	Sushi Restaurant
28	Rental Car Location		Bus Station	Farmers Market
29	Women's Store		Shoe Store	Men's Store
30	Baseball Field		Heliport	Gas Station
31	Furniture / Home Store		Indian Restaurant	American Restaurant
32	Café		Park	Spa
33	Greek Restaurant		Pizza Place	Café
34	Coffee Shop		Steakhouse	Hotel
	-			
35	Coffee Shop		Art Gallery	Bakery
36	Bakery		Indian Restaurant	Coffee Shop
37	Sandwich Place		Mobile Phone Shop	Pizza Place
38	New American Restaurant		Gastropub	Wine Bar
39	Gym		Italian Restaurant	Pizza Place
	6th Most Common \	<i>l</i> enue	7th Most Common V	lenue \
0	Italian Restau		Women's S	
1		Gym	French Resta	
2	Art Gal	-	Seafood Restar	
3	Seafood Restau	•		Hotel
4		akery	Noodle H	
5	De	•	Sandwich I	
5 6	Indie The	Spa		
7	Convenience S		Wine	Café
,	COULCEUTEUCE P	POOTE		our 6

•	D: D3	G1 : 5
8	Pizza Place	Chinese Restaurant
9	Steakhouse	Italian Restaurant
10	Japanese Restaurant	Salon / Barbershop
11	Wine Shop	Coffee Shop
12	Indian Restaurant	Boutique
13	Deli / Bodega	Cocktail Bar
14	Café	Theater
15	Deli / Bodega	Restaurant
16	Deli / Bodega	Sporting Goods Shop
17	French Restaurant	Café
18	Ice Cream Shop	Sandwich Place
19	Latin American Restaurant	Chinese Restaurant
20	Deli / Bodega	Playground
21	Japanese Curry Restaurant	Diner
22	Shopping Mall	Shoe Store
23	American Restaurant	Park
		raik Cocktail Bar
24	Gym / Fitness Center	***************************************
25	Sandwich Place	Tennis Court
26	Italian Restaurant	French Restaurant
27	Bookstore	Coffee Shop
28	${ t Supermarket}$	Outdoors & Recreation
29	Italian Restaurant	Mediterranean Restaurant
30	Harbor / Marina	Boat or Ferry
31	Bakery	Dessert Shop
32	Greek Restaurant	Gym
33	Hotel	Deli / Bodega
34	Wine Bar	Park
35	Gym / Fitness Center	Cocktail Bar
36	Vegetarian / Vegan Restaurant	Cosmetics Shop
37	Clothing Store	Tapas Restaurant
38	Jazz Club	Park
39	Sushi Restaurant	Mexican Restaurant
00		
	8th Most Common Venue	9th Most Common Venue \
0	Burger Joint	Pizza Place
1	Bookstore	Bar
2	Bookstore	
3		Gym / Fitness Center Theater
	Art Gallery	
4	Hotpot Restaurant	Ice Cream Shop
5	Cocktail Bar	Coffee Shop
6	Spa	Hotel
7	Taco Place	French Restaurant
8		ian / Vegan Restaurant
9	Pizza Place	Park
10	Clothing Store	Cosmetics Shop
11	Mexican Restaurant	American Restaurant
12	Café	Seafood Restaurant
13	Sandwich Place	School

14	Dog Run	Restaurant
15	Park	Chinese Restaurant
16	Burger Joint	Gym
17	Indie Movie Theater	Opera House
18	Salon / Barbershop	Chinese Restaurant
19	Sandwich Place	Bakery
20	Mexican Restaurant	Yoga Studio
21	Sushi Restaurant	Supermarket
22	Seafood Restaurant	Sandwich Place
23	Spa	Bakery
24	Hotel	Japanese Restaurant
25	Café	Deli / Bodega
26	Gym	Burger Joint
27	Gift Shop	Grocery Store
28	Metro Station	Dry Cleaner
29	Art Gallery	Salon / Barbershop
30	Playground	Pet Service
31	Juice Bar	Yoga Studio
32	Boutique	Coffee Shop
33	Diner	Dog Run
34	Japanese Restaurant	Noodle House
35	French Restaurant	Hotel
36	Wine Bar	Pub
37	Donut Shop	${ t Supermarket}$
38	American Restaurant	Bakery
39	Japanese Restaurant	Deli / Bodega
	10th Most Common Venue	
0	Beer Garden	
1	Japanese Restaurant	

2 Gym 3 American Restaurant 4 Salon / Barbershop 5 Park Gym 6 Street Art 7 8 Speakeasy Food Truck 9 10 Cycle Studio Pizza Place 11 12 Electronics Store 13 Chinese Restaurant 14 Park 15 Spanish Restaurant 16 Cosmetics Shop Park 17 18 Seafood Restaurant Cocktail Bar 19

```
20
           Chinese Restaurant
21
           Spanish Restaurant
22
                  Pizza Place
23
                     Bookstore
24
           Italian Restaurant
25
                  Burger Joint
26
         Gym / Fitness Center
27
           Mexican Restaurant
28
                       Dog Run
29
           Seafood Restaurant
30
                  Cocktail Bar
31
             Sushi Restaurant
32
                      Wine Bar
33
             Asian Restaurant
34
            French Restaurant
35
                      Boutique
36
             Sushi Restaurant
37 Latin American Restaurant
38
            French Restaurant
39
                          Park
```

0.6 4. Cluster Neighborhoods

Run *k*-means to cluster the neighborhood into 5 clusters.

```
# add clustering labels
manhattan_merged['Cluster Labels'] = kmeans.labels_

# merge toronto_grouped with toronto_data to add latitude/longitude for each neighborho
manhattan_merged = manhattan_merged.join(neighborhoods_venues_sorted.set_index('Neighborhoods_venues_sorted)) # check the last columns!
```

```
Out[41]:
              Borough
                                                                    Cluster Labels
                              Neighborhood
                                              Latitude Longitude
                                            40.876551 -73.910660
           Manhattan
                               Marble Hill
                                                                                  1
         1 Manhattan
                                 Chinatown 40.715618 -73.994279
                                                                                  1
         2 Manhattan
                                             40.851903 -73.936900
                                                                                  2
                        Washington Heights
                                                                                  2
            Manhattan
                                    Inwood
                                             40.867684 -73.921210
         4 Manhattan
                          Hamilton Heights
                                             40.823604 -73.949688
                                                                                  2
           1st Most Common Venue 2nd Most Common Venue 3rd Most Common Venue
                      Coffee Shop
                                         Discount Store
                                                                    Yoga Studio
         0
              Chinese Restaurant
         1
                                            Cocktail Bar
                                                            American Restaurant
         2
                                                                 Sandwich Place
                             Café
                                                  Bakery
         3
              Mexican Restaurant
                                                                    Pizza Place
                                                  Lounge
              Mexican Restaurant
                                                                           Café
                                             Coffee Shop
           4th Most Common Venue
                                   5th Most Common Venue 6th Most Common Venue
         0
                 Supplement Shop
                                               Steakhouse
                                                                   Shopping Mall
         1
              Dim Sum Restaurant
                                   Vietnamese Restaurant
                                                                          Bakery
         2
               Mobile Phone Shop
                                              Pizza Place
                                                                  Clothing Store
         3
                                                                   Deli / Bodega
                             Café
                                                   Bakery
         4
                      Pizza Place
                                                   Bakery
                                                                   Deli / Bodega
           7th Most Common Venue 8th Most Common Venue 9th Most Common Venue
         0
                       Shoe Store
                                     Seafood Restaurant
                                                                 Sandwich Place
                     Noodle House
                                      Hotpot Restaurant
                                                                 Ice Cream Shop
         1
         2
                Tapas Restaurant
                                              Donut Shop
                                                                    Supermarket
         3
                       Restaurant
                                                    Park
                                                             Chinese Restaurant
                     Cocktail Bar
         4
                                                                         School
                                          Sandwich Place
               10th Most Common Venue
         0
                           Pizza Place
                    Salon / Barbershop
         1
         2
            Latin American Restaurant
         3
                    Spanish Restaurant
                   Chinese Restaurant
   Finally, let's visualize the resulting clusters
In [42]: # 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 \text{ for } i \text{ in range(kclusters)}]
         colors_array = cm.rainbow(np.linspace(0, 1, len(ys)))
         rainbow = [colors.rgb2hex(i) for i in colors_array]
         # add markers to the map
         markers_colors = []
```

```
for lat, lon, poi, cluster in zip(manhattan_merged['Latitude'], manhattan_merged['Longi
    label = folium.Popup(str(poi) + ' Cluster ' + str(cluster), parse_html=True)
    folium.CircleMarker(
        [lat, lon],
        radius=5,
        popup=label,
        color=rainbow[cluster-1],
        fill=True,
        fill_color=rainbow[cluster-1],
        fill_opacity=0.7).add_to(map_clusters)
map_clusters
```

Out[42]: <folium.folium.Map at 0x7f38e060be48>

0.7 5. Examine Clusters

37

Now, you can examine each cluster and determine the discriminating venue categories that distinguish each cluster. Based on the defining categories, you can then assign a name to each cluster. I will leave this exercise to you.

Cluster 1

```
In [43]: manhattan_merged.loc[manhattan_merged['Cluster Labels'] == 0, manhattan_merged.columns[
Out[43]:
                Neighborhood 1st Most Common Venue 2nd Most Common Venue \
                 East Harlem
         7
                                Mexican Restaurant
                                                                   Bakery
         13
              Lincoln Square
                                            Theater Gym / Fitness Center
         15
                     Midtown
                                              Hotel
                                                                  Theater
         37 Stuyvesant Town
                                                Bar
                                                                     Park
                                        4th Most Common Venue 5th Most Common Venue \
            3rd Most Common Venue
         7
                    Deli / Bodega Latin American Restaurant
                                                                    Thai Restaurant
               Italian Restaurant
                                                                       Concert Hall
         13
                       Steakhouse
                                                  Coffee Shop
                                                                Sporting Goods Shop
         37
                   Baseball Field
                                                     Heliport
                                                                        Gas Station
            6th Most Common Venue 7th Most Common Venue 8th Most Common Venue \
         7
                Convenience Store
                                                    Café
                                                                    Taco Place
                French Restaurant
                                                           Indie Movie Theater
         13
                                                    Café
         15
              American Restaurant
                                                    Park
                                                                            Spa
                  Harbor / Marina
         37
                                           Boat or Ferry
                                                                    Playground
            9th Most Common Venue 10th Most Common Venue
         7
                French Restaurant
                                               Street Art
         13
                      Opera House
                                                     Park
                                                Bookstore
         15
                           Bakery
```

Cocktail Bar

Pet Service

Cluster 2

34

```
In [44]: manhattan_merged.loc[manhattan_merged['Cluster Labels'] == 1, manhattan_merged.columns[
                  Neighborhood 1st Most Common Venue 2nd Most Common Venue
Out [44]:
         0
                  Marble Hill
                                          Coffee Shop
                                                              Discount Store
         1
                     Chinatown
                                  Chinese Restaurant
                                                                Cocktail Bar
         8
              Upper East Side
                                              Exhibit
                                                          Italian Restaurant
         9
                     Yorkville
                                          Coffee Shop
                                                                          Bar
         11
             Roosevelt Island
                                       Sandwich Place
                                                                        Park
         16
                   Murray Hill
                                                Hotel
                                                              Sandwich Place
         20
              Lower East Side
                                                 Café
                                                                 Coffee Shop
                                 American Restaurant
         21
                       Tribeca
                                                          Italian Restaurant
         22
                  Little Italy
                                               Bakery
                                                                        Café
         25
             Manhattan Valley
                                          Coffee Shop
                                                                 Pizza Place
         33
                Midtown South
                                    Korean Restaurant
                                                              Cosmetics Shop
         34
                  Sutton Place
                                Gym / Fitness Center
                                                          Italian Restaurant
         36
                   Tudor City
                                                 Park
                                                          Mexican Restaurant
         39
                 Hudson Yards
                                          Coffee Shop
                                                          Italian Restaurant
              3rd Most Common Venue 4th Most Common Venue
                                                              5th Most Common Venue
         0
                         Yoga Studio
                                            Supplement Shop
                                                                          Steakhouse
                                                              Vietnamese Restaurant
         1
                American Restaurant
                                         Dim Sum Restaurant
         8
                         Coffee Shop
                                                Art Gallery
                                                                              Bakery
         9
                                         Italian Restaurant
                                                                        Pizza Place
                                 Gym
                Rental Car Location
                                                Bus Station
                                                                     Farmers Market
         11
         16
                                                         Bar
                                                                Japanese Restaurant
                                 Spa
         20
                                                Pizza Place
                    Ramen Restaurant
                                                                Japanese Restaurant
         21
                                Café
                                                       Park
                                                                                 Spa
         22
                         Yoga Studio
                                               Cocktail Bar
                                                                    Bubble Tea Shop
         25
                                            Thai Restaurant
                                                                Szechuan Restaurant
                                 Bar
                           Hotel Bar
         33
                                                Coffee Shop
                                                                              Bakery
         34
             Furniture / Home Store
                                          Indian Restaurant
                                                                American Restaurant
                   Greek Restaurant
         36
                                                Pizza Place
                                                                                Café
         39
                                        American Restaurant
                               Hotel
                                                               Gym / Fitness Center
                  6th Most Common Venue
                                          7th Most Common Venue 8th Most Common Venue
         0
                          Shopping Mall
                                                      Shoe Store
                                                                    Seafood Restaurant
                                                   Noodle House
                                                                     Hotpot Restaurant
         1
                                 Bakery
         8
                   Gym / Fitness Center
                                                   Cocktail Bar
                                                                     French Restaurant
                                             Mexican Restaurant
         9
                       Sushi Restaurant
                                                                   Japanese Restaurant
         11
                            Supermarket
                                          Outdoors & Recreation
                                                                         Metro Station
         16
                     Italian Restaurant
                                              French Restaurant
                                                                                    Gym
         20
             Latin American Restaurant
                                             Chinese Restaurant
                                                                         Sandwich Place
         21
                       Greek Restaurant
                                                             Gym
                                                                               Boutique
         22
                         Ice Cream Shop
                                                 Sandwich Place
                                                                    Salon / Barbershop
         25
                          Deli / Bodega
                                                     Playground
                                                                    Mexican Restaurant
         33
                   Gym / Fitness Center
                                                   Cocktail Bar
                                                                                  Hotel
                                                                              Juice Bar
```

Bakery

Dessert Shop

36 39	I	Hotel Café	Deli / Bode	•	Diner Dog Run
33		oare	Theat	21	Dog Run
ç	9th Most Common Venue	10th Most Co	ommon Venue		
0	Sandwich Place	I	Pizza Place		
1	Ice Cream Shop	Salon /	Barbershop		
8	Hotel		Boutique		
9	Deli / Bodega		Park		
11	Dry Cleaner		Dog Run		
16	Burger Joint	Gym / Fit	ness Center		
20	Bakery	Co	ocktail Bar		
21	Coffee Shop		Wine Bar		
22	Chinese Restaurant	${\tt Seafood}$	Restaurant		
25	Yoga Studio	Chinese	Restaurant		
33	Japanese Restaurant	Italian	Restaurant		
34	Yoga Studio	Sushi	Restaurant		
36	Dog Run	Asian	Restaurant		
39	Restaurant		Park		

Cluster 3

In [45]: manhattan_merged.loc[manhattan_merged['Cluster Labels'] == 2, manhattan_merged.columns[

Out[45]:	Neighborhood	1st Most Common Venue	2nd Most Common Venue	\
2	Washington Heights	Café	Bakery	
3	Inwood	Mexican Restaurant	Lounge	
4	Hamilton Heights	Mexican Restaurant	Coffee Shop	
5	Manhattanville	Deli / Bodega	Italian Restaurant	
6	Central Harlem	African Restaurant	Chinese Restaurant	
10	Lenox Hill	Italian Restaurant	Coffee Shop	
12	Upper West Side	Italian Restaurant	Bar	
14	Clinton	Theater	Coffee Shop	
17	Chelsea	Coffee Shop	Italian Restaurant	
18	Greenwich Village	Italian Restaurant	French Restaurant	
19	East Village	Ice Cream Shop	Bar	
23	Soho	Clothing Store	Boutique	
24	West Village	Italian Restaurant	Cosmetics Shop	
26	Morningside Heights	Coffee Shop	Park	
27	Gramercy	Italian Restaurant	Bagel Shop	
29	Financial District	Coffee Shop	Hotel	
31	Noho	Italian Restaurant	French Restaurant	
32	Civic Center	Gym / Fitness Center	Italian Restaurant	
35	Turtle Bay	Italian Restaurant	Sushi Restaurant	
38	Flatiron	Gym / Fitness Center	Gym	
	3rd Mogt Common Vo	enue 4th Most Common Ve	onus 5th Magt Common V	onuo \
2	Sandwich Pl			•
3	Sandwich Pi Pizza Pi		±	
3	Pizza Pi	Lace	Café Bal	kery

Mexican Restaurant Chinese Restaurant Seafood Restaurant American Restaurant French Restaurant Cosmetics Shop Sushi Restaurant Pizza Place Gym / Fitness Center Bakery Indian Restaurant Coffee Shop American Restaurant Italian Restaurant Gym / Fitness Center Ize Cream Shop Nightclub Bakery Sushi Restaurant Clothing Store Chinese Restaurant Wine Bar Cocktail Bar Mexican Restaurant Wine Bar Cocktail Bar Mexican Restaurant Sushi Restaurant Gastropub Wine Bar Cocktail Bar American Restaurant Cocktail Bar Sushi Restaurant Food Truck Food Truc
American Restaurant Pirench Restaurant Cosmetics Shop Sushi Restaurant Pizza Place Gym / Fitness Center American Restaurant Italian Restaurant Coffee Shop American Restaurant Italian Restaurant Gym / Fitness Center To Ice Cream Shop Nightclub Bakery Restaurant Clothing Store Chinese Restaurant Wine Bar Cocktail Bar Mexican Restaurant Wine Bar Cocktail Bar Mexican Restaurant Restaurant Gastropub Wine Bar Restaurant Gastropub Wine Bar Restaurant Food Truck Thrift / Vintage Store Restaurant Cocktail Bar Wine Shop Bar Gym Cocktail Bar American Restaurant Sushi Restaurant Restaurant Sushi Restaurant American Restaurant Sushi Restaurant Locffee Shop Steakhouse Hotel American Restaurant Italian Restaurant Yoga Studio Cocktail Bar American Restaurant Restaurant Restaurant Talian Restaurant Res
Bakery Indian Restaurant Coffee Shop American Restaurant Italian Restaurant Gym / Fitness Center Ize Cream Shop Nightclub Bakery Sushi Restaurant Clothing Store Chinese Restaurant Wine Bar Cocktail Bar Mexican Restaurant Women's Store Shoe Store Men's Store New American Restaurant Gastropub Wine Bar Bookstore American Restaurant Food Truck Thrift / Vintage Store Restaurant Cocktail Bar Wine Shop Bar Gym Cocktail Bar American Restaurant Sushi Restaurant Cocktail Bar American Restaurant Sushi Restaurant American Restaurant Talian Restaurant Yoga Studio 6th Most Common Venue Tapas Restaurant Cocktail Bar Deli / Bodega Restaurant Cocktail Bar Cocktail Bar Cocktail Bar Cocktail Bar American Restaurant Sushi Restaurant Sushi Restaurant Cocktail Bar
Bakery Indian Restaurant Coffee Shop 14 American Restaurant Italian Restaurant Gym / Fitness Center 17 Ice Cream Shop Nightclub Bakery 18 Sushi Restaurant Clothing Store Chinese Restaurant 19 Wine Bar Cocktail Bar Mexican Restaurant 23 Women's Store Shoe Store Men's Store 24 New American Restaurant Gastropub Wine Bar 26 Bookstore American Restaurant Food Truck 27 Thrift / Vintage Store Restaurant Cocktail Bar 29 Wine Shop Bar Gym 31 Cocktail Bar American Restaurant Sushi Restaurant 32 Bakery Yoga Studio French Restaurant 33 American Restaurant Italian Restaurant Yoga Studio 6th Most Common Venue 7th Most Common Venue \ Clothing Store Tapas Restaurant 3 Deli / Bodega Restaurant 4 Deli / Bodega Cocktail Bar
14 American Restaurant Italian Restaurant Gym / Fitness Center 17 Ice Cream Shop Nightclub Bakery 18 Sushi Restaurant Clothing Store Chinese Restaurant 19 Wine Bar Cocktail Bar Mexican Restaurant 23 Women's Store Shoe Store Men's Store 24 New American Restaurant Gastropub Wine Bar 26 Bookstore American Restaurant Food Truck 27 Thrift / Vintage Store Restaurant Cocktail Bar 29 Wine Shop Bar Gym 31 Cocktail Bar American Restaurant Sushi Restaurant 32 Bakery Yoga Studio French Restaurant 33 American Restaurant Italian Restaurant Yoga Studio 6th Most Common Venue 7th Most Common Venue \ 2 Clothing Store Tapas Restaurant 3 Deli / Bodega Restaurant 4 Deli / Bodega Cocktail Bar
17 Ice Cream Shop Nightclub Bakery 18 Sushi Restaurant Clothing Store Chinese Restaurant 19 Wine Bar Cocktail Bar Mexican Restaurant 23 Women's Store Shoe Store Men's Store 24 New American Restaurant Gastropub Wine Bar 26 Bookstore American Restaurant Food Truck 27 Thrift / Vintage Store Restaurant Cocktail Bar 29 Wine Shop Bar Gym 31 Cocktail Bar American Restaurant Sushi Restaurant 32 Bakery Yoga Studio French Restaurant 33 Coffee Shop Steakhouse Hotel 34 American Restaurant Italian Restaurant Yoga Studio 64 Most Common Venue 7th Most Common Venue \ 2 Clothing Store Tapas Restaurant 3 Deli / Bodega Restaurant 4 Deli / Bodega Cocktail Bar
Sushi Restaurant Wine Bar Cocktail Bar Wexican Restaurant New American Restaurant Bookstore Thrift / Vintage Store Wine Shop Store American Restaurant Cocktail Bar American Restaurant Cocktail Bar Cocktail Bar American Restaurant Cocktail Bar Cocktail Bar American Restaurant Cocktail Bar Sushi Restaurant Sushi Restaurant Cocktail Bar Gym American Restaurant Cocktail Bar Cocktail Bar American Restaurant Sushi Restaurant Sushi Restaurant Sushi Restaurant Trench Restaurant Sushi Restaurant Trench Restaurant Trench Restaurant Toga Studio American Restaurant The Most Common Venue Clothing Store Tapas Restaurant Deli / Bodega Restaurant Cocktail Bar
Wine Bar Cocktail Bar Mexican Restaurant Shoe Store Men's Store New American Restaurant Gastropub Wine Bar Bookstore American Restaurant Food Truck Thrift / Vintage Store Restaurant Cocktail Bar Wine Shop Bar Gym Cocktail Bar American Restaurant Sushi Restaurant Bakery Yoga Studio French Restaurant Cocktail Bar American Restaurant Sushi Restaurant Thrift / Vintage Store Restaurant Sushi Restaurant Thrift / Vintage Store Restaurant Sushi Restaurant Thrift / Vintage Store Steakhouse Hotel Thrift / Vintage Store Steakhouse Hotel Thrift / Vintage Store Tapas Restaurant Thrift / Vintage Store Men's S
Women's Store Shoe Store Men's Store New American Restaurant Gastropub Wine Bar Bookstore American Restaurant Food Truck Thrift / Vintage Store Restaurant Cocktail Bar Wine Shop Bar Gym Cocktail Bar American Restaurant Sushi Restaurant Bakery Yoga Studio French Restaurant Coffee Shop Steakhouse Hotel American Restaurant Italian Restaurant Yoga Studio 6th Most Common Venue 7th Most Common Venue \ Cocktail Bar American Restaurant Yoga Studio Restaurant Obeli / Bodega Restaurant Restaurant American Restaurant American Restaurant
New American Restaurant Gastropub Wine Bar Bookstore American Restaurant Food Truck Thrift / Vintage Store Restaurant Cocktail Bar Wine Shop Bar Gym Cocktail Bar American Restaurant Sushi Restaurant Bakery Yoga Studio French Restaurant Coffee Shop Steakhouse Hotel American Restaurant Italian Restaurant Yoga Studio 6th Most Common Venue 7th Most Common Venue \ Clothing Store Tapas Restaurant Deli / Bodega Restaurant Deli / Bodega Cocktail Bar
Bookstore American Restaurant Food Truck Thrift / Vintage Store Restaurant Cocktail Bar Wine Shop Bar Gym Cocktail Bar American Restaurant Sushi Restaurant Bakery Yoga Studio French Restaurant Coffee Shop Steakhouse Hotel American Restaurant Italian Restaurant Yoga Studio 6th Most Common Venue 7th Most Common Venue \ Clothing Store Tapas Restaurant Deli / Bodega Restaurant Deli / Bodega Cocktail Bar
Thrift / Vintage Store Restaurant Cocktail Bar Wine Shop Bar Gym Cocktail Bar American Restaurant Sushi Restaurant Bakery Yoga Studio French Restaurant Coffee Shop Steakhouse Hotel American Restaurant Italian Restaurant Yoga Studio 6th Most Common Venue 7th Most Common Venue \ Clothing Store Tapas Restaurant Deli / Bodega Restaurant Deli / Bodega Cocktail Bar
Wine Shop Bar Gym Cocktail Bar American Restaurant Sushi Restaurant Bakery Yoga Studio French Restaurant Coffee Shop Steakhouse Hotel American Restaurant Italian Restaurant Yoga Studio 6th Most Common Venue 7th Most Common Venue \ Clothing Store Tapas Restaurant Deli / Bodega Restaurant Deli / Bodega Cocktail Bar
31 Cocktail Bar American Restaurant Sushi Restaurant 32 Bakery Yoga Studio French Restaurant 35 Coffee Shop Steakhouse Hotel 38 American Restaurant Italian Restaurant Yoga Studio 6th Most Common Venue 7th Most Common Venue \ 2 Clothing Store Tapas Restaurant 3 Deli / Bodega Restaurant 4 Deli / Bodega Cocktail Bar
31 Cocktail Bar American Restaurant Sushi Restaurant 32 Bakery Yoga Studio French Restaurant 35 Coffee Shop Steakhouse Hotel 38 American Restaurant Italian Restaurant Yoga Studio 6th Most Common Venue 7th Most Common Venue \ 2 Clothing Store Tapas Restaurant 3 Deli / Bodega Restaurant 4 Deli / Bodega Cocktail Bar
35 Coffee Shop Steakhouse Hotel 38 American Restaurant Italian Restaurant Yoga Studio 6th Most Common Venue 7th Most Common Venue \ 2 Clothing Store Tapas Restaurant 3 Deli / Bodega Restaurant 4 Deli / Bodega Cocktail Bar
35 Coffee Shop Steakhouse Hotel 38 American Restaurant Italian Restaurant Yoga Studio 6th Most Common Venue 7th Most Common Venue \ 2 Clothing Store Tapas Restaurant 3 Deli / Bodega Restaurant 4 Deli / Bodega Cocktail Bar
American Restaurant Italian Restaurant Yoga Studio 6th Most Common Venue 7th Most Common Venue \ Clothing Store Tapas Restaurant Deli / Bodega Restaurant Deli / Bodega Cocktail Bar
6th Most Common Venue 7th Most Common Venue \ 2
Clothing Store Tapas Restaurant Deli / Bodega Restaurant Deli / Bodega Cocktail Bar
3 Deli / Bodega Restaurant 4 Deli / Bodega Cocktail Bar
3 Deli / Bodega Restaurant 4 Deli / Bodega Cocktail Bar
4 Deli / Bodega Cocktail Bar
· C
6 Art Gallery Seafood Restaurant
10 Deli / Bodega Sporting Goods Shop
12 Vegetarian / Vegan Restaurant Cosmetics Shop
14 Indie Theater Wine Shop
17 Seafood Restaurant Hotel
18 Indian Restaurant Boutique
19 Pizza Place Chinese Restaurant
23 Italian Restaurant Mediterranean Restaurant
24 Jazz Club Park
26 Sandwich Place Tennis Court
27 Wine Shop Coffee Shop
29 Steakhouse Italian Restaurant
31 Bookstore Coffee Shop
•
•
38 Japanese Restaurant Salon / Barbershop
Oth Most Common Vanua Oth Most Common Vanua
8th Most Common Venue 9th Most Common Venue \
2 Donut Shop Supermarket 2 Chinaga Pastaurant
3 Park Chinese Restaurant
4 Sandwich Place School
5 Sushi Restaurant Supermarket
6 Bookstore Gym / Fitness Center
10 Burger Joint Gym

```
23
                       Art Gallery
                                                Salon / Barbershop
         24
              American Restaurant
                                                            Bakery
         26
                              Café
                                                     Deli / Bodega
         27
               Mexican Restaurant
                                               American Restaurant
         29
                      Pizza Place
                                                              Park
         31
                         Gift Shop
                                                     Grocery Store
         32
                     Cocktail Bar
                                                       Coffee Shop
              Japanese Restaurant
         35
                                                      Noodle House
         38
                   Clothing Store
                                                    Cosmetics Shop
                10th Most Common Venue
         2
             Latin American Restaurant
         3
                    Spanish Restaurant
         4
                    Chinese Restaurant
         5
                    Spanish Restaurant
         6
                                    Gym
         10
                         Cosmetics Shop
         12
                       Sushi Restaurant
         14
                                    Gym
         17
                   American Restaurant
                     Electronics Store
         18
         19
                              Speakeasy
         23
                    Seafood Restaurant
         24
                     French Restaurant
         26
                           Burger Joint
         27
                            Pizza Place
         29
                             Food Truck
         31
                    Mexican Restaurant
         32
                                   Park
         35
                     French Restaurant
         38
                           Cycle Studio
Cluster 4
In [46]: manhattan_merged.loc[manhattan_merged['Cluster Labels'] == 3, manhattan_merged.columns[
Out[46]:
              Neighborhood 1st Most Common Venue 2nd Most Common Venue
            Carnegie Hill
                                      Pizza Place
                                                          Cosmetics Shop
            3rd Most Common Venue 4th Most Common Venue 5th Most Common Venue
         30
                       Coffee Shop
                                                     Café
                                                                     Yoga Studio
            6th Most Common Venue 7th Most Common Venue 8th Most Common Venue \
```

Pub

Hotel

Theater

Seafood Restaurant

Vegetarian / Vegan Restaurant

12

14

17

18

19

Wine Bar

Art Gallery

Coffee Shop

Spa

Café

```
30 Gym French Restaurant Bookstore
9th Most Common Venue 10th Most Common Venue
30 Bar Japanese Restaurant
```

Cluster 5

```
In [47]: manhattan_merged.loc[manhattan_merged['Cluster Labels'] == 4, manhattan_merged.columns[
Out[47]:
                  Neighborhood 1st Most Common Venue 2nd Most Common Venue \
         28 Battery Park City
                                         Coffee Shop
                                                                      Park
            3rd Most Common Venue 4th Most Common Venue 5th Most Common Venue \
         28
                            Hotel
                                              Wine Shop
                                                                          Gym
            6th Most Common Venue 7th Most Common Venue 8th Most Common Venue \
               Italian Restaurant
                                         Women's Store
                                                                 Burger Joint
            9th Most Common Venue 10th Most Common Venue
         28
                     Pizza Place
                                             Beer Garden
```

0.7.1 Thank you for completing this lab!

This notebook was created by Alex Aklson. I hope you found this lab interesting and educational. Feel free to contact me if you have any questions!

This notebook is part of a course on **Coursera** called *Applied Data Science Capstone*. If you accessed this notebook outside the course, you can take this course online by clicking here.

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