IBM Applied Data Science Capstone Project
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Title: Major Japanese Cities and Access to Healthcare

Introduction

As the rate of the human population increases, accommodating services such as healthcare and other resources will have to be optimized to ensure equal and satisfactory access for all peoples. This capstone project observes the use of Python libraries and data acquired from public sources to visually display the need for such facilities to be made by specified regions. For this project, we analyze the demand for accessible healthcare facilities in densely populated regions of Japan to assist governments and private companies in the development of strategically placed healthcare centers or medical facilities.

Data Acquisition and Validation

The data used to represent the population sizes and location (latitude and longitude) was obtained from a public source provided by the National Geospatial-Intelligence Agency and is represented as a table in a .csv file. This file includes the name of the prefecture and their respective coordinates, along with the population of the region, updated April of 2019 [1]. The Foursquare API was used to plot and determine types of medical centers and the frequency distribution for our target prefectures surrounding Tokyo, Japan. This particular city is chosen as our point of reference due to it being the most heavily populated city in Japan. See index for references.

Methodology

Much of the data that is obtained is disorganized and must be sorted to clearly observe it. Here are the top rows of the imported data displaying Japan's prefectures and their respective geographical coordinates:

	City	Latitude	Longitude	Country	ID	Admin	Capital	Population	Population Proper
0	Tokyo	35.685000	139.751389	Japan	JP	Tōkyō	primary	35676000.0	8336599.0
1	Ōsaka	34.683333	135.516667	Japan	JP	Ōsaka	admin	11294000.0	2592413.0
2	Yokohama	35.433333	139.650000	Japan	JP	Kanagawa	admin	3697894.0	3697894.0
3	Nagoya	35.183333	136.900000	Japan	JP	Aichi	admin	3230000.0	2191279.0
4	Fukuoka	33.600000	130.416667	Japan	JP	Fukuoka	admin	2792000.0	1392289.0

Figure 1.1 – Population and Coordinates of Japanese Prefectures

To organize this data, we sort it by descending alphabetical order relative to the prefectures in the 'City' column. In order for it to be easily accessed by simpler keys, we use the string replace method to replace the micron, *ō,* character from the names of the cities with a regular *"o"* character.

	City	Latitude	Longitude	Country	ID	Admin	Capital	Population	Population Proper
0	Akita	39.716667	140.100000	Japan	JP	Akita	admin	320069.0	281856.0
1	Aomori	40.816667	140.733333	Japan	JP	Aomori	admin	298394.0	264749.0
2	Asahikawa	43.767778	142.370278	Japan	JP	Hokkaidō	NaN	356612.0	325547.0
3	Ashino	43.015176	144.397259	Japan	JP	Hokkaidō	NaN	198566.0	183612.0
4	Chiba	35.600000	140.116667	Japan	JP	Chiba	admin	NaN	NaN

Figure 1.2 – Organized Japanese Population Dataset

We utilize the Foursquare API to first observe the region surrounding Tokyo. Using the latitude = 35.685 and longitude = 139.751389, we create a call to the API using the specified parameters and Foursquare's category identification number for the "Medical Center" group.

```
# Define Foursquare API hospital code
med_center = '4bf58dd8d48988d104941735'

# Create the request for hospital venues
radius = 100000
LIMIT = 1000000000

url = 'https://api.foursquare.com/v2/venues/explore?&client_id={}&client_secret={}&categoryId={}&v={}&ll={},{}&radius={
    CLIENT_ID,
    CLIENT_SECRET,
    med_center,
    VERSION,
    latitude,
    longitude,
    radius,
    LIMIT)
```

Figure 1.3 – Foursquare API Call for Medical Centers

The *request* function returns the data in json format. We normalize this data and store it into a data frame. To use the data, we further clean it by organizing the medical facilities by category. The resulting data frame is observed:

	Name	Category	lat	lng
0	Tokyo Midtown Clinic (東京ミッドタウンクリニック)	Doctor's Office	35.666244	139.731219
1	春日クリニック	Doctor's Office	35.711892	139.752365
2	フィオーレ健診クリニック	Doctor's Office	35.698028	139.709052
3	フェニックスメディカルクリニック 本館	Doctor's Office	35.678246	139.705671
4	社会医療法人財団 石心会 さやま総合クリニック	Doctor's Office	35.853096	139.401460
5	愛育病院	Doctor's Office	35.646179	139.752582
6	きらく内科クリニック	Doctor's Office	35.697500	139.797336
7	深川ギャザリアクリニック	Doctor's Office	35.666736	139.804728
8	川崎幸クリニック	Doctor's Office	35.534934	139.690485
9	オーバルコート健診クリニック	Doctor's Office	35.623107	139.729029

Figure 1.4 – Foursquare API Call for Medical Centers

The returned data frame has 100 rows of unique medical facilities, including their name, category, and geographical coordinates. These locations are specified within a 100,000 m radius with Tokyo being the central point of origin. Further exploration of the definitions of the categories will be discussed upon later phases of this analysis.

We can observe the physical distribution of these locations using the folium library in Python.

```
# Folium Map of Japan and Prefectures
    # We will observe the healthcare facilities surrounding Tokyo
latitude = 35.685
longitude = 139.751389

# create map of Japan using latitude and longitude values
map_japan = folium.Map(location=[latitude, longitude], zoom_start=10)

# add markers to map using data retrieved on jp_pop table
for lat, lng, label, in zip(jp_pop['Latitude'], jp_pop['Longitude'], jp_pop['City']):
    label = folium.Popup(label, parse_html=True)
    folium.CircleMarker(
        [lat, lng],
        radius=10,
        popup=label,
        color='purple',
        fill=True,
        fill_color='#9589dc',
        fill_opacity=.5,
        parse_html=False).add_to(map_japan)
# Map surrounding medical facilities onto map
for lat, lng, label, in zip(med_centers['lat'], med_centers['lng'], med_centers['Name']):
    label = folium.Popup(label, parse_html=True)
    folium.CircleMarker(
        [lat, lng],
        radius=3,
        popup=label,
        color='blue',
        fill=True,
        fill_color='#1089dc',
        fill_opacity=.1,
        parse_html=False).add_to(map_japan)

map_japan
```

Figure 1.5 – Initializing Folium Map

The map is initialized by asserting the latitude and longitude of Tokyo japan and creating markers of the prefectures using the column information provided in the population table. This visualization will provide us with information needed to further clarify the need for more equal distribution and accessibility to health care facilities for each individual prefecture.
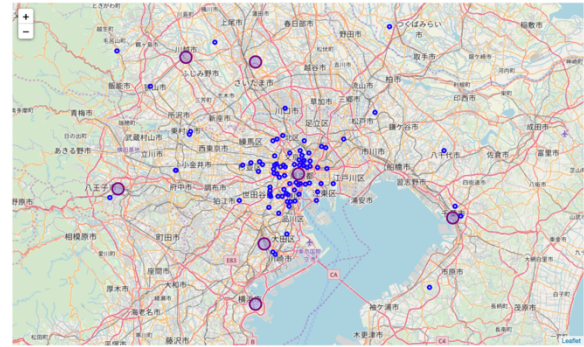

Figure 1.6 – Folium Map of Tokyo, Japan and Healthcare Facilities

Here, we see that there are 7 major cities located in the region surrounding Tokyo. To further focus our analysis, we specify the data from the table concerning these particular prefectures.

```
# Analyze access to facilities in regards to the cities surrounding Tokyo
tokyo = jp_pop[jp_pop['City'] == 'Tokyo']
kawagoe = jp_pop[jp_pop['City'] == 'Kawagoe']
saitama = jp_pop[jp_pop['City'] == 'Saitama']
chiba = jp_pop[jp_pop['City'] == 'Chiba']
shinkawasaki = jp_pop[jp_pop['City'] == 'Shinkawasaki']
yokohama = jp_pop[jp_pop['City'] == 'Yokohama']
hachioji = jp_pop[jp_pop['City'] == 'Hachioji']

# Concatenate rows into new data frame
tokyo_health = pd.concat([tokyo,kawagoe,saitama,chiba,
                shinkawasaki,yokohama,hachioji]).sort_values(by = 'City').reset_index(drop = True)

tokyo_health
```

	City	Latitude	Longitude	Country	ID	Admin	Capital	Population	Population Proper
0	Chiba	35.600000	140.116667	Japan	JP	Chiba	admin	NaN	NaN
1	Hachioji	35.655833	139.323889	Japan	JP	Tōkyō	NaN	579399.0	579399.0
2	Kawagoe	35.908611	139.485278	Japan	JP	Saitama	NaN	337931.0	337931.0
3	Saitama	35.900000	139.650000	Japan	JP	Saitama	admin	NaN	NaN
4	Shinkawasaki	35.550193	139.670327	Japan	JP	Kanagawa	NaN	1437266.0	1306785.0
5	Tokyo	35.685000	139.751389	Japan	JP	Tōkyō	primary	35676000.0	8336599.0
6	Yokohama	35.433333	139.650000	Japan	JP	Kanagawa	admin	3697894.0	3697894.0

Figure 1.7 – Cities Surrounding Tokyo

Similar to finding the medical centers around Tokyo, we develop a function to search for medical centers surrounding these 7 cities using the Foursquare API. We can simply use the initial method used and use it in a loop that qualifies all of the cities of interest. The resulting data frame contains all of the medical centers surrounding the cities in a 100,000 m radius.

Since we are interested in the distribution of the types and locations of medical facilities, we will need to normalize the data of distributed values. This is done through binarization or using the one-hot encoding method. This will list each individual location as either existent or non-existent in our cities of interest. This is done so that we can easily find our means without statistical noise.

```python
# Use one hot encoding method to determine unit distribution of the
# varying types of categories of medical centers per prefecture
# one hot encoding
mc_onehot = pd.get_dummies(mc_venues[['Facility Category']], prefix="", prefix_sep="")

# add neighborhood column back to dataframe
mc_onehot['City'] = mc_venues['City']

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

mc_onehot
```

Figure 1.8 – One-Hot Encoding Method

The resulting data frame should be a list of binary values that states whether a particular facility is present in our city.

	City	Doctor's Office	Hospital	Medical Center
0	Chiba	0	0	1
1	Chiba	0	0	1
2	Chiba	0	0	1
3	Chiba	0	0	1
4	Chiba	0	0	1
5	Chiba	0	0	1
6	Chiba	0	0	1
7	Chiba	0	0	1
8	Chiba	0	0	1
9	Chiba	0	0	1

Figure 1.9 – Cities with One-Hot Encoding

In the sample frame above, we see that the city of Chiba has at least 10 medical centers (this frame is 700 rows with binary value placements according to the initial distribution of medical facilities of each type in each city). We can now find the uniform distribution of each type of medical facility in each city.

	City	Doctor's Office	Hospital	Medical Center
0	Chiba	0.13	0.44	0.43
1	Hachioji	0.13	0.45	0.42
2	Kawagoe	0.13	0.43	0.44
3	Saitama	0.13	0.45	0.42
4	Shinkawasaki	0.13	0.47	0.40
5	Tokyo	0.13	0.44	0.43
6	Yokohama	0.13	0.47	0.40

Figure 1.10 – Uniform Distribution of Medical Facilities of Japanese Cities

Foursquare categorizes "Medical Center" into multiple sub categories. These definitions will be explored in a later phase. Three categories of these facilities are seen in the

distribution. This is important to note because when we initialize our K-Means cluster analysis, we are limited by the number of categories that are present in our data frame.

```python
# set number of clusters
kclusters = 5

mc_grouped_clustering = mc_grouped.drop('City', 1)

# run k-means clustering
kmeans = KMeans(n_clusters=kclusters, random_state=0).fit(mc_grouped_clustering)

# check cluster labels generated for each row in the dataframe
kmeans.labels_[0:10]
```
```
/anaconda3/lib/python3.7/site-packages/sklearn/cluster/k_means_.py:971: ConvergenceWarning: Number of distinct cluste
rs (4) found smaller than n_clusters (5). Possibly due to duplicate points in X.
  return n_iter=True)
array([1, 2, 3, 2, 0, 1, 0], dtype=int32)
```
```python
# add clustering labels
mc_sorted.insert(0, 'Cluster Labels', kmeans.labels_)

mc_merged = tokyo_health

# merge to add latitude/longitude for each city
mc_merged = mc_merged.join(mc_sorted.set_index('City'), on='City')
mc_merged.head()
```

Figure 1.11 – Initialization of K-Means Algorithm

The K-Means Algorithm developed above will categorize the cities by their relative distribution and relative geographical location. This unsupervised type of analysis allows for the self-organization of the data, as more data is added to the data set (expansion of cities). Once the data is organized with their corresponding cluster labels, we can plot them on our folium map to observe the definitions of each cluster and what they can contribute to our analysis.

Results

We initialize our map with our clusters to observe the relationship of medical center accessibility to varying prefectures in the region of interest.
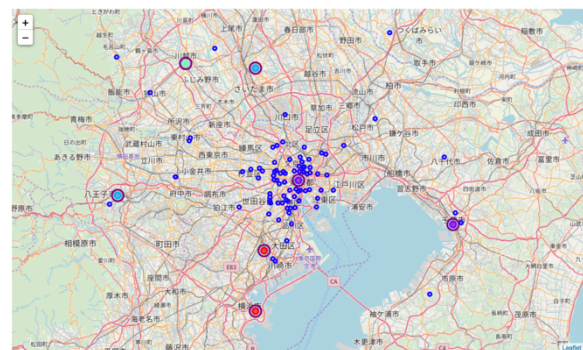

Figure 2.1 – Japan Cluster Map

Discussion

Based on the map of clusters that was generated, we can clearly see that there are 4 clusters established by our algorithm. We can observe the basis for the cluster groups by calling the specific rows of each particular cluster group from the final data frame.

	City	Admin	Capital	Population	Population Proper	Cluster Labels	1st Most Common Facility	2nd Most Common Facility	3rd Most Common Facility
0	Shinkawasaki	Kanagawa	NaN	1437266.0	1306785.0	0	Hospital	Medical Center	Doctor's Office
1	Yokohama	Kanagawa	admin	3697894.0	3697894.0	0	Hospital	Medical Center	Doctor's Office

Figure 3.1 – Cluster 0: Shinkawasaki and Yokohama

	City	Admin	Capital	Population	Population Proper	Cluster Labels	1st Most Common Facility	2nd Most Common Facility	3rd Most Common Facility
0	Chiba	Chiba	admin	NaN	NaN	1	Hospital	Medical Center	Doctor's Office
1	Tokyo	Tōkyō	primary	35676000.0	8336599.0	1	Hospital	Medical Center	Doctor's Office

Figure 3.2 – Cluster 1: Chiba and Tokyo

	City	Admin	Capital	Population	Population Proper	Cluster Labels	1st Most Common Facility	2nd Most Common Facility	3rd Most Common Facility
0	Hachioji	Tōkyō	NaN	579399.0	579399.0	2	Hospital	Medical Center	Doctor's Office
1	Saitama	Saitama	admin	NaN	NaN	2	Hospital	Medical Center	Doctor's Office

Figure 3.3 – Cluster 2: Hachioji and Saitama

	City	Admin	Capital	Population	Population Proper	Cluster Labels	1st Most Common Facility	2nd Most Common Facility	3rd Most Common Facility
0	Kawagoe	Saitama	NaN	337931.0	337931.0	3	Hospital	Medical Center	Doctor's Office

Figure 3.4 – Cluster 3: Kawagoe

The all of the categories show the same rankings for the top distribution of medical facilities. This is validated by referring back to the means of our uniform distribution table (*Figure 1.10)* and observing that the distribution means are very similar. This asserts that the K-Means cluster groups are primarily categorized by region. We see that Shinkawasaki and Yokohama are in their own cluster and they happen to be the most southern cities in this particular region. Kawagoe is in its own cluster as well and happens to be the most northern city. However, there seems to be a discrepancy for the two other cluster groups as the distance between the cities within their respective groups do not show correlation as to why they are grouped together. Referring back to the uniform distribution table, we see that the reason they are grouped together is because their distribution means are exactly the same.

Conclusion

Based on the cluster analysis, we can observe the types of medical facilities that are most abundant in the varying cities surrounding Tokyo. Some factors that contribute to the definition of these cluster groups include the first, second, and third degree of similar facility types distributed around these particular regions, the respective distribution frequencies of each type of facility, and the distance to each other. For example, the two most southern cities, Yokohama and Shinkawasaki, both share the same region (south of Tokyo) and both share the same relative distribution of Medical Facility types (Hospital, Medical Center, and Doctor's Office).

Further analysis and processing of data from the 'jhealth' table [2] will be used to explore implications of population of each prefecture and the rate at which these medical facilites are able to move patients from the inpatient stage to the outpatient stage. The categories of each Medical Facility should also be clearly outlined to distinguish key differences in optimization and functionality.

Some remarks for further phases include the observation of more focused regions to create a more diverse and accurate representation of the relative access each region has to different types of health care facilities.

References
[1]"Japan Cities Database | Simplemaps.com", *Simplemaps.com*, 2019. [Online]. Available: https://simplemaps.com/data/jp-cities. [Accessed: 28- Jun- 2019].

[2]"System of Social and Demographic Statistics Prefectural Data Social Indicators by PrefectureSystem of Social and Demographic Statistics 0000010209 System of Social and Demographic Statistics I Health and Medical Care | View Statistical Table/Graph | Portal Site of Official Statistics of Japan", *Portal Site of Official Statistics of Japan*, 2019. [Online]. Available: https://www.e-stat.go.jp/en/dbview?sid=0000010209. [Accessed: 28- Jun- 2019].

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= Applied Data Science Capstone Project

[[major-japanese-cities-and-access-to-healthcare]]
=== Major Japanese Cities and Access to Healthcare

[[kordell-mitchell-bernaldez-tan]]
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Biomedical and Clinical Enginnering | Electrical Engineering

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[[this-notebook-will-be-used-for-the-organization-and-implementation-of-data-structures-and-analysis-of-populations-in-major-cities-in-japan-and-respective-access-to-healthcare-facilities-using-python-libraries-as-well-as-investigating-the-correlation-between-in-patient-and-outpatient-numbers-and-locations-of-treatment.-healthcare-data-was-measured-between-1975-and-2016.]]
==== This notebook will be used for the organization and implementation
of data structures and analysis of populations in major cities in Japan
and respective access to healthcare facilities, using Python libraries,
as well as investigating the correlation between in-patient and
outpatient numbers and locations of treatment. Healthcare data was
measured between 1975 and 2016.

[[import-python-libraries]]
=== Import Python Libraries

+*In[1]:*+
[source, ipython3]

# IMPORT LIBRARIES FOR DATA PROCESSING
import numpy as np
import pandas as pd
import requests
import json

# Library to convert json retrieval into a dataframe
from pandas.io.json import json_normalize

# 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

IMPORT FOLIUM
#!conda install -c conda-forge folium=0.5.0 --yes
import folium
print('FOLIUM LIBRARY SUCCESSFULLY INSTALLED.')

+*Out[1]:*+

FOLIUM LIBRARY SUCCESSFULLY INSTALLED.

[[read-.csv-and-.xls-files-into-pandas-dataframes]]
=== Read .CSV and .XLS Files into Pandas Dataframes

+*In[2]:*+
[source, ipython3]

Read .csv files and convert to a pandas dataframe
    # Population of Japanese Cities downloaded from 'https://simplemaps.com/data/jp-cities'
jp_pop = pd.read_csv('jp_population.csv')

    # Health Statistics and Data of Japan Prefectures (1975-2017)
    # Downloaded from 'https://knoema.com/JP10209/health-and-medical-care-statistics-of-japan-social-indicators-by-prefecture?regionId=JP'
jhealth = pd.read_excel('japan_healthcare_data.xls')

print('Data files were succesfully read into the notebook.')

+*Out[2]:*+

Data files were succesfully read into the notebook.

+*In[3]:*+
[source, ipython3]

# View the imported data sets
# Format header of population table and display
jp_pop.columns = ['City','Latitude','Longitude','Country','ID','Admin','Capital','Population','Population Proper']
jp_pop.head()

+*Out[3]:*+

[cols=",,,,,,,,",options="header",]

	City	Latitude	Longitude	Country	ID	Admin	Capital	Population	Population Proper
0	Tokyo	35.685000	139.751389	Japan	JP	Tōkyō	primary	35676000.0	8336599.0
1	Ōsaka	34.683333	135.516667	Japan	JP	Ōsaka	admin	11294000.0	2592413.0
2	Yokohama	35.433333	139.650000	Japan	JP	Kanagawa	admin	3697894.0	3697894.0
3	Nagoya	35.183333	136.900000	Japan	JP	Aichi	admin	3230000.0	2191279.0

| |4 |Fukuoka |33.600000 |130.416667 |Japan |JP |Fukuoka |admin |2792000.0 |1392289.0 |
|==

[[formatting-datasets]]
=== Formatting Datasets

+*In[4]:*+
[source, ipython3]

# Organize table by alphabetical order of cities and reindex
jp_pop = jp_pop.sort_values(by = 'City')
jp_pop = jp_pop.reset_index(drop = True)
jp_pop['City'] = jp_pop['City'].str.replace('ō','o').str.replace('Ō','O')
jp_pop.head()

+*Out[4]:*+

[cols=",,,,,,,,,",options="header",]
|==
| |City |Latitude |Longitude |Country |ID |Admin |Capital |Population |Population Proper
|0 |Akita |39.716667 |140.100000 |Japan |JP |Akita |admin |320069.0 |281856.0

|1 |Aomori |40.816667 |140.733333 |Japan |JP |Aomori |admin |298394.0 |264749.0

|2 |Asahikawa |43.767778 |142.370278 |Japan |JP |Hokkaidō |NaN |356612.0 |325547.0

|3 |Ashino |43.015176 |144.397259 |Japan |JP |Hokkaidō |NaN |198566.0 |183612.0

|4 |Chiba |35.600000 |140.116667 |Japan |JP |Chiba |admin |NaN |NaN
|==

+*In[5]:*+
[source, ipython3]

# We remove the top 10 rows of unnecessary data from 'jhealth'
for i in range(10):
    jhealth.drop(jhealth.index[0],inplace = True)

jhealth.head()

+*Out[5]:*+

[cols=",,,,,,,,,,,,,,,,,,,",options="header",]
|==
| |Statistics name : |Prefectural Data Social Indicators by Prefecture |Unnamed: 2 |Unnamed: 3 |Unnamed: 4 |Unnamed: 5 |Unnamed: 6 |Unnamed: 7 |Unnamed: 8 |Unnamed: 9 |... |Unnamed: 179 |Unnamed: 180 |Unnamed: 181 |Unnamed: 182 |Unnamed: 183 |Unnamed: 184 |Unnamed: 185 |Unnamed: 186 |Unnamed: 187 |Unnamed: 188
|10 |SURVEY YEAR Code |SURVEY YEAR |AREA Code |AREA |/I Health and Medical Care |#I0210101_Height, male of the fifth grade (ele... |Annotation |#I0210102_Height, female of the fifth grade (e... |Annotation |#I0210103_Height, male of the second grade (ju... |... |#I1520302_Cases of benefits paid (per 1,000 de... |Annotation |#I1520401_Amount of benefits paid (per person ... |Annotation |#I1520402_Amount of benefits paid (per depende... |Annotation |#I1520501_Amount of benefits paid (per person ... |Annotation |#I1520502_Amount of benefits paid (per depende... |Annotation

|11 |1975100000 |1975 |0 |All Japan |NaN |136.4 |NaN |137.6 |NaN |156.1 |... |*** |NaN |*** |NaN |*** |NaN |*** |NaN |*** |NaN

|12 |1975100000 |1975 |1000 |Hokkaido |NaN |136.6 |NaN |137.2 |NaN |156.4 |... |*** |NaN |*** |NaN |*** |NaN |*** |NaN |*** |NaN

|13 |1975100000 |1975 |2000 |Aomori-ken |NaN |136.5 |NaN |138.5 |NaN |156.1 |... |*** |NaN |*** |NaN |*** |NaN |*** |NaN |*** |NaN

|14 |1975100000 |1975 |3000 |Iwate-ken |NaN |136.8 |NaN |138.1 |NaN |156.2 |... |*** |NaN |*** |NaN |*** |NaN |*** |NaN |*** |NaN
|==

5 rows × 189 columns

+*In[6]:*+
[source, ipython3]

# Use the first row information as the header information
jhealth.columns = jhealth.iloc[0]

+*In[7]:*+
[source, ipython3]

# Assign interested columns into variables to be concatenated
year = jhealth['SURVEY YEAR']
area = jhealth['AREA']
inpatients = jhealth['#I04102_New inpatients, general hospitals (per 100,000 persons)[person]']
outpatients = jhealth['#I0420102_Outpatients in general hospitals per day (per 100,000 persons)[person]']
mc_num = jhealth['#I0910103_General hospitals (per 100,000 persons)[hospitals]']

+*In[8]:*+
[source, ipython3]

```
----
# Concatenate rows of interest into new data frame 'data'
data = pd.concat([year,area,inpatients,outpatients,mc_num],axis = 1)
data.drop(data.index[0],inplace = True)

# Rename the data frame column headers and display
data.columns = ['Year','Prefecture','Inpatients','Outpatients','Hospitals per 100,000 persons']
data = data.reset_index(drop = True)
data.head()
----
```

+*Out[8]:*+

```
----
[cols=",,,,",options="header",]
|=======================================================================
| |Year |Prefecture |Inpatients |Outpatients |Hospitals per 100,000
persons
|0 |1975 |All Japan |5400.6 |920.8 |6.5

|1 |1975 |Hokkaido |6375.8 |1156.2 |8.1

|2 |1975 |Aomori-ken |5358.7 |1116.8 |6.3

|3 |1975 |Iwate-ken |5611.8 |1107.2 |6.1

|4 |1975 |Miyagi-ken |5036.5 |952.7 |6.2
|=======================================================================
----
```

+*In[9]:*+
[source, ipython3]

```
----
# For easier access and key relationship, we format 'Prefecture' names and remove suffix
data['Prefecture'] = data['Prefecture'].str.replace('-ken', '').str.replace('-to', '').str.replace('-fu', '')

# Sort values by year in descending order
data.sort_values(by = 'Year',ascending = False,inplace = True)
data = data.reset_index(drop = True)

# Only concerned with data acquired in year 2016
for i in range(48):
    data.drop(data.index[0],inplace = True)
data = data.reset_index(drop = True)
data.head()
----
```

+*Out[9]:*+

```
----
[cols=",,,,",options="header",]
|=======================================================================
| |Year |Prefecture |Inpatients |Outpatients |Hospitals per 100,000
persons
|0 |2016 |Saitama |8728.8 |837.2 |4

|1 |2016 |Gifu |11459.9 |1021.5 |4.5

|2 |2016 |Nagano |13917.2 |1200.1 |5.5

|3 |2016 |Yamanashi |12015.8 |1096 |6.3

|4 |2016 |Fukui |13988 |1318.4 |7.4
|=======================================================================
----
```

+*In[10]:*+
[source, ipython3]

```
----
# Assing 2016 data under new variable name and sort by prefecture title
d2016 = data.iloc[0:48].sort_values('Prefecture')

# Remove 'All Japan' information] and display
d2016.drop(d2016.index[2],inplace = True)
d2016 = d2016.reset_index(drop = True)
d2016.head()
----
```

+*Out[10]:*+

```
----
[cols=",,,,",options="header",]
|=======================================================================
| |Year |Prefecture |Inpatients |Outpatients |Hospitals per 100,000
persons
|0 |2016 |Aichi |10874 |870.3 |3.8

|1 |2016 |Akita |13892.4 |1220.4 |5.2

|2 |2016 |Aomori |11987.9 |1016.1 |6.2

|3 |2016 |Chiba |10306.3 |953.8 |4

|4 |2016 |Ehime |14253.1 |1306.7 |9.2
|=======================================================================
----
```

[[generating-the-map-of-japan-using-folium]]
=== Generating the Map of Japan using Folium

+*In[11]:*+
[source, ipython3]

```
----
# Folium Map of Japan and Prefectures
    # We will observe the healthcare facilities surrounding Tokyo
latitude = 35.685
longitude = 139.751389
```

```python
# create map of Japan using latitude and longitude values
map_japan = folium.Map(location=[latitude, longitude], zoom_start=10)

# add markers to map using data retrieved on jp_pop table
for lat, lng, label, in zip(jp_pop['Latitude'], jp_pop['Longitude'], jp_pop['City']):
    label = folium.Popup(label, parse_html=True)
    folium.CircleMarker(
        [lat, lng],
        radius=10,
        popup=label,
        color='purple',
        fill=True,
        fill_color='#9589dc',
        fill_opacity=.5,
        parse_html=False).add_to(map_japan)
```

[[foursquare-api-access]]
=== Foursquare API Access

+*In[12]:*+
[source, ipython3]

```python
CLIENT_ID = 'XHANL3JB2NMHC1MD1M40V5NS1D3QGZ4JBMQYNCEJEWRBIYAS' # your Foursquare ID
CLIENT_SECRET = 'KHALW35X3ZHBNFXQJNSVHRT4QUTEVYV2JYFQGYCNFA5BW5UD' # your Foursquare Secret
VERSION = '20180605' # Foursquare API version

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

+*Out[12]:*+

Your credentails:
CLIENT_ID: XHANL3JB2NMHC1MD1M40V5NS1D3QGZ4JBMQYNCEJEWRBIYAS
CLIENT_SECRET:KHALW35X3ZHBNFXQJNSVHRT4QUTEVYV2JYFQGYCNFA5BW5UD

+*In[13]:*+
[source, ipython3]

```python
# Define Foursquare API hospital code
med_center = '4bf58dd8d48988d104941735'
```

+*In[14]:*+
[source, ipython3]

```python
# Create the request for hospital venues
radius = 100000
LIMIT = 1000000000

url = 'https://api.foursquare.com/v2/venues/explore?&client_id={}&client_secret={}&categoryId={}&v={}&ll={},{}&radius={}&limit={}'.format(
    CLIENT_ID,
    CLIENT_SECRET,
    med_center,
    VERSION,
    latitude,
    longitude,
    radius,
    LIMIT)
```

+*In[15]:*+
[source, ipython3]

```python
# Call request to Foursquare database and display
results = requests.get(url).json()
results
```

+*Out[15]:*+

```
{'meta': {'code': 200, 'requestId': '5d1678c8342adf0038ef8f69'},
 'response': {'suggestedFilters': {'header': 'Tap to show:',
   'filters': [{'name': 'Open now', 'key': 'openNow'}]},
  'headerLocation': 'Tokyo',
  'headerFullLocation': 'Tokyo',
  'headerLocationGranularity': 'city',
  'query': 'medical',
  'totalResults': 252,
  'suggestedBounds': {'ne': {'lat': 36.5850009000009,
    'lng': 140.8573732175807},
   'sw': {'lat': 34.784999099999105, 'lng': 138.6454047824193}},
  'groups': [{'type': 'Recommended Places',
    'name': 'recommended',
    'items': [{'reasons': {'count': 0,
       'items': [{'summary': 'This spot is popular',
         'type': 'general',
         'reasonName': 'globalInteractionReason'}]},
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       'name': 'akiba:F 献血ルーム',
       'location': {'address': '外神田1-16-9',
        'crossStreet': '朝風二号館ビル 5F',
        'lat': 35.697689525355095,
        'lng': 139.77249322340495,
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          'lng': 139.77249322340495}],
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        'postalCode': '101-0021',
        'cc': 'JP',
        'city': '東京',
        'state': '東京都',
        'country': '日本',
```

  'formattedAddress': ['外神田1-16-9 (朝風二号館ビル 5F)',
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   '101-0021',
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   'shortName': 'Medical',
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    'suffix': '.png'},
   'primary': True}],
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   'lat': 35.633548840904034,
   'lng': 139.61204269320447,
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   'cc': 'JP',
   'city': '東京',
   'state': '東京都',
   'country': '日本',
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    'pluralName': 'Medical Centers',
    'shortName': 'Medical',
    'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/building/medical_',
     'suffix': '.png'},
    'primary': True}],
  'photos': {'count': 0, 'groups': []}},
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   'type': 'general',
   'reasonName': 'globalInteractionReason'}]},
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  'name': 'Japan Red Cross Medical Center (日本赤十字社医療センター)',
  'location': {'address': '広尾4-1-22',
   'lat': 35.65483091397713,
   'lng': 139.71775516303563,
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    'lng': 139.71775516303563}],
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   'city': '渋谷区',
   'state': '東京都',
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    'shortName': 'Medical',
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    'primary': True}],
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    'pluralName': 'Medical Centers',
    'shortName': 'Medical',
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     'suffix': '.png'},
    'primary': True}],
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 'referralId': 'e-0-4bd7c9685cf276b096109c00-3'},
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   'type': 'general',
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   'lng': 139.77749953412084,
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   'lng': 139.72233742793057,
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    'shortName': 'Medical',
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    'primary': True}],
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   'state': '東京都',
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    'shortName': 'Medical',
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    'reasonName': 'globalInteractionReason'}]},
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   'name': "Tokyo Women's Medical University Yachiyo Medical Center (東京女子医科大学 八千代医療センター)",
   'location': {'address': '大和田新田477-96',
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    'lng': 140.09673357009888,
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    'postalCode': '276-8524',
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    'state': '千葉県',
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  'labeledLatLngs': [{'label': 'display',
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  'cc': 'JP',
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  'state': '東京都',
  'country': '日本',
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   '文京区, 東京都',
   '113-8655',
   '日本']},
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   'state': '東京都',
   'country': '日本',
   'formattedAddress': ['東大井6-3-22', '品川区, 東京都', '140-8522', '日本']},
  'categories': [{'id': '4bf58dd8d48988d196941735',
   'name': 'Hospital',
   'pluralName': 'Hospitals',
   'shortName': 'Hospital',
   'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/building/medical_',

```
          'suffix': '.png'},
        'primary': True}],
      'photos': {'count': 0, 'groups': []}},
    'referralId': 'e-0-4b85e06bf964a5206e7731e3-99'}]}]}}----
```

+*In[16]:*+
[source, ipython3]

```
# Foursquare API 'Get Categories' Function Definition
    # function that extracts the category of the medical facility
def get_category_type(row):
    try:
        categories_list = row['categories']
    except:
        categories_list = row['venue.categories']

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

+*In[17]:*+
[source, ipython3]

```
# Filtering and Organizing retrieved venues and relative categories
venues = results['response']['groups'][0]['items']

# flatten JSON
med_centers = json_normalize(venues)

# filter columns
filtered_columns = ['venue.name', 'venue.categories', 'venue.location.lat', 'venue.location.lng']

# Store all rows and filtered_columns in new dataframe 'nearby_venues'
med_centers = med_centers.loc[:, filtered_columns]

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

# clean columns
med_centers.columns = [col.split(".")[-1] for col in med_centers.columns]

med_centers.head()
```

+*Out[17]:*+

[cols=",,,,",options="header",]
|===
| |name |categories |lat |lng
|0 |akiba:F 献血ルーム |Medical Center |35.697690 |139.772493

|1 |国立成育医療研究センター |Medical Center |35.633549 |139.612043

|2 |Japan Red Cross Medical Center (日本赤十字社医療センター) |Medical
Center |35.654831 |139.717755

|3 |鶯谷健診センター |Medical Center |35.725696 |139.775926

|4 |St. Luke's Hospital (聖路加国際病院) |Medical Center |35.667372
|139.777500
|===

+*In[18]:*+
[source, ipython3]

```
# Organize data set by category and display
med_centers.sort_values(by = 'categories',inplace=True)
med_centers = med_centers.reset_index(drop = True)

# Shows all rows and columns, regardless of size
pd.set_option('display.max_rows', None)
pd.set_option('display.max_columns',None)
med_centers.columns = ['Name','Category','lat','lng']

# Display nearby_venues and categories, with locations
display(med_centers)
```

+*Out[18]:*+

[cols=",,,,",options="header",]
|===
| |Name |Category |lat |lng
|0 |社会医療法人財団 石心会 さやま総合クリニック |Doctor's Office
|35.853096 |139.401460

|1 |新橋トラストクリニック |Doctor's Office |35.666350 |139.756028

|2 |Tokyo Midtown Clinic (東京ミッドタウンクリニック) |Doctor's Office
|35.666244 |139.731219

|3 |川崎幸クリニック |Doctor's Office |35.534934 |139.690485

|4 |春日クリニック |Doctor's Office |35.711892 |139.752365

|5 |はしもと内科クリニック |Doctor's Office |35.810866 |139.720307

|6 |ひもんや外科内科クリニック |Doctor's Office |35.620360 |139.681653

|7 |フィオーレ健診クリニック |Doctor's Office |35.698028 |139.709052

|8 |オーバルコート健診クリニック |Doctor's Office |35.623107 |139.729029
```

|9 |深川ギャザリアクリニック |Doctor's Office |35.666736 |139.804728

|10 |フェニックスメディカルクリニック 本館 |Doctor's Office |35.678246 |139.705671

|11 |愛育病院 |Doctor's Office |35.646179 |139.752582

|12 |きらく内科クリニック |Doctor's Office |35.697500 |139.797336

|13 |東京女子医科大学病院 総合外来センター |Hospital |35.698489 |139.720175

|14 |University of Tokyo Hospital (東京大学医学部附属病院) |Hospital |35.710694 |139.764522

|15 |Keio University Hospital (慶應義塾大学病院) |Hospital |35.681527 |139.718027

|16 |永寿総合病院 |Hospital |35.709898 |139.779683

|17 |Tokyo Women's Medical University Hospital (東京女... |Hospital |35.698356 |139.719684

|18 |National Cancer Center Hospital (国立がん研究センター中央病院) |Hospital |35.665488 |139.768159

|19 |東京慈恵会医科大学附属病院 外来棟 |Hospital |35.663454 |139.751387

|20 |JCHO東京新宿メディカルセンター |Hospital |35.703452 |139.742318

|21 |Juntendo University Hospital (順天堂大学医学部附属 順天堂医院) |Hospital |35.702272 |139.762504

|22 |東京医科歯科大学医学部附属病院 |Hospital |35.701114 |139.764175

|23 |東京医科歯科大学 歯学部附属病院 |Hospital |35.700886 |139.764492

|24 |Toranomon Hospital (虎の門病院) |Hospital |35.668780 |139.746678

|25 |三井記念病院 |Hospital |35.700022 |139.778912

|26 |慶應義塾大学病院1号館 |Hospital |35.681338 |139.718941

|27 |IUHW Mita Hospital (国際医療福祉大学 三田病院) |Hospital |35.653713 |139.742446

|28 |東京都立 大塚病院 |Hospital |35.725157 |139.731279

|29 |日本大学医学部附属板橋病院 |Hospital |35.749082 |139.691841

|30 |Teikyo University Hospital (帝京大学医学部附属病院) |Hospital |35.758916 |139.713983

|31 |豊島病院 |Hospital |35.752404 |139.701276

|32 |東京警察病院 |Hospital |35.709094 |139.659405

|33 |立正佼成会附属 佼成病院 |Hospital |35.689777 |139.656170

|34 |東京都リハビリテーション病院 |Hospital |35.735779 |139.816094

|35 |国家公務員共済組合連合会 三宿病院 |Hospital |35.641969 |139.685258

|36 |自衛隊中央病院 |Hospital |35.644779 |139.684774

|37 |Tokyo Women's Medical University Medical Cente... |Hospital |35.748391 |139.765294

|38 |東邦大学医療センター大橋病院 |Hospital |35.652510 |139.684220

|39 |Cancer Institute Hospital (がん研有明病院) |Hospital |35.633946 |139.794744

|40 |Tokyo Kyosai Hospital (東京共済病院) |Hospital |35.641217 |139.703531

|41 |Seibo Hospital (聖母病院) |Hospital |35.720273 |139.694606

|42 |NTT Medical Center Tokyo (NTT東日本関東病院) |Hospital |35.631210 |139.725698

|43 |Tokyo Shinagawa Hospital (東京高輪病院) |Hospital |35.631449 |139.732125

|44 |東京都立墨東病院 |Hospital |35.694955 |139.818320

|45 |厚生中央病院 |Hospital |35.641488 |139.712598

|46 |品川シーズンテラス健診クリニック |Hospital |35.632266 |139.743083

|47 |昭和大学江東豊洲病院 |Hospital |35.650253 |139.796240

|48 |Tokyo Medical University Hospital (東京医科大学病院) |Hospital |35.693644 |139.692003

|49 |東京山手メディカルセンター |Hospital |35.704301 |139.699342

|50 |都立駒込病院 |Hospital |35.729939 |139.755663

|51 |北里研究所病院 |Hospital |35.645257 |139.726385

|52 |Center Hospital of the National Center for Glo... |Hospital |35.701708 |139.716260

|53 |東京歯科大学 水道橋病院 |Hospital |35.701420 |139.754750

|54 |Tokyo-Shinagawa Hospital (東京品川病院) |Hospital |35.601756 |139.734810

|55 |昭和大学病院附属東病院 |Hospital |35.609807 |139.705365

|56 |保健センター本郷支所 |Hospital |35.709264 |139.763195

|57 |東京都立小児総合医療センター |Hospital |35.692145 |139.460685

|58 |太田記念病院 |Medical Center |36.298784 |139.360112

|59 |順天堂東京江東高齢者医療センター |Medical Center |35.665818 |139.833521

|60 |保健センター駒場支所 |Medical Center |35.659373 |139.683839

|61 |総合検診センター ヘルチェック 新宿西口センター |Medical Center |35.686735 |139.694544

|62 |ハイメディック・東大病院 |Medical Center |35.710572 |139.765116

|63 |杉並保健所 |Medical Center |35.702270 |139.619959

|64 |多摩総合医療センター |Medical Center |35.692046 |139.461426

|65 |日本医科大学付属病院 |Medical Center |35.720718 |139.759709

|66 |Tokyo Women's Medical University Yachiyo Medic... |Medical Center |35.730192 |140.096734

|67 |茨城県立中央病院 |Medical Center |36.350384 |140.320532

|68 |東京リバーサイド病院 |Medical Center |35.737703 |139.807077

|69 |埼玉医科大学国際医療センター |Medical Center |35.921375 |139.322160

|70 |Tokyo Metropolitan Hiroo Hospital (東京都立広尾病院) |Medical Center |35.646944 |139.722337

|71 |関東ITソフトウェア健康保険組合 大久保健診センター |Medical Center |35.701846 |139.695944

|72 |St. Luke's Hospital (聖路加国際病院) |Medical Center |35.667372 |139.777500

|73 |鴬谷健診センター |Medical Center |35.725696 |139.775926

|74 |Japan Red Cross Medical Center (日本赤十字社医療センター) |Medical Center |35.654831 |139.717755

|75 |国立成育医療研究センター |Medical Center |35.633549 |139.612043

|76 |JR東京総合病院 |Medical Center |35.685145 |139.700143

|77 |The Jikei University Katsushika Medical Center... |Medical Center |35.751822 |139.858653

|78 |かわさきルフロン献血ルーム |Medical Center |35.529890 |139.696873

|79 |水戸医療センター |Medical Center |36.324884 |140.409507

|80 |自治医科大学附属病院 |Medical Center |36.398262 |139.860039

|81 |とちぎメディカルセンターしもつが |Medical Center |36.365774 |139.727186

|82 |埼玉県立 循環器・呼吸器病センター |Medical Center |36.111488 |139.304829

|83 |霞ヶ浦医療センター |Medical Center |36.072507 |140.192701

|84 |Eisei Hospital (永生病院) |Medical Center |35.639401 |139.305180

|85 |JA茨城西南医療センター病院 |Medical Center |36.119115 |139.796032

|86 |帝京大学ちば総合医療センター |Medical Center |35.466445 |140.062312

|87 |総合守谷第一病院 |Medical Center |35.967472 |139.966982

|88 |東邦大学医療センター 大森病院 |Medical Center |35.569266 |139.723843

|89 |Chiba University Hospital (千葉大学医学部附属病院) |Medical Center |35.603818 |140.136001

|90 |埼玉県総合リハビリテーションセンター |Medical Center |35.938461 |139.553583

|91 |多摩北部医療センター |Medical Center |35.760666 |139.493048

|92 |上都賀総合病院 |Medical Center |36.560955 |139.750486

|93 |茨城県メディカルセンター |Medical Center |36.351408 |140.461303

|94 |国立療養所多磨全生園 |Medical Center |35.766269 |139.496520

|95 |河北総合病院 本院 |Medical Center |35.706654 |139.638903

|96 |松戸市立総合医療センター |Medical Center |35.802918 |139.932432

|97 |中野総合病院 |Medical Center |35.702901 |139.666990

|98 |千葉医療センター |Medical Center |35.623107 |140.122097

|99 |akiba:F 献血ルーム |Medical Center |35.697690 |139.772493

|===============================================================
----


+*In[19]:*+
[source, ipython3]
----
# Map surrounding medical facilities onto map
for lat, lng, label, in zip(med_centers['lat'], med_centers['lng'], med_centers['Name']):
    label = folium.Popup(label, parse_html=True)
    folium.CircleMarker(
        [lat, lng],
        radius=3,
        popup=label,
        color='blue',
        fill=True,
        fill_color='#1089dc',
        fill_opacity=.1,
        parse_html=False).add_to(map_japan)

map_japan
----


+*Out[19]:*+
----

----


+*In[20]:*+
[source, ipython3]
----
# Analyze access to facilities in regards to the cities surrounding Tokyo
tokyo = jp_pop[jp_pop['City'] == 'Tokyo']
kawagoe = jp_pop[jp_pop['City'] == 'Kawagoe']
saitama = jp_pop[jp_pop['City'] == 'Saitama']
chiba = jp_pop[jp_pop['City'] == 'Chiba']
shinkawasaki = jp_pop[jp_pop['City'] == 'Shinkawasaki']
yokohama = jp_pop[jp_pop['City'] == 'Yokohama']
hachioji = jp_pop[jp_pop['City'] == 'Hachioji']

# Concatenate rows into new data frame
tokyo_health = pd.concat([tokyo,kawagoe,saitama,chiba,
                        shinkawasaki,yokohama,hachioji]).sort_values(by = 'City').reset_index(drop = True)
tokyo_health
----


+*Out[20]:*+
----
[cols=",,,,,,,,,",options="header",]
|===============================================================
| |City |Latitude |Longitude |Country |ID |Admin |Capital |Population
|Population Proper
|0 |Chiba |35.600000 |140.116667 |Japan |JP |Chiba |admin |NaN |NaN

|1 |Hachioji |35.655833 |139.323889 |Japan |JP |Tōkyō |NaN |579399.0
|579399.0

|2 |Kawagoe |35.908611 |139.485278 |Japan |JP |Saitama |NaN |337931.0
|337931.0

|3 |Saitama |35.900000 |139.650000 |Japan |JP |Saitama |admin |NaN |NaN

|4 |Shinkawasaki |35.550193 |139.670327 |Japan |JP |Kanagawa |NaN
|1437266.0 |1306785.0

|5 |Tokyo |35.685000 |139.751389 |Japan |JP |Tōkyō |primary |35676000.0
|8336599.0

|6 |Yokohama |35.433333 |139.650000 |Japan |JP |Kanagawa |admin
|3697894.0 |3697894.0
|===============================================================
----


+*In[21]:*+
[source, ipython3]
----
def getNearbyMC(names, latitudes, longitudes, radius=100000):

    mc_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={}&categoryId={}&v={}&ll={},{}&radius={}&limit={}'.format(
            CLIENT_ID,
            CLIENT_SECRET,
            med_center,
            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
        mc_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_mc = pd.DataFrame([item for mc_list in mc_list for item in mc_list])
    nearby_mc.columns = ['City',

```
                'City Latitude',
                'City Longitude',
                'Medical Facility',
                'Facility Latitude',
                'Facility Longitude',
                'Facility Category']

    return(nearby_mc)
----


+*In[22]:*+
[source, ipython3]
----
# Obtain Medical Facility information in Tokyo and the surrounding cities
mc_venues = getNearbyMC(names = tokyo_health['City'],
                        latitudes = tokyo_health['Latitude'],
                        longitudes = tokyo_health['Longitude']
                        )
mc_venues
----


+*Out[22]:*+
----
Chiba
Hachioji
Kawagoe
Saitama
Shinkawasaki
Tokyo
Yokohama

[cols=",,,,,,,",options="header",]
|=======================================================================
| |City |City Latitude |City Longitude |Medical Facility |Facility
Latitude |Facility Longitude |Facility Category
|0 |Chiba |35.600000 |140.116667 |akiba:F 献血ルーム |35.697690
|139.772493 |Medical Center

|1 |Chiba |35.600000 |140.116667 |国立成育医療研究センター |35.633549
|139.612043 |Medical Center

|2 |Chiba |35.600000 |140.116667 |鶯谷健診センター |35.725696
|139.775926 |Medical Center

|3 |Chiba |35.600000 |140.116667 |Japan Red Cross Medical Center
(日本赤十字社医療センター) |35.654831 |139.717755 |Medical Center

|4 |Chiba |35.600000 |140.116667 |St. Luke's Hospital (聖路加国際病院)
|35.667372 |139.777500 |Medical Center

|5 |Chiba |35.600000 |140.116667 |関東ITソフトウェア健康保険組合
大久保健診センター |35.701846 |139.695944 |Medical Center

|6 |Chiba |35.600000 |140.116667 |Tokyo Metropolitan Hiroo Hospital
(東京都立広尾病院) |35.646944 |139.722337 |Medical Center

|7 |Chiba |35.600000 |140.116667 |Tokyo Women's Medical University
Yachiyo Medic... |35.730192 |140.096734 |Medical Center

|8 |Chiba |35.600000 |140.116667 |埼玉医科大学国際医療センター
|35.921375 |139.322160 |Medical Center

|9 |Chiba |35.600000 |140.116667 |JR東京総合病院 |35.685145 |139.700143
|Medical Center

|10 |Chiba |35.600000 |140.116667 |日本医科大学付属病院 |35.720718
|139.759709 |Medical Center

|11 |Chiba |35.600000 |140.116667 |埼玉医科大学 総合医療センター
|35.934419 |139.520018 |Medical Center

|12 |Chiba |35.600000 |140.116667 |Chiba University Hospital
(千葉大学医学部附属病院) |35.603818 |140.136001 |Medical Center

|13 |Chiba |35.600000 |140.116667 |千葉医療センター |35.623107
|140.122097 |Medical Center

|14 |Chiba |35.600000 |140.116667 |多摩総合医療センター |35.692046
|139.461426 |Medical Center

|15 |Chiba |35.600000 |140.116667 |順天堂東京江東高齢者医療センター
|35.665818 |139.833521 |Medical Center

|16 |Chiba |35.600000 |140.116667 |帝京大学ちば総合医療センター
|35.466445 |140.062312 |Medical Center

|17 |Chiba |35.600000 |140.116667 |松戸市立総合医療センター |35.802918
|139.932432 |Medical Center

|18 |Chiba |35.600000 |140.116667 |The Jikei University Katsushika
Medical Center... |35.751822 |139.858653 |Medical Center

|19 |Chiba |35.600000 |140.116667 |東京リバーサイド病院 |35.737703
|139.807077 |Medical Center

|20 |Chiba |35.600000 |140.116667 |ハイメディック・東大病院 |35.710572
|139.765116 |Medical Center

|21 |Chiba |35.600000 |140.116667 |東邦大学医療センター 大森病院
|35.569266 |139.723843 |Medical Center

|22 |Chiba |35.600000 |140.116667 |杉並保健所 |35.702270 |139.619959
|Medical Center

|23 |Chiba |35.600000 |140.116667 |かわさきルフロン献血ルーム |35.529890
|139.696873 |Medical Center
```

|24 |Chiba |35.600000 |140.116667 |総合検診センター ヘルチェック
新宿西口センター |35.686735 |139.694544 |Medical Center

|25 |Chiba |35.600000 |140.116667 |保健センター駒場支所 |35.659373
|139.683839 |Medical Center

|26 |Chiba |35.600000 |140.116667 |総合守谷第一病院 |35.967472
|139.966982 |Medical Center

|27 |Chiba |35.600000 |140.116667 |東海大学医学部付属八王子病院
|35.672877 |139.356900 |Hospital

|28 |Chiba |35.600000 |140.116667 |中野総合病院 |35.702901 |139.666990
|Medical Center

|29 |Chiba |35.600000 |140.116667 |霞ヶ浦医療センター |36.072507
|140.192701 |Medical Center

|30 |Chiba |35.600000 |140.116667 |河北総合病院 本院 |35.706654
|139.638903 |Medical Center

|31 |Chiba |35.600000 |140.116667 |国立療養所多磨全生園 |35.766269
|139.496520 |Medical Center

|32 |Chiba |35.600000 |140.116667 |多摩北部医療センター |35.760666
|139.493048 |Medical Center

|33 |Chiba |35.600000 |140.116667 |埼玉県総合リハビリテーションセンター
|35.938461 |139.553583 |Medical Center

|34 |Chiba |35.600000 |140.116667 |JA茨城西南医療センター病院 |36.119115
|139.796032 |Medical Center

|35 |Chiba |35.600000 |140.116667 |東京都立小児総合医療センター
|35.692145 |139.460685 |Hospital

|36 |Chiba |35.600000 |140.116667 |深川ギャザリアクリニック |35.666736
|139.804728 |Doctor's Office

|37 |Chiba |35.600000 |140.116667 |きらく内科クリニック |35.697500
|139.797336 |Doctor's Office

|38 |Chiba |35.600000 |140.116667 |高木病院 |35.793597 |139.305731
|Medical Center

|39 |Chiba |35.600000 |140.116667 |愛育病院 |35.646179 |139.752582
|Doctor's Office

|40 |Chiba |35.600000 |140.116667 |新橋トラストクリニック |35.666350
|139.756028 |Doctor's Office

|41 |Chiba |35.600000 |140.116667 |オーバルコート健診クリニック
|35.623107 |139.729029 |Doctor's Office

|42 |Chiba |35.600000 |140.116667 |春日クリニック |35.711892 |139.752365
|Doctor's Office

|43 |Chiba |35.600000 |140.116667 |Tokyo Midtown Clinic
(東京ミッドタウンクリニック) |35.666244 |139.731219 |Doctor's Office

|44 |Chiba |35.600000 |140.116667 |フェニックスメディカルクリニック 本館
|35.678246 |139.705671 |Doctor's Office

|45 |Chiba |35.600000 |140.116667 |フィオーレ健診クリニック |35.698028
|139.709052 |Doctor's Office

|46 |Chiba |35.600000 |140.116667 |川崎幸クリニック |35.534934
|139.690485 |Doctor's Office

|47 |Chiba |35.600000 |140.116667 |ひもんや外科内科クリニック |35.620360
|139.681653 |Doctor's Office

|48 |Chiba |35.600000 |140.116667 |Eisei Hospital (永生病院) |35.639401
|139.305180 |Medical Center

|49 |Chiba |35.600000 |140.116667 |水戸医療センター |36.324884
|140.409507 |Medical Center

|50 |Chiba |35.600000 |140.116667 |はしもと内科クリニック |35.810866
|139.720307 |Doctor's Office

|51 |Chiba |35.600000 |140.116667 |茨城県メディカルセンター |36.351408
|140.461303 |Medical Center

|52 |Chiba |35.600000 |140.116667 |自治医科大学附属病院 |36.398262
|139.860039 |Medical Center

|53 |Chiba |35.600000 |140.116667 |とちぎメディカルセンターしもつが
|36.365774 |139.727186 |Medical Center

|54 |Chiba |35.600000 |140.116667 |埼玉県立 循環器・呼吸器病センター
|36.111488 |139.304829 |Medical Center

|55 |Chiba |35.600000 |140.116667 |保健センター本郷支所 |35.709264
|139.763195 |Hospital

|56 |Chiba |35.600000 |140.116667 |千葉市立青葉病院 |35.601254
|140.138306 |Hospital

|57 |Chiba |35.600000 |140.116667 |千葉メディカルセンター |35.584485
|140.131001 |Hospital

|58 |Chiba |35.600000 |140.116667 |茨城県立中央病院 |36.350384
|140.320532 |Medical Center

|59 |Chiba |35.600000 |140.116667 |永寿総合病院 |35.709898 |139.779683
|Hospital

|60 |Chiba |35.600000 |140.116667 |千葉中央メディカルセンター |35.618107 |140.171515 |Hospital

|61 |Chiba |35.600000 |140.116667 |みつわ台総合病院 |35.646635 |140.143477 |Hospital

|62 |Chiba |35.600000 |140.116667 |千葉市立海浜病院 |35.628472 |140.051030 |Hospital

|63 |Chiba |35.600000 |140.116667 |千葉労災病院 |35.521158 |140.158192 |Hospital

|64 |Chiba |35.600000 |140.116667 |津田沼中央総合病院 |35.687025 |140.019074 |Hospital

|65 |Chiba |35.600000 |140.116667 |船橋整形外科クリニック |35.708553 |140.009763 |Hospital

|66 |Chiba |35.600000 |140.116667 |千葉徳洲会病院 |35.731854 |140.032243 |Hospital

|67 |Chiba |35.600000 |140.116667 |船橋中央病院 |35.705302 |139.969198 |Hospital

|68 |Chiba |35.600000 |140.116667 |Juntendo University Urayasu Hospital (順天堂大学医学部... |35.645308 |139.906325 |Hospital

|69 |Chiba |35.600000 |140.116667 |社会医療法人財団 石心会 さやま総合クリニック |35.853096 |139.401460 |Doctor's Office

|70 |Chiba |35.600000 |140.116667 |北総白井病院 |35.770172 |140.031751 |Hospital

|71 |Chiba |35.600000 |140.116667 |日本医科大学 千葉北総病院 |35.781433 |140.198612 |Hospital

|72 |Chiba |35.600000 |140.116667 |東京ベイ 浦安市川医療センター |35.671132 |139.893723 |Hospital

|73 |Chiba |35.600000 |140.116667 |東京歯科大学附属市川総合病院 |35.733207 |139.922603 |Hospital

|74 |Chiba |35.600000 |140.116667 |東邦鎌谷病院 |35.790093 |140.000544 |Hospital

|75 |Chiba |35.600000 |140.116667 |東京臨海病院 |35.652288 |139.854049 |Hospital

|76 |Chiba |35.600000 |140.116667 |森山記念病院 |35.672454 |139.861369 |Hospital

|77 |Chiba |35.600000 |140.116667 |成田赤十字病院 |35.764539 |140.303527 |Hospital

|78 |Chiba |35.600000 |140.116667 |国立国際医療研究センター国府台病院 |35.746092 |139.905422 |Hospital

|79 |Chiba |35.600000 |140.116667 |千葉西総合病院 |35.803523 |139.944670 |Hospital

|80 |Chiba |35.600000 |140.116667 |東京都立墨東病院 |35.694955 |139.818320 |Hospital

|81 |Chiba |35.600000 |140.116667 |Cancer Institute Hospital (がん研有明病院) |35.633946 |139.794744 |Hospital

|82 |Chiba |35.600000 |140.116667 |昭和大学江東豊洲病院 |35.650253 |139.796240 |Hospital

|83 |Chiba |35.600000 |140.116667 |東部地域病院 |35.766095 |139.844868 |Hospital

|84 |Chiba |35.600000 |140.116667 |新松戸中央総合病院 |35.828669 |139.921326 |Hospital

|85 |Chiba |35.600000 |140.116667 |東京都リハビリテーション病院 |35.735779 |139.816094 |Hospital

|86 |Chiba |35.600000 |140.116667 |National Cancer Center Hospital (国立がん研究センター中央病院) |35.665488 |139.768159 |Hospital

|87 |Chiba |35.600000 |140.116667 |三井記念病院 |35.700022 |139.778912 |Hospital

|88 |Chiba |35.600000 |140.116667 |三郷中央総合病院 |35.830342 |139.879322 |Hospital

|89 |Chiba |35.600000 |140.116667 |Tokatsu Hospital (東葛病院) |35.852892 |139.915652 |Hospital

|90 |Chiba |35.600000 |140.116667 |東京労災病院 |35.565437 |139.747178 |Hospital

|91 |Chiba |35.600000 |140.116667 |八潮中央総合病院 |35.813342 |139.851495 |Hospital

|92 |Chiba |35.600000 |140.116667 |東京医科歯科大学 歯学部附属病院 |35.700886 |139.764492 |Hospital

|93 |Chiba |35.600000 |140.116667 |東京慈恵会医科大学附属病院 外来棟 |35.663454 |139.751387 |Hospital

|94 |Chiba |35.600000 |140.116667 |東京医科歯科大学医学部附属病院 |35.701114 |139.764175 |Hospital

|95 |Chiba |35.600000 |140.116667 |品川シーズンテラス健診クリニック

|35.632266 |139.743083 |Hospital

|96 |Chiba |35.600000 |140.116667 |Juntendo University Hospital
(順天堂大学医学部附属 順天堂医院) |35.702272 |139.762504 |Hospital

|97 |Chiba |35.600000 |140.116667 |University of Tokyo Hospital
(東京大学医学部附属病院) |35.710694 |139.764522 |Hospital

|98 |Chiba |35.600000 |140.116667 |Toranomon Hospital (虎の門病院)
|35.668780 |139.746678 |Hospital

|99 |Chiba |35.600000 |140.116667 |IUHW Mita Hospital (国際医療福祉大学
三田病院) |35.653713 |139.742446 |Hospital

|100 |Hachioji |35.655833 |139.323889 |国立成育医療研究センター
|35.633549 |139.612043 |Medical Center

|101 |Hachioji |35.655833 |139.323889 |akiba:F 献血ルーム |35.697690
|139.772493 |Medical Center

|102 |Hachioji |35.655833 |139.323889 |Japan Red Cross Medical Center
(日本赤十字社医療センター) |35.654831 |139.717755 |Medical Center

|103 |Hachioji |35.655833 |139.323889 |鶯谷健診センター |35.725696
|139.775926 |Medical Center

|104 |Hachioji |35.655833 |139.323889 |St. Luke's Hospital
(聖路加国際病院) |35.667372 |139.777500 |Medical Center

|105 |Hachioji |35.655833 |139.323889 |埼玉医科大学国際医療センター
|35.921375 |139.322160 |Medical Center

|106 |Hachioji |35.655833 |139.323889 |関東ITソフトウェア健康保険組合
大久保健診センター |35.701846 |139.695944 |Medical Center

|107 |Hachioji |35.655833 |139.323889 |Tokyo Metropolitan Hiroo Hospital
(東京都立広尾病院) |35.646944 |139.722337 |Medical Center

|108 |Hachioji |35.655833 |139.323889 |JR東京総合病院 |35.685145
|139.700143 |Medical Center

|109 |Hachioji |35.655833 |139.323889 |多摩総合医療センター |35.692046
|139.461426 |Medical Center

|110 |Hachioji |35.655833 |139.323889 |Tokyo Women's Medical University
Yachiyo Medic... |35.730192 |140.096734 |Medical Center

|111 |Hachioji |35.655833 |139.323889 |日本医科大学付属病院 |35.720718
|139.759709 |Medical Center

|112 |Hachioji |35.655833 |139.323889 |Eisei Hospital (永生病院)
|35.639401 |139.305180 |Medical Center

|113 |Hachioji |35.655833 |139.323889 |杉並保健所 |35.702270 |139.619959
|Medical Center

|114 |Hachioji |35.655833 |139.323889 |多摩北部医療センター |35.760666
|139.493048 |Medical Center

|115 |Hachioji |35.655833 |139.323889 |国立療養所多磨全生園 |35.766269
|139.496520 |Medical Center

|116 |Hachioji |35.655833 |139.323889 |東京都立小児総合医療センター
|35.692145 |139.460685 |Hospital

|117 |Hachioji |35.655833 |139.323889 |保健センター駒場支所 |35.659373
|139.683839 |Medical Center

|118 |Hachioji |35.655833 |139.323889 |総合検診センター ヘルチェック
新宿西口センター |35.686735 |139.694544 |Medical Center

|119 |Hachioji |35.655833 |139.323889 |かわさきルフロン献血ルーム
|35.529890 |139.696873 |Medical Center

|120 |Hachioji |35.655833 |139.323889 |東邦大学医療センター 大森病院
|35.569266 |139.723843 |Medical Center

|121 |Hachioji |35.655833 |139.323889
|埼玉県総合リハビリテーションセンター |35.938461 |139.553583 |Medical
Center

|122 |Hachioji |35.655833 |139.323889 |ハイメディック・東大病院
|35.710572 |139.765116 |Medical Center

|123 |Hachioji |35.655833 |139.323889 |河北総合病院 本院 |35.706654
|139.638903 |Medical Center

|124 |Hachioji |35.655833 |139.323889 |中野総合病院 |35.702901
|139.666990 |Medical Center

|125 |Hachioji |35.655833 |139.323889 |東京リバーサイド病院 |35.737703
|139.807077 |Medical Center

|126 |Hachioji |35.655833 |139.323889 |順天堂東京江東高齢者医療センター
|35.665818 |139.833521 |Medical Center

|127 |Hachioji |35.655833 |139.323889 |The Jikei University Katsushika
Medical Center... |35.751822 |139.858653 |Medical Center

|128 |Hachioji |35.655833 |139.323889 |埼玉県立 循環器・呼吸器病センター
|36.111488 |139.304829 |Medical Center

|129 |Hachioji |35.655833 |139.323889 |松戸市立総合医療センター
|35.802918 |139.932432 |Medical Center

|130 |Hachioji |35.655833 |139.323889 |社会医療法人財団 石心会
さやま総合クリニック |35.853096 |139.401460 |Doctor's Office

|131 |Hachioji |35.655833 |139.323889 |JA茨城西南医療センター病院
|36.119115 |139.796032 |Medical Center

|132 |Hachioji |35.655833 |139.323889 |総合守谷第一病院 |35.967472
|139.966982 |Medical Center

|133 |Hachioji |35.655833 |139.323889 |千葉医療センター |35.623107
|140.122097 |Medical Center

|134 |Hachioji |35.655833 |139.323889 |Chiba University Hospital
(千葉大学医学部附属病院) |35.603818 |140.136001 |Medical Center

|135 |Hachioji |35.655833 |139.323889 |ひもんや外科内科クリニック
|35.620360 |139.681653 |Doctor's Office

|136 |Hachioji |35.655833 |139.323889 |市立甲府病院 |35.634674
|138.591395 |Medical Center

|137 |Hachioji |35.655833 |139.323889 |フェニックスメディカルクリニック
本館 |35.678246 |139.705671 |Doctor's Office

|138 |Hachioji |35.655833 |139.323889 |フィオーレ健診クリニック
|35.698028 |139.709052 |Doctor's Office

|139 |Hachioji |35.655833 |139.323889 |川崎幸クリニック |35.534934
|139.690485 |Doctor's Office

|140 |Hachioji |35.655833 |139.323889 |静岡県立 静岡がんセンター
|35.156635 |138.884565 |Medical Center

|141 |Hachioji |35.655833 |139.323889 |オーバルコート健診クリニック
|35.623107 |139.729029 |Doctor's Office

|142 |Hachioji |35.655833 |139.323889 |Tokyo Midtown Clinic
(東京ミッドタウンクリニック) |35.666244 |139.731219 |Doctor's Office

|143 |Hachioji |35.655833 |139.323889 |山梨県立中央病院 |35.671266
|138.550203 |Medical Center

|144 |Hachioji |35.655833 |139.323889 |帝京大学ちば総合医療センター
|35.466445 |140.062312 |Medical Center

|145 |Hachioji |35.655833 |139.323889 |愛育病院 |35.646179 |139.752582
|Doctor's Office

|146 |Hachioji |35.655833 |139.323889 |新橋トラストクリニック |35.666350
|139.756028 |Doctor's Office

|147 |Hachioji |35.655833 |139.323889 |春日クリニック |35.711892
|139.752365 |Doctor's Office

|148 |Hachioji |35.655833 |139.323889 |太田記念病院 |36.298784
|139.360112 |Medical Center

|149 |Hachioji |35.655833 |139.323889 |はしもと内科クリニック |35.810866
|139.720307 |Doctor's Office

|150 |Hachioji |35.655833 |139.323889 |きらく内科クリニック |35.697500
|139.797336 |Doctor's Office

|151 |Hachioji |35.655833 |139.323889 |とちぎメディカルセンターしもつが
|36.365774 |139.727186 |Medical Center

|152 |Hachioji |35.655833 |139.323889 |深川ギャザリアクリニック
|35.666736 |139.804728 |Doctor's Office

|153 |Hachioji |35.655833 |139.323889 |霞ヶ浦医療センター |36.072507
|140.192701 |Medical Center

|154 |Hachioji |35.655833 |139.323889 |自治医科大学附属病院 |36.398262
|139.860039 |Medical Center

|155 |Hachioji |35.655833 |139.323889 |東海大学医学部付属八王子病院
2階総合受付 |35.673332 |139.356735 |Hospital

|156 |Hachioji |35.655833 |139.323889 |東京医科大学 八王子医療センター
|35.631929 |139.289040 |Hospital

|157 |Hachioji |35.655833 |139.323889 |保健センター本郷支所 |35.709264
|139.763195 |Hospital

|158 |Hachioji |35.655833 |139.323889 |相模原協同病院 |35.595910
|139.340660 |Hospital

|159 |Hachioji |35.655833 |139.323889 |東京西徳洲会病院 |35.716830
|139.348951 |Hospital

|160 |Hachioji |35.655833 |139.323889 |公立福生病院 |35.747058
|139.326342 |Hospital

|161 |Hachioji |35.655833 |139.323889 |独立行政法人 地域医療機能推進機構
相模野病院 |35.573190 |139.388376 |Hospital

|162 |Hachioji |35.655833 |139.323889 |日本医科大学 多摩永山病院
|35.631276 |139.446584 |Hospital

|163 |Hachioji |35.655833 |139.323889 |日の出ケ丘病院 |35.742968
|139.246981 |Hospital

|164 |Hachioji |35.655833 |139.323889 |永寿総合病院 |35.709898
|139.779683 |Hospital

|165 |Hachioji |35.655833 |139.323889 |都立神経病院 |35.690311
|139.461065 |Hospital

|166 |Hachioji |35.655833 |139.323889 |社会福祉法人 浴光会 国分寺病院

|35.706338 |139.469424 |Hospital

|167 |Hachioji |35.655833 |139.323889 |北里大学病院 |35.538488
|139.395060 |Hospital

|168 |Hachioji |35.655833 |139.323889 |Inagi Municipal Hospital
(稲城市立病院) |35.646890 |139.485190 |Hospital

|169 |Hachioji |35.655833 |139.323889 |青梅市立総合病院 |35.782731
|139.281215 |Hospital

|170 |Hachioji |35.655833 |139.323889 |国立病院機構 相模原病院
|35.520561 |139.411711 |Hospital

|171 |Hachioji |35.655833 |139.323889 |榊原記念病院 |35.666144
|139.520069 |Hospital

|172 |Hachioji |35.655833 |139.323889 |東芝林間病院 |35.520316
|139.440810 |Hospital

|173 |Hachioji |35.655833 |139.323889 |防衛医科大学校病院 |35.801199
|139.466133 |Hospital

|174 |Hachioji |35.655833 |139.323889 |横浜総合病院 |35.570297
|139.527509 |Hospital

|175 |Hachioji |35.655833 |139.323889
|国立障害者リハビリテーションセンター病院 |35.805324 |139.464076
|Hospital

|176 |Hachioji |35.655833 |139.323889 |聖マリアンナ医科大学病院
|35.600725 |139.548200 |Hospital

|177 |Hachioji |35.655833 |139.323889 |東京慈恵会医科大学附属第三病院
|35.644487 |139.566381 |Hospital

|178 |Hachioji |35.655833 |139.323889 |第3病棟 |35.677401 |139.565451
|Hospital

|179 |Hachioji |35.655833 |139.323889 |杏林大学医学部付属病院 |35.677535
|139.567534 |Hospital

|180 |Hachioji |35.655833 |139.323889 |杏林大学病院 外来診療棟
|35.677765 |139.567853 |Hospital

|181 |Hachioji |35.655833 |139.323889 |昭和大学藤が丘病院 |35.544869
|139.529389 |Hospital

|182 |Hachioji |35.655833 |139.323889 |Yamato Municipal Hospital
(大和市立病院) |35.486926 |139.458589 |Hospital

|183 |Hachioji |35.655833 |139.323889 |横浜旭中央総合病院 |35.507192
|139.497983 |Hospital

|184 |Hachioji |35.655833 |139.323889 |川崎市立多摩病院 |35.620229
|139.572770 |Hospital

|185 |Hachioji |35.655833 |139.323889 |入間川病院 |35.855423 |139.416705
|Hospital

|186 |Hachioji |35.655833 |139.323889 |海老名総合病院 |35.447139
|139.385529 |Hospital

|187 |Hachioji |35.655833 |139.323889 |社会医療法人財団 石心会
埼玉石心会病院 |35.863210 |139.410512 |Hospital

|188 |Hachioji |35.655833 |139.323889 |昭和大学附属 烏山病院 |35.672087
|139.595792 |Hospital

|189 |Hachioji |35.655833 |139.323889 |久我山病院 |35.681769 |139.598420
|Hospital

|190 |Hachioji |35.655833 |139.323889 |昭和大学横浜市北部病院 |35.546916
|139.569876 |Hospital

|191 |Hachioji |35.655833 |139.323889
|聖マリアンナ医科大学横浜市西部病院 |35.476997 |139.501852 |Hospital

|192 |Hachioji |35.655833 |139.323889 |東名厚木病院 |35.425437
|139.354124 |Hospital

|193 |Hachioji |35.655833 |139.323889 |荻窪病院 |35.715368 |139.607727
|Hospital

|194 |Hachioji |35.655833 |139.323889 |東京都立 松沢病院 |35.667722
|139.618506 |Hospital

|195 |Hachioji |35.655833 |139.323889 |有隣病院 |35.650871 |139.619491
|Hospital

|196 |Hachioji |35.655833 |139.323889 |関東中央病院 |35.637399
|139.626173 |Hospital

|197 |Hachioji |35.655833 |139.323889 |玉川病院 |35.620823 |139.624295
|Hospital

|198 |Hachioji |35.655833 |139.323889 |東海大学医学部付属病院 |35.406749
|139.314791 |Hospital

|199 |Hachioji |35.655833 |139.323889 |伊勢原協同病院 |35.403078
|139.316355 |Hospital

|200 |Kawagoe |35.908611 |139.485278 |akiba:F 献血ルーム |35.697690
|139.772493 |Medical Center

|201 |Kawagoe |35.908611 |139.485278 |国立成育医療研究センター
|35.633549 |139.612043 |Medical Center

|202 |Kawagoe |35.908611 |139.485278 |Japan Red Cross Medical Center
(日本赤十字社医療センター) |35.654831 |139.717755 |Medical Center

|203 |Kawagoe |35.908611 |139.485278 |鶯谷健診センター |35.725696
|139.775926 |Medical Center

|204 |Kawagoe |35.908611 |139.485278 |St. Luke's Hospital
(聖路加国際病院) |35.667372 |139.777500 |Medical Center

|205 |Kawagoe |35.908611 |139.485278 |埼玉医科大学国際医療センター
|35.921375 |139.322160 |Medical Center

|206 |Kawagoe |35.908611 |139.485278 |関東ITソフトウェア健康保険組合
大久保健診センター |35.701846 |139.695944 |Medical Center

|207 |Kawagoe |35.908611 |139.485278 |Tokyo Metropolitan Hiroo Hospital
(東京都立広尾病院) |35.646944 |139.722337 |Medical Center

|208 |Kawagoe |35.908611 |139.485278 |JR東京総合病院 |35.685145
|139.700143 |Medical Center

|209 |Kawagoe |35.908611 |139.485278 |Tokyo Women's Medical University
Yachiyo Medic... |35.730192 |140.096734 |Medical Center

|210 |Kawagoe |35.908611 |139.485278 |多摩総合医療センター |35.692046
|139.461426 |Medical Center

|211 |Kawagoe |35.908611 |139.485278 |日本医科大学付属病院 |35.720718
|139.759709 |Medical Center

|212 |Kawagoe |35.908611 |139.485278
|埼玉県総合リハビリテーションセンター |35.938461 |139.553583 |Medical
Center

|213 |Kawagoe |35.908611 |139.485278 |国立療養所多磨全生園 |35.766269
|139.496520 |Medical Center

|214 |Kawagoe |35.908611 |139.485278 |多摩北部医療センター |35.760666
|139.493048 |Medical Center

|215 |Kawagoe |35.908611 |139.485278 |杉並保健所 |35.702270 |139.619959
|Medical Center

|216 |Kawagoe |35.908611 |139.485278 |埼玉県立 循環器・呼吸器病センター
|36.111488 |139.304829 |Medical Center

|217 |Kawagoe |35.908611 |139.485278 |保健センター駒場支所 |35.659373
|139.683839 |Medical Center

|218 |Kawagoe |35.908611 |139.485278 |ハイメディック・東大病院
|35.710572 |139.765116 |Medical Center

|219 |Kawagoe |35.908611 |139.485278 |東京リバーサイド病院 |35.737703
|139.807077 |Medical Center

|220 |Kawagoe |35.908611 |139.485278 |東京都立小児総合医療センター
|35.692145 |139.460685 |Hospital

|221 |Kawagoe |35.908611 |139.485278 |JA茨城西南医療センター病院
|36.119115 |139.796032 |Medical Center

|222 |Kawagoe |35.908611 |139.485278 |The Jikei University Katsushika
Medical Center... |35.751822 |139.858653 |Medical Center

|223 |Kawagoe |35.908611 |139.485278 |中野総合病院 |35.702901
|139.666990 |Medical Center

|224 |Kawagoe |35.908611 |139.485278 |河北総合病院 本院 |35.706654
|139.638903 |Medical Center

|225 |Kawagoe |35.908611 |139.485278 |順天堂東京江東高齢者医療センター
|35.665818 |139.833521 |Medical Center

|226 |Kawagoe |35.908611 |139.485278 |松戸市立総合医療センター
|35.802918 |139.932432 |Medical Center

|227 |Kawagoe |35.908611 |139.485278 |東邦大学医療センター 大森病院
|35.569266 |139.723843 |Medical Center

|228 |Kawagoe |35.908611 |139.485278 |総合守谷第一病院 |35.967472
|139.966982 |Medical Center

|229 |Kawagoe |35.908611 |139.485278 |Eisei Hospital (永生病院)
|35.639401 |139.305180 |Medical Center

|230 |Kawagoe |35.908611 |139.485278 |かわさきルフロン献血ルーム
|35.529890 |139.696873 |Medical Center

|231 |Kawagoe |35.908611 |139.485278 |社会医療法人財団 石心会
さやま総合クリニック |35.853096 |139.401460 |Doctor's Office

|232 |Kawagoe |35.908611 |139.485278 |とちぎメディカルセンターしもつが
|36.365774 |139.727186 |Medical Center

|233 |Kawagoe |35.908611 |139.485278 |太田記念病院 |36.298784
|139.360112 |Medical Center

|234 |Kawagoe |35.908611 |139.485278 |自治医科大学附属病院 |36.398262
|139.860039 |Medical Center

|235 |Kawagoe |35.908611 |139.485278 |千葉医療センター |35.623107
|140.122097 |Medical Center

|236 |Kawagoe |35.908611 |139.485278 |霞ヶ浦医療センター |36.072507
|140.192701 |Medical Center

|237 |Kawagoe |35.908611 |139.485278 |はしもと内科クリニック |35.810866 |139.720307 |Doctor's Office

|238 |Kawagoe |35.908611 |139.485278 |Chiba University Hospital
(千葉大学医学部附属病院) |35.603818 |140.136001 |Medical Center

|239 |Kawagoe |35.908611 |139.485278 |フィオーレ健診クリニック
|35.698028 |139.709052 |Doctor's Office

|240 |Kawagoe |35.908611 |139.485278 |フェニックスメディカルクリニック
本館 |35.678246 |139.705671 |Doctor's Office

|241 |Kawagoe |35.908611 |139.485278 |春日クリニック |35.711892
|139.752365 |Doctor's Office

|242 |Kawagoe |35.908611 |139.485278 |上都賀総合病院 |36.560955
|139.750486 |Medical Center

|243 |Kawagoe |35.908611 |139.485278 |Tokyo Midtown Clinic
(東京ミッドタウンクリニック) |35.666244 |139.731219 |Doctor's Office

|244 |Kawagoe |35.908611 |139.485278 |新橋トラストクリニック |35.666350
|139.756028 |Doctor's Office

|245 |Kawagoe |35.908611 |139.485278 |ひもんや外科内科クリニック
|35.620360 |139.681653 |Doctor's Office

|246 |Kawagoe |35.908611 |139.485278 |きらく内科クリニック |35.697500
|139.797336 |Doctor's Office

|247 |Kawagoe |35.908611 |139.485278 |愛育病院 |35.646179 |139.752582
|Doctor's Office

|248 |Kawagoe |35.908611 |139.485278 |オーバルコート健診クリニック
|35.623107 |139.729029 |Doctor's Office

|249 |Kawagoe |35.908611 |139.485278 |帝京大学ちば総合医療センター
|35.466445 |140.062312 |Medical Center

|250 |Kawagoe |35.908611 |139.485278 |深川ギャザリアクリニック
|35.666736 |139.804728 |Doctor's Office

|251 |Kawagoe |35.908611 |139.485278 |川崎幸クリニック |35.534934
|139.690485 |Doctor's Office

|252 |Kawagoe |35.908611 |139.485278 |保健センター本郷支所 |35.709264
|139.763195 |Hospital

|253 |Kawagoe |35.908611 |139.485278 |水戸医療センター |36.324884
|140.409507 |Medical Center

|254 |Kawagoe |35.908611 |139.485278 |市立甲府病院 |35.634674
|138.591395 |Medical Center

|255 |Kawagoe |35.908611 |139.485278 |永寿総合病院 |35.709898
|139.779683 |Hospital

|256 |Kawagoe |35.908611 |139.485278 |山梨県立中央病院 |35.671266
|138.550203 |Medical Center

|257 |Kawagoe |35.908611 |139.485278 |上福岡総合病院 |35.876613
|139.539955 |Hospital

|258 |Kawagoe |35.908611 |139.485278 |茨城県立中央病院 |36.350384
|140.320532 |Medical Center

|259 |Kawagoe |35.908611 |139.485278 |社会医療法人財団 石心会
埼玉石心会病院 |35.863210 |139.410512 |Hospital

|260 |Kawagoe |35.908611 |139.485278 |イムス富士見総合病院 |35.855430
|139.553450 |Hospital

|261 |Kawagoe |35.908611 |139.485278 |入間川病院 |35.855423 |139.416705
|Hospital

|262 |Kawagoe |35.908611 |139.485278 |上尾中央総合病院 |35.974080
|139.585723 |Hospital

|263 |Kawagoe |35.908611 |139.485278
|国立障害者リハビリテーションセンター病院 |35.805324 |139.464076
|Hospital

|264 |Kawagoe |35.908611 |139.485278 |防衛医科大学校病院 |35.801199
|139.466133 |Hospital

|265 |Kawagoe |35.908611 |139.485278 |彩の国東大宮メディカルセンター
|35.927280 |139.638274 |Hospital

|266 |Kawagoe |35.908611 |139.485278 |医療法人社団 松弘会 三愛病院
|35.848625 |139.625805 |Hospital

|267 |Kawagoe |35.908611 |139.485278 |TMGあさか医療センター |35.811325
|139.593473 |Hospital

|268 |Kawagoe |35.908611 |139.485278 |埼玉医科大学病院 |35.939025
|139.305785 |Hospital

|269 |Kawagoe |35.908611 |139.485278 |静岡県立 静岡がんセンター
|35.156635 |138.884565 |Medical Center

|270 |Kawagoe |35.908611 |139.485278 |さいたま市立病院 |35.890648
|139.678831 |Hospital

|271 |Kawagoe |35.908611 |139.485278 |Saitama National Hospital
(国立病院機構 埼玉病院) |35.776616 |139.618592 |Hospital

|272 |Kawagoe |35.908611 |139.485278 |戸田中央総合病院 |35.810738

|139.680557 |Hospital

|273 |Kawagoe |35.908611 |139.485278 |練馬光が丘病院 |35.762143
|139.630058 |Hospital

|274 |Kawagoe |35.908611 |139.485278 |高島平中央総合病院 |35.786909
|139.667895 |Hospital

|275 |Kawagoe |35.908611 |139.485278 |Saitama Kyodo Hospital
(埼玉協同病院) |35.859916 |139.716327 |Hospital

|276 |Kawagoe |35.908611 |139.485278 |済生会川口総合病院 |35.809577
|139.702471 |Hospital

|277 |Kawagoe |35.908611 |139.485278 |社会福祉法人 浴光会 国分寺病院
|35.706338 |139.469424 |Hospital

|278 |Kawagoe |35.908611 |139.485278 |公立福生病院 |35.747058
|139.326342 |Hospital

|279 |Kawagoe |35.908611 |139.485278 |青梅市立総合病院 |35.782731
|139.281215 |Hospital

|280 |Kawagoe |35.908611 |139.485278 |荻窪病院 |35.715368 |139.607727
|Hospital

|281 |Kawagoe |35.908611 |139.485278 |都立神経病院 |35.690311
|139.461065 |Hospital

|282 |Kawagoe |35.908611 |139.485278 |東京西徳洲会病院 |35.716830
|139.348951 |Hospital

|283 |Kawagoe |35.908611 |139.485278 |日本大学医学部附属板橋病院
|35.749082 |139.691841 |Hospital

|284 |Kawagoe |35.908611 |139.485278 |豊島病院 |35.752404 |139.701276
|Hospital

|285 |Kawagoe |35.908611 |139.485278 |春日部中央総合病院 |35.964700
|139.771251 |Hospital

|286 |Kawagoe |35.908611 |139.485278 |Teikyo University Hospital
(帝京大学医学部附属病院) |35.758916 |139.713983 |Hospital

|287 |Kawagoe |35.908611 |139.485278 |第3病棟 |35.677401 |139.565451
|Hospital

|288 |Kawagoe |35.908611 |139.485278 |杏林大学病院 外来診療棟 |35.677765
|139.567853 |Hospital

|289 |Kawagoe |35.908611 |139.485278 |杏林大学医学部付属病院 |35.677535
|139.567534 |Hospital

|290 |Kawagoe |35.908611 |139.485278 |榊原記念病院 |35.666144
|139.520069 |Hospital

|291 |Kawagoe |35.908611 |139.485278 |東京警察病院 |35.709094
|139.659405 |Hospital

|292 |Kawagoe |35.908611 |139.485278 |久我山病院 |35.681769 |139.598420
|Hospital

|293 |Kawagoe |35.908611 |139.485278 |獨協医科大学埼玉医療センター
|35.878307 |139.789673 |Hospital

|294 |Kawagoe |35.908611 |139.485278 |昭和大学附属 烏山病院 |35.672087
|139.595792 |Hospital

|295 |Kawagoe |35.908611 |139.485278 |Seibo Hospital (聖母病院)
|35.720273 |139.694606 |Hospital

|296 |Kawagoe |35.908611 |139.485278 |日の出ケ丘病院 |35.742968
|139.246981 |Hospital

|297 |Kawagoe |35.908611 |139.485278 |埼玉慈恵病院 |36.148945
|139.377508 |Hospital

|298 |Kawagoe |35.908611 |139.485278 |東海大学医学部付属八王子病院
2階総合受付 |35.673332 |139.356735 |Hospital

|299 |Kawagoe |35.908611 |139.485278 |立正佼成会附属 佼成病院 |35.689777
|139.656170 |Hospital

|300 |Saitama |35.900000 |139.650000 |akiba:F 献血ルーム |35.697690
|139.772493 |Medical Center

|301 |Saitama |35.900000 |139.650000 |国立成育医療研究センター
|35.633549 |139.612043 |Medical Center

|302 |Saitama |35.900000 |139.650000 |鴬谷健診センター |35.725696
|139.775926 |Medical Center

|303 |Saitama |35.900000 |139.650000 |Japan Red Cross Medical Center
(日本赤十字社医療センター) |35.654831 |139.717755 |Medical Center

|304 |Saitama |35.900000 |139.650000 |St. Luke's Hospital
(聖路加国際病院) |35.667372 |139.777500 |Medical Center

|305 |Saitama |35.900000 |139.650000 |関東ITソフトウェア健康保険組合
大久保健診センター |35.701846 |139.695944 |Medical Center

|306 |Saitama |35.900000 |139.650000 |埼玉医科大学国際医療センター
|35.921375 |139.322160 |Medical Center

|307 |Saitama |35.900000 |139.650000 |Tokyo Metropolitan Hiroo Hospital
(東京都立広尾病院) |35.646944 |139.722337 |Medical Center

|308 |Saitama |35.900000 |139.650000 |JR東京総合病院 |35.685145 |139.700143 |Medical Center

|309 |Saitama |35.900000 |139.650000 |Tokyo Women's Medical University Yachiyo Medic... |35.730192 |140.096734 |Medical Center

|310 |Saitama |35.900000 |139.650000 |日本医科大学付属病院 |35.720718 |139.759709 |Medical Center

|311 |Saitama |35.900000 |139.650000 |多摩総合医療センター |35.692046 |139.461426 |Medical Center

|312 |Saitama |35.900000 |139.650000 |埼玉県総合リハビリテーションセンター |35.938461 |139.553583 |Medical Center

|313 |Saitama |35.900000 |139.650000 |杉並保健所 |35.702270 |139.619959 |Medical Center

|314 |Saitama |35.900000 |139.650000 |国立療養所多磨全生園 |35.766269 |139.496520 |Medical Center

|315 |Saitama |35.900000 |139.650000 |多摩北部医療センター |35.760666 |139.493048 |Medical Center

|316 |Saitama |35.900000 |139.650000 |東京リバーサイド病院 |35.737703 |139.807077 |Medical Center

|317 |Saitama |35.900000 |139.650000 |ハイメディック・東大病院 |35.710572 |139.765116 |Medical Center

|318 |Saitama |35.900000 |139.650000 |The Jikei University Katsushika Medical Center... |35.751822 |139.858653 |Medical Center

|319 |Saitama |35.900000 |139.650000 |保健センター駒場支所 |35.659373 |139.683839 |Medical Center

|320 |Saitama |35.900000 |139.650000 |松戸市立総合医療センター |35.802918 |139.932432 |Medical Center

|321 |Saitama |35.900000 |139.650000 |JA茨城西南医療センター病院 |36.119115 |139.796032 |Medical Center

|322 |Saitama |35.900000 |139.650000 |総合守谷第一病院 |35.967472 |139.966982 |Medical Center

|323 |Saitama |35.900000 |139.650000 |順天堂東京江東高齢者医療センター |35.665818 |139.833521 |Medical Center

|324 |Saitama |35.900000 |139.650000 |中野総合病院 |35.702901 |139.666990 |Medical Center

|325 |Saitama |35.900000 |139.650000 |河北総合病院 本院 |35.706654 |139.638903 |Medical Center

|326 |Saitama |35.900000 |139.650000 |東邦大学医療センター 大森病院 |35.569266 |139.723843 |Medical Center

|327 |Saitama |35.900000 |139.650000 |埼玉県立 循環器・呼吸器病センター |36.111488 |139.304829 |Medical Center

|328 |Saitama |35.900000 |139.650000 |東京都立小児総合医療センター |35.692145 |139.460685 |Hospital

|329 |Saitama |35.900000 |139.650000 |かわさきルフロン献血ルーム |35.529890 |139.696873 |Medical Center

|330 |Saitama |35.900000 |139.650000 |とちぎメディカルセンターしもつが |36.365774 |139.727186 |Medical Center

|331 |Saitama |35.900000 |139.650000 |霞ヶ浦医療センター |36.072507 |140.192701 |Medical Center

|332 |Saitama |35.900000 |139.650000 |千葉医療センター |35.623107 |140.122097 |Medical Center

|333 |Saitama |35.900000 |139.650000 |Eisei Hospital (永生病院) |35.639401 |139.305180 |Medical Center

|334 |Saitama |35.900000 |139.650000 |はしもと内科クリニック |35.810866 |139.720307 |Doctor's Office

|335 |Saitama |35.900000 |139.650000 |Chiba University Hospital (千葉大学医学部附属病院) |35.603818 |140.136001 |Medical Center

|336 |Saitama |35.900000 |139.650000 |自治医科大学附属病院 |36.398262 |139.860039 |Medical Center

|337 |Saitama |35.900000 |139.650000 |太田記念病院 |36.298784 |139.360112 |Medical Center

|338 |Saitama |35.900000 |139.650000 |春日クリニック |35.711892 |139.752365 |Doctor's Office

|339 |Saitama |35.900000 |139.650000 |社会医療法人財団 石心会 さやま総合クリニック |35.853096 |139.401460 |Doctor's Office

|340 |Saitama |35.900000 |139.650000 |フィオーレ健診クリニック |35.698028 |139.709052 |Doctor's Office

|341 |Saitama |35.900000 |139.650000 |フェニックスメディカルクリニック 本館 |35.678246 |139.705671 |Doctor's Office

|342 |Saitama |35.900000 |139.650000 |きらく内科クリニック |35.697500 |139.797336 |Doctor's Office

|343 |Saitama |35.900000 |139.650000 |Tokyo Midtown Clinic

(東京ミッドタウンクリニック) |35.666244 |139.731219 |Doctor's Office

|344 |Saitama |35.900000 |139.650000 |新橋トラストクリニック |35.666350 |139.756028 |Doctor's Office

|345 |Saitama |35.900000 |139.650000 |帝京大学ちば総合医療センター |35.466445 |140.062312 |Medical Center

|346 |Saitama |35.900000 |139.650000 |深川ギャザリアクリニック |35.666736 |139.804728 |Doctor's Office

|347 |Saitama |35.900000 |139.650000 |愛育病院 |35.646179 |139.752582 |Doctor's Office

|348 |Saitama |35.900000 |139.650000 |上都賀総合病院 |36.560955 |139.750486 |Medical Center

|349 |Saitama |35.900000 |139.650000 |ひもんや外科内科クリニック |35.620360 |139.681653 |Doctor's Office

|350 |Saitama |35.900000 |139.650000 |オーバルコート健診クリニック |35.623107 |139.729029 |Doctor's Office

|351 |Saitama |35.900000 |139.650000 |保健センター本郷支所 |35.709264 |139.763195 |Hospital

|352 |Saitama |35.900000 |139.650000 |水戸医療センター |36.324884 |140.409507 |Medical Center

|353 |Saitama |35.900000 |139.650000 |川崎幸クリニック |35.534934 |139.690485 |Doctor's Office

|354 |Saitama |35.900000 |139.650000 |永寿総合病院 |35.709898 |139.779683 |Hospital

|355 |Saitama |35.900000 |139.650000 |茨城県立中央病院 |36.350384 |140.320532 |Medical Center

|356 |Saitama |35.900000 |139.650000 |さいたま市立病院 |35.890648 |139.678831 |Hospital

|357 |Saitama |35.900000 |139.650000 |彩の国東大宮メディカルセンター |35.927280 |139.638274 |Hospital

|358 |Saitama |35.900000 |139.650000 |医療法人社団 松弘会 三愛病院 |35.848625 |139.625805 |Hospital

|359 |Saitama |35.900000 |139.650000 |Saitama Kyodo Hospital (埼玉協同病院) |35.859916 |139.716327 |Hospital

|360 |Saitama |35.900000 |139.650000 |イムス富士見総合病院 |35.855430 |139.553450 |Hospital

|361 |Saitama |35.900000 |139.650000 |上尾中央総合病院 |35.974080 |139.585723 |Hospital

|362 |Saitama |35.900000 |139.650000 |上福岡総合病院 |35.876613 |139.539955 |Hospital

|363 |Saitama |35.900000 |139.650000 |戸田中央総合病院 |35.810738 |139.680557 |Hospital

|364 |Saitama |35.900000 |139.650000 |TMGあさか医療センター |35.811325 |139.593473 |Hospital

|365 |Saitama |35.900000 |139.650000 |済生会川口総合病院 |35.809577 |139.702471 |Hospital

|366 |Saitama |35.900000 |139.650000 |高島平中央総合病院 |35.786909 |139.667895 |Hospital

|367 |Saitama |35.900000 |139.650000 |獨協医科大学埼玉医療センター |35.878307 |139.789673 |Hospital

|368 |Saitama |35.900000 |139.650000 |春日部中央総合病院 |35.964700 |139.771251 |Hospital

|369 |Saitama |35.900000 |139.650000 |Saitama National Hospital (国立病院機構 埼玉病院) |35.776616 |139.618592 |Hospital

|370 |Saitama |35.900000 |139.650000 |越谷市立病院 |35.897977 |139.805893 |Hospital

|371 |Saitama |35.900000 |139.650000 |Soka Municipal Hospital (草加市立病院) |35.835940 |139.796032 |Hospital

|372 |Saitama |35.900000 |139.650000 |練馬光が丘病院 |35.762143 |139.630058 |Hospital

|373 |Saitama |35.900000 |139.650000 |Teikyo University Hospital (帝京大学医学部附属病院) |35.758916 |139.713983 |Hospital

|374 |Saitama |35.900000 |139.650000 |メディカルトピア草加病院 |35.811652 |139.800212 |Hospital

|375 |Saitama |35.900000 |139.650000 |豊島病院 |35.752404 |139.701276 |Hospital

|376 |Saitama |35.900000 |139.650000 |日本大学医学部附属板橋病院 |35.749082 |139.691841 |Hospital

|377 |Saitama |35.900000 |139.650000 |市立甲府病院 |35.634674 |138.591395 |Medical Center

|378 |Saitama |35.900000 |139.650000 |国立障害者リハビリテーションセンター病院 |35.805324 |139.464076 |Hospital

|379 |Saitama |35.900000 |139.650000 |Tokyo Women's Medical University Medical Cente... |35.748391 |139.765294 |Hospital

|380 |Saitama |35.900000 |139.650000 |防衛医科大学校病院 |35.801199 |139.466133 |Hospital

|381 |Saitama |35.900000 |139.650000 |Seibo Hospital (聖母病院) |35.720273 |139.694606 |Hospital

|382 |Saitama |35.900000 |139.650000 |八潮中央総合病院 |35.813342 |139.851495 |Hospital

|383 |Saitama |35.900000 |139.650000 |東京都立 大塚病院 |35.725157 |139.731279 |Hospital

|384 |Saitama |35.900000 |139.650000 |荻窪病院 |35.715368 |139.607727 |Hospital

|385 |Saitama |35.900000 |139.650000 |都立駒込病院 |35.729939 |139.755663 |Hospital

|386 |Saitama |35.900000 |139.650000 |東京警察病院 |35.709094 |139.659405 |Hospital

|387 |Saitama |35.900000 |139.650000 |入間川病院 |35.855423 |139.416705 |Hospital

|388 |Saitama |35.900000 |139.650000 |社会医療法人財団 石心会 埼玉石心会病院 |35.863210 |139.410512 |Hospital

|389 |Saitama |35.900000 |139.650000 |三郷中央総合病院 |35.830342 |139.879322 |Hospital

|390 |Saitama |35.900000 |139.650000 |東京山手メディカルセンター |35.704301 |139.699342 |Hospital

|391 |Saitama |35.900000 |139.650000 |Center Hospital of the National Center for Glo... |35.701708 |139.716260 |Hospital

|392 |Saitama |35.900000 |139.650000 |東部地域病院 |35.766095 |139.844868 |Hospital

|393 |Saitama |35.900000 |139.650000 |Tokyo Medical University Hospital (東京医科大学病院) |35.693644 |139.692003 |Hospital

|394 |Saitama |35.900000 |139.650000 |東京女子医科大学病院 総合外来センター |35.698489 |139.720175 |Hospital

|395 |Saitama |35.900000 |139.650000 |Tokyo Women's Medical University Hospital (東京女... |35.698356 |139.719684 |Hospital

|396 |Saitama |35.900000 |139.650000 |立正佼成会附属 佼成病院 |35.689777 |139.656170 |Hospital

|397 |Saitama |35.900000 |139.650000 |JCHO東京新宿メディカルセンター |35.703452 |139.742318 |Hospital

|398 |Saitama |35.900000 |139.650000 |University of Tokyo Hospital (東京大学医学部附属病院) |35.710694 |139.764522 |Hospital

|399 |Saitama |35.900000 |139.650000 |東京都リハビリテーション病院 |35.735779 |139.816094 |Hospital

|400 |Shinkawasaki |35.550193 |139.670327 |akiba:F 献血ルーム |35.697690 |139.772493 |Medical Center

|401 |Shinkawasaki |35.550193 |139.670327 |国立成育医療研究センター |35.633549 |139.612043 |Medical Center

|402 |Shinkawasaki |35.550193 |139.670327 |Japan Red Cross Medical Center (日本赤十字社医療センター) |35.654831 |139.717755 |Medical Center

|403 |Shinkawasaki |35.550193 |139.670327 |St. Luke's Hospital (聖路加国際病院) |35.667372 |139.777500 |Medical Center

|404 |Shinkawasaki |35.550193 |139.670327 |鶯谷健診センター |35.725696 |139.775926 |Medical Center

|405 |Shinkawasaki |35.550193 |139.670327 |関東ITソフトウェア健康保険組合 大久保健診センター |35.701846 |139.695944 |Medical Center

|406 |Shinkawasaki |35.550193 |139.670327 |Tokyo Metropolitan Hiroo Hospital (東京都立広尾病院) |35.646944 |139.722337 |Medical Center

|407 |Shinkawasaki |35.550193 |139.670327 |埼玉医科大学国際医療センター |35.921375 |139.322160 |Medical Center

|408 |Shinkawasaki |35.550193 |139.670327 |JR東京総合病院 |35.685145 |139.700143 |Medical Center

|409 |Shinkawasaki |35.550193 |139.670327 |Tokyo Women's Medical University Yachiyo Medic... |35.730192 |140.096734 |Medical Center

|410 |Shinkawasaki |35.550193 |139.670327 |日本医科大学付属病院 |35.720718 |139.759709 |Medical Center

|411 |Shinkawasaki |35.550193 |139.670327 |多摩総合医療センター |35.692046 |139.461426 |Medical Center

|412 |Shinkawasaki |35.550193 |139.670327 |かわさきルフロン献血ルーム |35.529890 |139.696873 |Medical Center

|413 |Shinkawasaki |35.550193 |139.670327 |東邦大学医療センター 大森病院 |35.569266 |139.723843 |Medical Center

|414 |Shinkawasaki |35.550193 |139.670327 |杉並保健所 |35.702270 |139.619959 |Medical Center

|415 |Shinkawasaki |35.550193 |139.670327 |保健センター駒場支所 |35.659373 |139.683839 |Medical Center

|416 |Shinkawasaki |35.550193 |139.670327 |総合検診センター ヘルチェック 新宿西口センター |35.686735 |139.694544 |Medical Center

|417 |Shinkawasaki |35.550193 |139.670327 |順天堂東京江東高齢者医療センター |35.665818 |139.833521 |Medical Center

|418 |Shinkawasaki |35.550193 |139.670327 |ハイメディック・東大病院 |35.710572 |139.765116 |Medical Center

|419 |Shinkawasaki |35.550193 |139.670327 |東京リバーサイド病院 |35.737703 |139.807077 |Medical Center

|420 |Shinkawasaki |35.550193 |139.670327 |中野総合病院 |35.702901 |139.666990 |Medical Center

|421 |Shinkawasaki |35.550193 |139.670327 |The Jikei University Katsushika Medical Center... |35.751822 |139.858653 |Medical Center

|422 |Shinkawasaki |35.550193 |139.670327 |多摩北部医療センター |35.760666 |139.493048 |Medical Center

|423 |Shinkawasaki |35.550193 |139.670327 |国立療養所多磨全生園 |35.766269 |139.496520 |Medical Center

|424 |Shinkawasaki |35.550193 |139.670327 |河北総合病院 本院 |35.706654 |139.638903 |Medical Center

|425 |Shinkawasaki |35.550193 |139.670327 |東京都立小児総合医療センター |35.692145 |139.460685 |Hospital

|426 |Shinkawasaki |35.550193 |139.670327 |松戸市立総合医療センター |35.802918 |139.932432 |Medical Center

|427 |Shinkawasaki |35.550193 |139.670327 |千葉医療センター |35.623107 |140.122097 |Medical Center

|428 |Shinkawasaki |35.550193 |139.670327 |Chiba University Hospital (千葉大学医学部附属病院) |35.603818 |140.136001 |Medical Center

|429 |Shinkawasaki |35.550193 |139.670327 |埼玉県総合リハビリテーションセンター |35.938461 |139.553583 |Medical Center

|430 |Shinkawasaki |35.550193 |139.670327 |Eisei Hospital (永生病院) |35.639401 |139.305180 |Medical Center

|431 |Shinkawasaki |35.550193 |139.670327 |川崎幸クリニック |35.534934 |139.690485 |Doctor's Office

|432 |Shinkawasaki |35.550193 |139.670327 |帝京大学ちば総合医療センター |35.466445 |140.062312 |Medical Center

|433 |Shinkawasaki |35.550193 |139.670327 |ひもんや外科内科クリニック |35.620360 |139.681653 |Doctor's Office

|434 |Shinkawasaki |35.550193 |139.670327 |オーバルコート健診クリニック |35.623107 |139.729029 |Doctor's Office

|435 |Shinkawasaki |35.550193 |139.670327 |総合守谷第一病院 |35.967472 |139.966982 |Medical Center

|436 |Shinkawasaki |35.550193 |139.670327 |愛育病院 |35.646179 |139.752582 |Doctor's Office

|437 |Shinkawasaki |35.550193 |139.670327 |Tokyo Midtown Clinic (東京ミッドタウンクリニック) |35.666244 |139.731219 |Doctor's Office

|438 |Shinkawasaki |35.550193 |139.670327 |フェニックスメディカルクリニック 本館 |35.678246 |139.705671 |Doctor's Office

|439 |Shinkawasaki |35.550193 |139.670327 |新橋トラストクリニック |35.666350 |139.756028 |Doctor's Office

|440 |Shinkawasaki |35.550193 |139.670327 |フィオーレ健診クリニック |35.698028 |139.709052 |Doctor's Office

|441 |Shinkawasaki |35.550193 |139.670327 |深川ギャザリアクリニック |35.666736 |139.804728 |Doctor's Office

|442 |Shinkawasaki |35.550193 |139.670327 |春日クリニック |35.711892 |139.752365 |Doctor's Office

|443 |Shinkawasaki |35.550193 |139.670327 |きらく内科クリニック |35.697500 |139.797336 |Doctor's Office

|444 |Shinkawasaki |35.550193 |139.670327 |JA茨城西南医療センター病院 |36.119115 |139.796032 |Medical Center

|445 |Shinkawasaki |35.550193 |139.670327 |埼玉県立 循環器・呼吸器病センター |36.111488 |139.304829 |Medical Center

|446 |Shinkawasaki |35.550193 |139.670327 |はしもと内科クリニック |35.810866 |139.720307 |Doctor's Office

|447 |Shinkawasaki |35.550193 |139.670327 |霞ヶ浦医療センター |36.072507 |140.192701 |Medical Center

|448 |Shinkawasaki |35.550193 |139.670327 |保健センター本郷支所 |35.709264 |139.763195 |Hospital

|449 |Shinkawasaki |35.550193 |139.670327 |社会医療法人財団 石心会
さやま総合クリニック |35.853096 |139.401460 |Doctor's Office

|450 |Shinkawasaki |35.550193 |139.670327 |永寿総合病院 |35.709898
|139.779683 |Hospital

|451 |Shinkawasaki |35.550193 |139.670327
|とちぎメディカルセンターしもつが |36.365774 |139.727186 |Medical Center

|452 |Shinkawasaki |35.550193 |139.670327 |静岡県立 静岡がんセンター
|35.156635 |138.884565 |Medical Center

|453 |Shinkawasaki |35.550193 |139.670327 |自治医科大学附属病院
|36.398262 |139.860039 |Medical Center

|454 |Shinkawasaki |35.550193 |139.670327 |川崎幸病院 |35.528437
|139.692144 |Hospital

|455 |Shinkawasaki |35.550193 |139.670327 |太田総合病院 |35.528102
|139.696151 |Hospital

|456 |Shinkawasaki |35.550193 |139.670327 |日本医科大学 武蔵小杉病院
|35.579417 |139.658643 |Hospital

|457 |Shinkawasaki |35.550193 |139.670327 |川崎市立川崎病院 |35.526453
|139.706038 |Hospital

|458 |Shinkawasaki |35.550193 |139.670327 |富士通クリニック |35.583235
|139.641626 |Hospital

|459 |Shinkawasaki |35.550193 |139.670327 |東京蒲田医療センター
|35.554650 |139.723450 |Hospital

|460 |Shinkawasaki |35.550193 |139.670327 |日本鋼管病院 |35.519479
|139.712176 |Hospital

|461 |Shinkawasaki |35.550193 |139.670327 |荏原病院 |35.593503
|139.692498 |Hospital

|462 |Shinkawasaki |35.550193 |139.670327 |大森赤十字病院 |35.578758
|139.717324 |Hospital

|463 |Shinkawasaki |35.550193 |139.670327 |太田記念病院 |36.298784
|139.360112 |Medical Center

|464 |Shinkawasaki |35.550193 |139.670327 |東京労災病院 |35.565437
|139.747178 |Hospital

|465 |Shinkawasaki |35.550193 |139.670327 |昭和大学病院附属東病院
|35.609807 |139.705365 |Hospital

|466 |Shinkawasaki |35.550193 |139.670327 |新横浜母と子の病院 |35.502972
|139.605374 |Hospital

|467 |Shinkawasaki |35.550193 |139.670327 |Tokyo-Shinagawa Hospital
(東京品川病院) |35.601756 |139.734810 |Hospital

|468 |Shinkawasaki |35.550193 |139.670327 |国立病院機構 東京医療センター
|35.625740 |139.666769 |Hospital

|469 |Shinkawasaki |35.550193 |139.670327 |独立行政法人 国立病院機構
|35.627380 |139.665141 |Hospital

|470 |Shinkawasaki |35.550193 |139.670327 |玉川病院 |35.620823
|139.624295 |Hospital

|471 |Shinkawasaki |35.550193 |139.670327 |昭和大学横浜市北部病院
|35.546916 |139.569876 |Hospital

|472 |Shinkawasaki |35.550193 |139.670327 |国家公務員共済組合連合会
三宿病院 |35.641969 |139.685258 |Hospital

|473 |Shinkawasaki |35.550193 |139.670327 |NTT Medical Center Tokyo
(NTT東日本関東病院) |35.631210 |139.725698 |Hospital

|474 |Shinkawasaki |35.550193 |139.670327 |関東中央病院 |35.637399
|139.626173 |Hospital

|475 |Shinkawasaki |35.550193 |139.670327 |Tokyo Kyosai Hospital
(東京共済病院) |35.641217 |139.703531 |Hospital

|476 |Shinkawasaki |35.550193 |139.670327 |自衛隊中央病院 |35.644779
|139.684774 |Hospital

|477 |Shinkawasaki |35.550193 |139.670327 |Tokyo Shinagawa Hospital
(東京高輪病院) |35.631449 |139.732125 |Hospital

|478 |Shinkawasaki |35.550193 |139.670327 |Keiyu Hospital (けいゆう病院)
|35.459343 |139.633450 |Hospital

|479 |Shinkawasaki |35.550193 |139.670327 |厚生中央病院 |35.641488
|139.712598 |Hospital

|480 |Shinkawasaki |35.550193 |139.670327
|品川シーズンテラス健診クリニック |35.632266 |139.743083 |Hospital

|481 |Shinkawasaki |35.550193 |139.670327 |東邦大学医療センター大橋病院
|35.652510 |139.684220 |Hospital

|482 |Shinkawasaki |35.550193 |139.670327
|横浜保土ヶ谷中央病院(旧横浜船員保険病院) |35.472346 |139.583748
|Hospital

|483 |Shinkawasaki |35.550193 |139.670327 |北里研究所病院 |35.645257
|139.726385 |Hospital

|484 |Shinkawasaki |35.550193 |139.670327 |川崎市立多摩病院 |35.620229

|139.572770 |Hospital

|485 |Shinkawasaki |35.550193 |139.670327 |有隣病院 |35.650871 |139.619491 |Hospital

|486 |Shinkawasaki |35.550193 |139.670327 |聖マリアンナ医科大学病院 |35.600725 |139.548200 |Hospital

|487 |Shinkawasaki |35.550193 |139.670327 |横浜市立みなと赤十字病院 |35.437063 |139.663186 |Hospital

|488 |Shinkawasaki |35.550193 |139.670327 |昭和大学藤が丘病院 |35.544869 |139.529389 |Hospital

|489 |Shinkawasaki |35.550193 |139.670327 |横浜総合病院 |35.570297 |139.527509 |Hospital

|490 |Shinkawasaki |35.550193 |139.670327 |IUHW Mita Hospital (国際医療福祉大学 三田病院) |35.653713 |139.742446 |Hospital

|491 |Shinkawasaki |35.550193 |139.670327 |東京都立 松沢病院 |35.667722 |139.618506 |Hospital

|492 |Shinkawasaki |35.550193 |139.670327 |東京慈恵会医科大学附属第三病院 |35.644487 |139.566381 |Hospital

|493 |Shinkawasaki |35.550193 |139.670327 |東京慈恵会医科大学附属病院 外来棟 |35.663454 |139.751387 |Hospital

|494 |Shinkawasaki |35.550193 |139.670327 |Cancer Institute Hospital (がん研有明病院) |35.633946 |139.794744 |Hospital

|495 |Shinkawasaki |35.550193 |139.670327 |Toranomon Hospital (虎の門病院) |35.668780 |139.746678 |Hospital

|496 |Shinkawasaki |35.550193 |139.670327 |昭和大学附属 烏山病院 |35.672087 |139.595792 |Hospital

|497 |Shinkawasaki |35.550193 |139.670327 |Keio University Hospital (慶應義塾大学病院) |35.681527 |139.718027 |Hospital

|498 |Shinkawasaki |35.550193 |139.670327 |慶應義塾大学病院1号館 |35.681338 |139.718941 |Hospital

|499 |Shinkawasaki |35.550193 |139.670327 |立正佼成会附属 佼成病院 |35.689777 |139.656170 |Hospital

|500 |Tokyo |35.685000 |139.751389 |akiba:F 献血ルーム |35.697690 |139.772493 |Medical Center

|501 |Tokyo |35.685000 |139.751389 |国立成育医療研究センター |35.633549 |139.612043 |Medical Center

|502 |Tokyo |35.685000 |139.751389 |Japan Red Cross Medical Center (日本赤十字社医療センター) |35.654831 |139.717755 |Medical Center

|503 |Tokyo |35.685000 |139.751389 |鶯谷健診センター |35.725696 |139.775926 |Medical Center

|504 |Tokyo |35.685000 |139.751389 |St. Luke's Hospital (聖路加国際病院) |35.667372 |139.777500 |Medical Center

|505 |Tokyo |35.685000 |139.751389 |関東ITソフトウェア健康保険組合 大久保健診センター |35.701846 |139.695944 |Medical Center

|506 |Tokyo |35.685000 |139.751389 |Tokyo Metropolitan Hiroo Hospital (東京都立広尾病院) |35.646944 |139.722337 |Medical Center

|507 |Tokyo |35.685000 |139.751389 |埼玉医科大学国際医療センター |35.921375 |139.322160 |Medical Center

|508 |Tokyo |35.685000 |139.751389 |JR東京総合病院 |35.685145 |139.700143 |Medical Center

|509 |Tokyo |35.685000 |139.751389 |Tokyo Women's Medical University Yachiyo Medic... |35.730192 |140.096734 |Medical Center

|510 |Tokyo |35.685000 |139.751389 |日本医科大学付属病院 |35.720718 |139.759709 |Medical Center

|511 |Tokyo |35.685000 |139.751389 |多摩総合医療センター |35.692046 |139.461426 |Medical Center

|512 |Tokyo |35.685000 |139.751389 |杉並保健所 |35.702270 |139.619959 |Medical Center

|513 |Tokyo |35.685000 |139.751389 |ハイメディック・東大病院 |35.710572 |139.765116 |Medical Center

|514 |Tokyo |35.685000 |139.751389 |総合検診センター ヘルチェック 新宿西口センター |35.686735 |139.694544 |Medical Center

|515 |Tokyo |35.685000 |139.751389 |保健センター駒場支所 |35.659373 |139.683839 |Medical Center

|516 |Tokyo |35.685000 |139.751389 |順天堂東京江東高齢者医療センター |35.665818 |139.833521 |Medical Center

|517 |Tokyo |35.685000 |139.751389 |東京リバーサイド病院 |35.737703 |139.807077 |Medical Center

|518 |Tokyo |35.685000 |139.751389 |The Jikei University Katsushika Medical Center... |35.751822 |139.858653 |Medical Center

|519 |Tokyo |35.685000 |139.751389 |東邦大学医療センター 大森病院 |35.569266 |139.723843 |Medical Center

|520 |Tokyo |35.685000 |139.751389 |かわさきルフロン献血ルーム |35.529890 |139.696873 |Medical Center

|521 |Tokyo |35.685000 |139.751389 |中野総合病院 |35.702901 |139.666990 |Medical Center

|522 |Tokyo |35.685000 |139.751389 |松戸市立総合医療センター |35.802918 |139.932432 |Medical Center

|523 |Tokyo |35.685000 |139.751389 |河北総合病院 本院 |35.706654 |139.638903 |Medical Center

|524 |Tokyo |35.685000 |139.751389 |国立療養所多磨全生園 |35.766269 |139.496520 |Medical Center

|525 |Tokyo |35.685000 |139.751389 |多摩北部医療センター |35.760666 |139.493048 |Medical Center

|526 |Tokyo |35.685000 |139.751389 |埼玉県総合リハビリテーションセンター |35.938461 |139.553583 |Medical Center

|527 |Tokyo |35.685000 |139.751389 |千葉医療センター |35.623107 |140.122097 |Medical Center

|528 |Tokyo |35.685000 |139.751389 |Chiba University Hospital (千葉大学医学部附属病院) |35.603818 |140.136001 |Medical Center

|529 |Tokyo |35.685000 |139.751389 |総合守谷第一病院 |35.967472 |139.966982 |Medical Center

|530 |Tokyo |35.685000 |139.751389 |東京都立小児総合医療センター |35.692145 |139.460685 |Hospital

|531 |Tokyo |35.685000 |139.751389 |新橋トラストクリニック |35.666350 |139.756028 |Doctor's Office

|532 |Tokyo |35.685000 |139.751389 |Tokyo Midtown Clinic (東京ミッドタウンクリニック) |35.666244 |139.731219 |Doctor's Office

|533 |Tokyo |35.685000 |139.751389 |春日クリニック |35.711892 |139.752365 |Doctor's Office

|534 |Tokyo |35.685000 |139.751389 |フィオーレ健診クリニック |35.698028 |139.709052 |Doctor's Office

|535 |Tokyo |35.685000 |139.751389 |フェニックスメディカルクリニック 本館 |35.678246 |139.705671 |Doctor's Office

|536 |Tokyo |35.685000 |139.751389 |愛育病院 |35.646179 |139.752582 |Doctor's Office

|537 |Tokyo |35.685000 |139.751389 |きらく内科クリニック |35.697500 |139.797336 |Doctor's Office

|538 |Tokyo |35.685000 |139.751389 |帝京大学ちば総合医療センター |35.466445 |140.062312 |Medical Center

|539 |Tokyo |35.685000 |139.751389 |JA茨城西南医療センター病院 |36.119115 |139.796032 |Medical Center

|540 |Tokyo |35.685000 |139.751389 |深川ギャザリアクリニック |35.666736 |139.804728 |Doctor's Office

|541 |Tokyo |35.685000 |139.751389 |オーバルコート健診クリニック |35.623107 |139.729029 |Doctor's Office

|542 |Tokyo |35.685000 |139.751389 |Eisei Hospital (永生病院) |35.639401 |139.305180 |Medical Center

|543 |Tokyo |35.685000 |139.751389 |ひもんや外科内科クリニック |35.620360 |139.681653 |Doctor's Office

|544 |Tokyo |35.685000 |139.751389 |はしもと内科クリニック |35.810866 |139.720307 |Doctor's Office

|545 |Tokyo |35.685000 |139.751389 |霞ヶ浦医療センター |36.072507 |140.192701 |Medical Center

|546 |Tokyo |35.685000 |139.751389 |川崎幸クリニック |35.534934 |139.690485 |Doctor's Office

|547 |Tokyo |35.685000 |139.751389 |保健センター本郷支所 |35.709264 |139.763195 |Hospital

|548 |Tokyo |35.685000 |139.751389 |埼玉県立 循環器・呼吸器病センター |36.111488 |139.304829 |Medical Center

|549 |Tokyo |35.685000 |139.751389 |永寿総合病院 |35.709898 |139.779683 |Hospital

|550 |Tokyo |35.685000 |139.751389 |とちぎメディカルセンターしもつが |36.365774 |139.727186 |Medical Center

|551 |Tokyo |35.685000 |139.751389 |自治医科大学附属病院 |36.398262 |139.860039 |Medical Center

|552 |Tokyo |35.685000 |139.751389 |社会医療法人財団 石心会 さやま総合クリニック |35.853096 |139.401460 |Doctor's Office

|553 |Tokyo |35.685000 |139.751389 |太田記念病院 |36.298784 |139.360112 |Medical Center

|554 |Tokyo |35.685000 |139.751389 |水戸医療センター |36.324884 |140.409507 |Medical Center

|555 |Tokyo |35.685000 |139.751389 |東京歯科大学 水道橋病院 |35.701420 |139.754750 |Hospital

|556 |Tokyo |35.685000 |139.751389 |Toranomon Hospital (虎の門病院)
|35.668780 |139.746678 |Hospital

|557 |Tokyo |35.685000 |139.751389 |東京医科歯科大学 歯学部附属病院
|35.700886 |139.764492 |Hospital

|558 |Tokyo |35.685000 |139.751389 |東京医科歯科大学医学部附属病院
|35.701114 |139.764175 |Hospital

|559 |Tokyo |35.685000 |139.751389 |Juntendo University Hospital
(順天堂大学医学部附属 順天堂医院) |35.702272 |139.762504 |Hospital

|560 |Tokyo |35.685000 |139.751389 |JCHO東京新宿メディカルセンター
|35.703452 |139.742318 |Hospital

|561 |Tokyo |35.685000 |139.751389 |東京慈恵会医科大学附属病院 外来棟
|35.663454 |139.751387 |Hospital

|562 |Tokyo |35.685000 |139.751389 |National Cancer Center Hospital
(国立がん研究センター中央病院) |35.665488 |139.768159 |Hospital

|563 |Tokyo |35.685000 |139.751389 |慶應義塾大学病院1号館 |35.681338
|139.718941 |Hospital

|564 |Tokyo |35.685000 |139.751389 |三井記念病院 |35.700022 |139.778912
|Hospital

|565 |Tokyo |35.685000 |139.751389 |Keio University Hospital
(慶應義塾大学病院) |35.681527 |139.718027 |Hospital

|566 |Tokyo |35.685000 |139.751389 |University of Tokyo Hospital
(東京大学医学部附属病院) |35.710694 |139.764522 |Hospital

|567 |Tokyo |35.685000 |139.751389 |東京女子医科大学病院
総合外来センター |35.698489 |139.720175 |Hospital

|568 |Tokyo |35.685000 |139.751389 |Tokyo Women's Medical University
Hospital (東京女... |35.698356 |139.719684 |Hospital

|569 |Tokyo |35.685000 |139.751389 |IUHW Mita Hospital (国際医療福祉大学
三田病院) |35.653713 |139.742446 |Hospital

|570 |Tokyo |35.685000 |139.751389 |Center Hospital of the National
Center for Glo... |35.701708 |139.716260 |Hospital

|571 |Tokyo |35.685000 |139.751389 |上都賀総合病院 |36.560955
|139.750486 |Medical Center

|572 |Tokyo |35.685000 |139.751389 |茨城県メディカルセンター |36.351408
|140.461303 |Medical Center

|573 |Tokyo |35.685000 |139.751389 |東京都立 大塚病院 |35.725157
|139.731279 |Hospital

|574 |Tokyo |35.685000 |139.751389 |北里研究所病院 |35.645257
|139.726385 |Hospital

|575 |Tokyo |35.685000 |139.751389 |都立駒込病院 |35.729939 |139.755663
|Hospital

|576 |Tokyo |35.685000 |139.751389 |東京山手メディカルセンター
|35.704301 |139.699342 |Hospital

|577 |Tokyo |35.685000 |139.751389 |Tokyo Medical University Hospital
(東京医科大学病院) |35.693644 |139.692003 |Hospital

|578 |Tokyo |35.685000 |139.751389 |昭和大学江東豊洲病院 |35.650253
|139.796240 |Hospital

|579 |Tokyo |35.685000 |139.751389 |品川シーズンテラス健診クリニック
|35.632266 |139.743083 |Hospital

|580 |Tokyo |35.685000 |139.751389 |厚生中央病院 |35.641488 |139.712598
|Hospital

|581 |Tokyo |35.685000 |139.751389 |東京都立墨東病院 |35.694955
|139.818320 |Hospital

|582 |Tokyo |35.685000 |139.751389 |Tokyo Shinagawa Hospital
(東京高輪病院) |35.631449 |139.732125 |Hospital

|583 |Tokyo |35.685000 |139.751389 |NTT Medical Center Tokyo
(NTT東日本関東病院) |35.631210 |139.725698 |Hospital

|584 |Tokyo |35.685000 |139.751389 |Seibo Hospital (聖母病院) |35.720273
|139.694606 |Hospital

|585 |Tokyo |35.685000 |139.751389 |Tokyo Kyosai Hospital (東京共済病院)
|35.641217 |139.703531 |Hospital

|586 |Tokyo |35.685000 |139.751389 |Cancer Institute Hospital
(がん研有明病院) |35.633946 |139.794744 |Hospital

|587 |Tokyo |35.685000 |139.751389 |東邦大学医療センター大橋病院
|35.652510 |139.684220 |Hospital

|588 |Tokyo |35.685000 |139.751389 |Tokyo Women's Medical University
Medical Cente... |35.748391 |139.765294 |Hospital

|589 |Tokyo |35.685000 |139.751389 |自衛隊中央病院 |35.644779
|139.684774 |Hospital

|590 |Tokyo |35.685000 |139.751389 |茨城県立中央病院 |36.350384
|140.320532 |Medical Center

|591 |Tokyo |35.685000 |139.751389 |国家公務員共済組合連合会 三宿病院

|35.641969 |139.685258 |Hospital

|592 |Tokyo |35.685000 |139.751389 |東京都リハビリテーション病院 |35.735779 |139.816094 |Hospital

|593 |Tokyo |35.685000 |139.751389 |立正佼成会附属 佼成病院 |35.689777 |139.656170 |Hospital

|594 |Tokyo |35.685000 |139.751389 |東京警察病院 |35.709094 |139.659405 |Hospital

|595 |Tokyo |35.685000 |139.751389 |豊島病院 |35.752404 |139.701276 |Hospital

|596 |Tokyo |35.685000 |139.751389 |Teikyo University Hospital (帝京大学医学部附属病院) |35.758916 |139.713983 |Hospital

|597 |Tokyo |35.685000 |139.751389 |日本大学医学部附属板橋病院 |35.749082 |139.691841 |Hospital

|598 |Tokyo |35.685000 |139.751389 |昭和大学病院附属東病院 |35.609807 |139.705365 |Hospital

|599 |Tokyo |35.685000 |139.751389 |Tokyo-Shinagawa Hospital (東京品川病院) |35.601756 |139.734810 |Hospital

|600 |Yokohama |35.433333 |139.650000 |akiba:F 献血ルーム |35.697690 |139.772493 |Medical Center

|601 |Yokohama |35.433333 |139.650000 |国立成育医療研究センター |35.633549 |139.612043 |Medical Center

|602 |Yokohama |35.433333 |139.650000 |Japan Red Cross Medical Center (日本赤十字社医療センター) |35.654831 |139.717755 |Medical Center

|603 |Yokohama |35.433333 |139.650000 |St. Luke's Hospital (聖路加国際病院) |35.667372 |139.777500 |Medical Center

|604 |Yokohama |35.433333 |139.650000 |鶯谷健診センター |35.725696 |139.775926 |Medical Center

|605 |Yokohama |35.433333 |139.650000 |関東ITソフトウェア健康保険組合 大久保健診センター |35.701846 |139.695944 |Medical Center

|606 |Yokohama |35.433333 |139.650000 |Tokyo Metropolitan Hiroo Hospital (東京都立広尾病院) |35.646944 |139.722337 |Medical Center

|607 |Yokohama |35.433333 |139.650000 |埼玉医科大学国際医療センター |35.921375 |139.322160 |Medical Center

|608 |Yokohama |35.433333 |139.650000 |JR東京総合病院 |35.685145 |139.700143 |Medical Center

|609 |Yokohama |35.433333 |139.650000 |Tokyo Women's Medical University Yachiyo Medic... |35.730192 |140.096734 |Medical Center

|610 |Yokohama |35.433333 |139.650000 |多摩総合医療センター |35.692046 |139.461426 |Medical Center

|611 |Yokohama |35.433333 |139.650000 |日本医科大学付属病院 |35.720718 |139.759709 |Medical Center

|612 |Yokohama |35.433333 |139.650000 |かわさきルフロン献血ルーム |35.529890 |139.696873 |Medical Center

|613 |Yokohama |35.433333 |139.650000 |東邦大学医療センター 大森病院 |35.569266 |139.723843 |Medical Center

|614 |Yokohama |35.433333 |139.650000 |杉並保健所 |35.702270 |139.619959 |Medical Center

|615 |Yokohama |35.433333 |139.650000 |保健センター駒場支所 |35.659373 |139.683839 |Medical Center

|616 |Yokohama |35.433333 |139.650000 |総合検診センター ヘルチェック 新宿西口センター |35.686735 |139.694544 |Medical Center

|617 |Yokohama |35.433333 |139.650000 |順天堂東京江東高齢者医療センター |35.665818 |139.833521 |Medical Center

|618 |Yokohama |35.433333 |139.650000 |ハイメディック・東大病院 |35.710572 |139.765116 |Medical Center

|619 |Yokohama |35.433333 |139.650000 |東京リバーサイド病院 |35.737703 |139.807077 |Medical Center

|620 |Yokohama |35.433333 |139.650000 |多摩北部医療センター |35.760666 |139.493048 |Medical Center

|621 |Yokohama |35.433333 |139.650000 |国立療養所多磨全生園 |35.766269 |139.496520 |Medical Center

|622 |Yokohama |35.433333 |139.650000 |中野総合病院 |35.702901 |139.666990 |Medical Center

|623 |Yokohama |35.433333 |139.650000 |The Jikei University Katsushika Medical Center... |35.751822 |139.858653 |Medical Center

|624 |Yokohama |35.433333 |139.650000 |河北総合病院 本院 |35.706654 |139.638903 |Medical Center

|625 |Yokohama |35.433333 |139.650000 |東京都立小児総合医療センター |35.692145 |139.460685 |Hospital

|626 |Yokohama |35.433333 |139.650000 |千葉医療センター |35.623107 |140.122097 |Medical Center

|627 |Yokohama |35.433333 |139.650000 |Chiba University Hospital
(千葉大学医学部附属病院) |35.603818 |140.136001 |Medical Center

|628 |Yokohama |35.433333 |139.650000 |松戸市立総合医療センター
|35.802918 |139.932432 |Medical Center

|629 |Yokohama |35.433333 |139.650000 |帝京大学ちば総合医療センター
|35.466445 |140.062312 |Medical Center

|630 |Yokohama |35.433333 |139.650000 |Eisei Hospital (永生病院)
|35.639401 |139.305180 |Medical Center

|631 |Yokohama |35.433333 |139.650000 |高木病院 |35.793597 |139.305731
|Medical Center

|632 |Yokohama |35.433333 |139.650000 |川崎幸クリニック |35.534934
|139.690485 |Doctor's Office

|633 |Yokohama |35.433333 |139.650000
埼玉県総合リハビリテーションセンター |35.938461 |139.553583 |Medical
Center

|634 |Yokohama |35.433333 |139.650000 |ひもんや外科内科クリニック
|35.620360 |139.681653 |Doctor's Office

|635 |Yokohama |35.433333 |139.650000 |オーバルコート健診クリニック
|35.623107 |139.729029 |Doctor's Office

|636 |Yokohama |35.433333 |139.650000 |総合守谷第一病院 |35.967472
|139.966982 |Medical Center

|637 |Yokohama |35.433333 |139.650000 |愛育病院 |35.646179 |139.752582
|Doctor's Office

|638 |Yokohama |35.433333 |139.650000 |Tokyo Midtown Clinic
(東京ミッドタウンクリニック) |35.666244 |139.731219 |Doctor's Office

|639 |Yokohama |35.433333 |139.650000 |新橋トラストクリニック |35.666350
|139.756028 |Doctor's Office

|640 |Yokohama |35.433333 |139.650000 |フェニックスメディカルクリニック
本館 |35.678246 |139.705671 |Doctor's Office

|641 |Yokohama |35.433333 |139.650000 |深川ギャザリアクリニック
|35.666736 |139.804728 |Doctor's Office

|642 |Yokohama |35.433333 |139.650000 |フィオーレ健診クリニック
|35.698028 |139.709052 |Doctor's Office

|643 |Yokohama |35.433333 |139.650000 |きらく内科クリニック |35.697500
|139.797336 |Doctor's Office

|644 |Yokohama |35.433333 |139.650000 |春日クリニック |35.711892
|139.752365 |Doctor's Office

|645 |Yokohama |35.433333 |139.650000 |JA茨城西南医療センター病院
|36.119115 |139.796032 |Medical Center

|646 |Yokohama |35.433333 |139.650000 |埼玉県立 循環器・呼吸器病センター
|36.111488 |139.304829 |Medical Center

|647 |Yokohama |35.433333 |139.650000 |はしもと内科クリニック |35.810866
|139.720307 |Doctor's Office

|648 |Yokohama |35.433333 |139.650000 |霞ヶ浦医療センター |36.072507
|140.192701 |Medical Center

|649 |Yokohama |35.433333 |139.650000 |静岡県立 静岡がんセンター
|35.156635 |138.884565 |Medical Center

|650 |Yokohama |35.433333 |139.650000 |保健センター本郷支所 |35.709264
|139.763195 |Hospital

|651 |Yokohama |35.433333 |139.650000 |横浜市立みなと赤十字病院
|35.437063 |139.663186 |Hospital

|652 |Yokohama |35.433333 |139.650000 |社会医療法人財団 石心会
さやま総合クリニック |35.853096 |139.401460 |Doctor's Office

|653 |Yokohama |35.433333 |139.650000 |Keiyu Hospital (けいゆう病院)
|35.459343 |139.633450 |Hospital

|654 |Yokohama |35.433333 |139.650000 |磯子中央病院 |35.407149
|139.621619 |Hospital

|655 |Yokohama |35.433333 |139.650000 |永寿総合病院 |35.709898
|139.779683 |Hospital

|656 |Yokohama |35.433333 |139.650000 |聖隷横浜病院 |35.442720
|139.604886 |Hospital

|657 |Yokohama |35.433333 |139.650000
|横浜保土ヶ谷中央病院(旧横浜船員保険病院) |35.472346 |139.583748
|Hospital

|658 |Yokohama |35.433333 |139.650000 |東戸塚記念病院 |35.431661
|139.559369 |Hospital

|659 |Yokohama |35.433333 |139.650000 |新横浜母と子の病院 |35.502972
|139.605374 |Hospital

|660 |Yokohama |35.433333 |139.650000 |横浜市南部病院 |35.375335
|139.579044 |Hospital

|661 |Yokohama |35.433333 |139.650000 |横浜労災病院 |35.510782
|139.611178 |Hospital

|662 |Yokohama |35.433333 |139.650000 |日本鋼管病院 |35.519479 |139.712176 |Hospital

|663 |Yokohama |35.433333 |139.650000 |川崎幸病院 |35.528437 |139.692144 |Hospital

|664 |Yokohama |35.433333 |139.650000 |太田総合病院 |35.528102 |139.696151 |Hospital

|665 |Yokohama |35.433333 |139.650000 |川崎市立川崎病院 |35.526453 |139.706038 |Hospital

|666 |Yokohama |35.433333 |139.650000 |横浜南共済病院 |35.320614 |139.622380 |Hospital

|667 |Yokohama |35.433333 |139.650000 |聖マリアンナ医科大学横浜市西部病院 |35.476997 |139.501852 |Hospital

|668 |Yokohama |35.433333 |139.650000 |国立病院機構 横浜医療センター |35.379804 |139.504548 |Hospital

|669 |Yokohama |35.433333 |139.650000 |昭和大学横浜市北部病院 |35.546916 |139.569876 |Hospital

|670 |Yokohama |35.433333 |139.650000 |東京蒲田医療センター |35.554650 |139.723450 |Hospital

|671 |Yokohama |35.433333 |139.650000 |市立甲府病院 |35.634674 |138.591395 |Medical Center

|672 |Yokohama |35.433333 |139.650000 |横浜旭中央総合病院 |35.507192 |139.497983 |Hospital

|673 |Yokohama |35.433333 |139.650000 |日本医科大学 武蔵小杉病院 |35.579417 |139.658643 |Hospital

|674 |Yokohama |35.433333 |139.650000 |横浜新都市脳神経外科病院 |35.560464 |139.558638 |Hospital

|675 |Yokohama |35.433333 |139.650000 |藤沢湘南台病院 |35.417043 |139.470144 |Hospital

|676 |Yokohama |35.433333 |139.650000 |昭和大学藤が丘病院 |35.544869 |139.529389 |Hospital

|677 |Yokohama |35.433333 |139.650000 |富士通クリニック |35.583235 |139.641626 |Hospital

|678 |Yokohama |35.433333 |139.650000 |東京労災病院 |35.565437 |139.747178 |Hospital

|679 |Yokohama |35.433333 |139.650000 |大森赤十字病院 |35.578758 |139.717324 |Hospital

|680 |Yokohama |35.433333 |139.650000 |太田記念病院 |36.298784 |139.360112 |Medical Center

|681 |Yokohama |35.433333 |139.650000 |横須賀共済病院 |35.277174 |139.674242 |Hospital

|682 |Yokohama |35.433333 |139.650000 |荏原病院 |35.593503 |139.692498 |Hospital

|683 |Yokohama |35.433333 |139.650000 |Yamato Municipal Hospital (大和市立病院) |35.486926 |139.458589 |Hospital

|684 |Yokohama |35.433333 |139.650000 |横浜総合病院 |35.570297 |139.527509 |Hospital

|685 |Yokohama |35.433333 |139.650000 |Tokyo-Shinagawa Hospital (東京品川病院) |35.601756 |139.734810 |Hospital

|686 |Yokohama |35.433333 |139.650000 |昭和大学病院附属東病院 |35.609807 |139.705365 |Hospital

|687 |Yokohama |35.433333 |139.650000 |聖マリアンナ医科大学病院 |35.600725 |139.548200 |Hospital

|688 |Yokohama |35.433333 |139.650000 |玉川病院 |35.620823 |139.624295 |Hospital

|689 |Yokohama |35.433333 |139.650000 |湘南藤沢徳洲会病院 |35.340889 |139.445559 |Hospital

|690 |Yokohama |35.433333 |139.650000 |東芝林間病院 |35.520316 |139.440810 |Hospital

|691 |Yokohama |35.433333 |139.650000 |国立病院機構 東京医療センター |35.625740 |139.666769 |Hospital

|692 |Yokohama |35.433333 |139.650000 |独立行政法人 国立病院機構 |35.627380 |139.665141 |Hospital

|693 |Yokohama |35.433333 |139.650000 |川崎市立多摩病院 |35.620229 |139.572770 |Hospital

|694 |Yokohama |35.433333 |139.650000 |関東中央病院 |35.637399 |139.626173 |Hospital

|695 |Yokohama |35.433333 |139.650000 |NTT Medical Center Tokyo (NTT東日本関東病院) |35.631210 |139.725698 |Hospital

|696 |Yokohama |35.433333 |139.650000 |Tokyo Shinagawa Hospital (東京高輪病院) |35.631449 |139.732125 |Hospital

|697 |Yokohama |35.433333 |139.650000 |新百合ヶ丘総合病院 |35.604312 |139.499283 |Hospital

|698 |Yokohama |35.433333 |139.650000 |国家公務員共済組合連合会 三宿病院
|35.641969 |139.685258 |Hospital

|699 |Yokohama |35.433333 |139.650000 |Tokyo Kyosai Hospital
(東京共済病院) |35.641217 |139.703531 |Hospital
|===

+*In[23]:*+
[source, ipython3]
----
mc_venues.groupby('City').count()

+*Out[23]:*+

City Latitude

City Longitude

Medical Facility

Facility Latitude

Facility Longitude

Facility Category

City

Chiba

100

100

100

100

100

100

Hachioji

100

100

100

100

100

100

Kawagoe

100

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Saitama

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Shinkawasaki

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Tokyo

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Yokohama

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100

100

100

100

+*In[24]:*+
[source, ipython3]

Use one hot encoding method to determine unit distribution of the
varying types of categories of medical centers per prefecture
    # one hot encoding
mc_onehot = pd.get_dummies(mc_venues[['Facility Category']], prefix="", prefix_sep="")

    # add neighborhood column back to dataframe
mc_onehot['City'] = mc_venues['City']

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

mc_onehot

+*Out[24]:*+

[cols=",,,,",options="header",]
|===
| |City |Doctor's Office |Hospital |Medical Center
|0 |Chiba |0 |0 |1
|1 |Chiba |0 |0 |1
|2 |Chiba |0 |0 |1
|3 |Chiba |0 |0 |1
|4 |Chiba |0 |0 |1
|5 |Chiba |0 |0 |1
|6 |Chiba |0 |0 |1
|7 |Chiba |0 |0 |1
|8 |Chiba |0 |0 |1
|9 |Chiba |0 |0 |1
|10 |Chiba |0 |0 |1
|11 |Chiba |0 |0 |1
|12 |Chiba |0 |0 |1
|13 |Chiba |0 |0 |1
|14 |Chiba |0 |0 |1
|15 |Chiba |0 |0 |1
|16 |Chiba |0 |0 |1
|17 |Chiba |0 |0 |1
|18 |Chiba |0 |0 |1
|19 |Chiba |0 |0 |1
|20 |Chiba |0 |0 |1
|21 |Chiba |0 |0 |1
|22 |Chiba |0 |0 |1
|23 |Chiba |0 |0 |1
|24 |Chiba |0 |0 |1
|25 |Chiba |0 |0 |1
|26 |Chiba |0 |0 |1
|27 |Chiba |0 |1 |0
|28 |Chiba |0 |0 |1
|29 |Chiba |0 |0 |1
|30 |Chiba |0 |0 |1
|31 |Chiba |0 |0 |1
|32 |Chiba |0 |0 |1
|33 |Chiba |0 |0 |1
|34 |Chiba |0 |0 |1
|35 |Chiba |0 |1 |0
|36 |Chiba |1 |0 |0
|37 |Chiba |1 |0 |0
|38 |Chiba |0 |0 |1
|39 |Chiba |1 |0 |0
|40 |Chiba |1 |0 |0
|41 |Chiba |1 |0 |0
|42 |Chiba |1 |0 |0
|43 |Chiba |1 |0 |0
|44 |Chiba |1 |0 |0
|45 |Chiba |1 |0 |0
|46 |Chiba |1 |0 |0
|47 |Chiba |1 |0 |0
|48 |Chiba |0 |0 |1
|49 |Chiba |0 |0 |1
|50 |Chiba |1 |0 |0
|51 |Chiba |0 |0 |1
|52 |Chiba |0 |0 |1
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|68 |Chiba |0 |1 |0
|69 |Chiba |1 |0 |0
|70 |Chiba |0 |1 |0
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|81 |Chiba |0 |1 |0
|82 |Chiba |0 |1 |0
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|98 |Chiba |0 |1 |0
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|125 |Hachioji |0 |0 |1
|126 |Hachioji |0 |0 |1
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```

+*In[25]:*+
[source, ipython3]

```python
# Observe normalized distribution of medical centers in the cities
mc_grouped = mc_onehot.groupby('City').mean().reset_index()
mc_grouped
```

+*Out[25]:*+

[cols=",,,,",options="header",]
|===
| |City |Doctor's Office |Hospital |Medical Center
|0 |Chiba |0.13 |0.45 |0.42
|1 |Hachioji |0.13 |0.46 |0.41
|2 |Kawagoe |0.13 |0.44 |0.43
|3 |Saitama |0.13 |0.46 |0.41
|4 |Shinkawasaki |0.13 |0.48 |0.39
|5 |Tokyo |0.13 |0.45 |0.42
|6 |Yokohama |0.13 |0.48 |0.39
|===

+*In[26]:*+
[source, ipython3]

```python
# Check top three abundant types of facilities
num_top_mc = 3

for mc in mc_grouped['City']:
    print("----"+mc+"----")
    temp = mc_grouped[mc_grouped['City'] == mc].T.reset_index()
```

```
    temp.columns = ['Medical Facility','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_mc))
    print('\n')
----
```

+*Out[26]:*+

```
----Chiba----
   Medical Facility  freq
0          Hospital  0.45
1    Medical Center  0.42
2    Doctor's Office  0.13


----Hachioji----
   Medical Facility  freq
0          Hospital  0.46
1    Medical Center  0.41
2    Doctor's Office  0.13


----Kawagoe----
   Medical Facility  freq
0          Hospital  0.44
1    Medical Center  0.43
2    Doctor's Office  0.13


----Saitama----
   Medical Facility  freq
0          Hospital  0.46
1    Medical Center  0.41
2    Doctor's Office  0.13


----Shinkawasaki----
   Medical Facility  freq
0          Hospital  0.48
1    Medical Center  0.39
2    Doctor's Office  0.13


----Tokyo----
   Medical Facility  freq
0          Hospital  0.45
1    Medical Center  0.42
2    Doctor's Office  0.13


----Yokohama----
   Medical Facility  freq
0          Hospital  0.48
1    Medical Center  0.39
2    Doctor's Office  0.13


----
```

+*In[27]:*+
[source, ipython3]

```
def return_most_common_med(row, num_top_mc):
    row_categories = row.iloc[1:]
    row_categories_sorted = row_categories.sort_values(ascending=False)

    return row_categories_sorted.index.values[0:num_top_mc]
```

+*In[28]:*+
[source, ipython3]

```
# Check top 3 facilities and sort by frequency relative to city
num_top_mc = 3

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

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

# create a new dataframe
mc_sorted = pd.DataFrame(columns=columns)
mc_sorted['City'] = mc_grouped['City']

for ind in np.arange(mc_grouped.shape[0]):
    mc_sorted.iloc[ind, 1:] = return_most_common_med(mc_grouped.iloc[ind, :], num_top_mc)

mc_sorted.head()
```

+*Out[28]:*+

[cols=",,,,",options="header",]
|===
| |City |1st Most Common Facility |2nd Most Common Facility |3rd Most
Common Facility
|0 |Chiba |Hospital |Medical Center |Doctor's Office

|1 |Hachioji |Hospital |Medical Center |Doctor's Office

|2 |Kawagoe |Hospital |Medical Center |Doctor's Office

|3 |Saitama |Hospital |Medical Center |Doctor's Office

|4 |Shinkawasaki |Hospital |Medical Center |Doctor's Office
|===

[[performing-k-mean-clusters-to-determine-distribution-of-medical-facilities-surrounding-tokyo]]
=== Performing K-Mean Clusters to Determine Distribution of Medical
Facilities Surrounding Tokyo

+*In[29]:*+
[source, ipython3]

# set number of clusters
kclusters = 5

mc_grouped_clustering = mc_grouped.drop('City', 1)

# run k-means clustering
kmeans = KMeans(n_clusters=kclusters, random_state=0).fit(mc_grouped_clustering)

check cluster labels generated for each row in the dataframe
kmeans.labels_[0:10]

+*Out[29]:*+

/anaconda3/lib/python3.7/site-packages/sklearn/cluster/k_means_.py:971: ConvergenceWarning: Number of distinct clusters (4) found smaller than n_clusters (5). Possibly due to duplicate points in X.
  return_n_iter=True)
array([1, 2, 3, 2, 0, 1, 0], dtype=int32)----

+*In[30]:*+
[source, ipython3]

# add clustering labels
mc_sorted.insert(0, 'Cluster Labels', kmeans.labels_)

mc_merged = tokyo_health

# merge to add latitude/longitude for each city
mc_merged = mc_merged.join(mc_sorted.set_index('City'), on='City')
mc_merged.head()

+*Out[30]:*+

[cols=",,,,,,,,,,,,",options="header",]
|===
| |City |Latitude |Longitude |Country |ID |Admin |Capital |Population
|Population Proper |Cluster Labels |1st Most Common Facility |2nd Most
Common Facility |3rd Most Common Facility
|0 |Chiba |35.600000 |140.116667 |Japan |JP |Chiba |admin |NaN |NaN |1
|Hospital |Medical Center |Doctor's Office

|1 |Hachioji |35.655833 |139.323889 |Japan |JP |Tōkyō |NaN |579399.0
|579399.0 |2 |Hospital |Medical Center |Doctor's Office

|2 |Kawagoe |35.908611 |139.485278 |Japan |JP |Saitama |NaN |337931.0
|337931.0 |3 |Hospital |Medical Center |Doctor's Office

|3 |Saitama |35.900000 |139.650000 |Japan |JP |Saitama |admin |NaN |NaN
|2 |Hospital |Medical Center |Doctor's Office

|4 |Shinkawasaki |35.550193 |139.670327 |Japan |JP |Kanagawa |NaN
|1437266.0 |1306785.0 |0 |Hospital |Medical Center |Doctor's Office
|===

+*In[31]:*+
[source, ipython3]

Add cluster groups to the Japan Map
    # set color scheme for the clusters
x = np.arange(kclusters)
ys = [i + x + (i*x)**2 for i in range(kclusters)]
colors_array = cm.rainbow(np.linspace(0, 1, len(ys)))
rainbow = [colors.rgb2hex(i) for i in colors_array]

    # add markers to the map
markers_colors = []
for lat, lon, poi, cluster in zip(mc_merged['Latitude'], mc_merged['Longitude'], mc_merged['City'], mc_merged['Cluster Labels'].astype(int)):
    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_japan)

map_japan

+*Out[31]:*+

[[examining-cluster-groups]]
=== Examining Cluster Groups

[[cluster-0]]
==== Cluster 0

+*In[32]:*+
[source, ipython3]
----
c0 = mc_merged.loc[mc_merged['Cluster Labels'] == 0, mc_merged.columns[[0] + list(range(5, mc_merged.shape[1]))]].reset_index(drop = True)
c0

+*Out[32]:*+

[cols=",,,,,,,,,",options="header",]
|===
| |City |Admin |Capital |Population |Population Proper |Cluster Labels
|1st Most Common Facility |2nd Most Common Facility |3rd Most Common
Facility
|0 |Shinkawasaki |Kanagawa |NaN |1437266.0 |1306785.0 |0 |Hospital
|Medical Center |Doctor's Office

|1 |Yokohama |Kanagawa |admin |3697894.0 |3697894.0 |0 |Hospital
|Medical Center |Doctor's Office
|===

[[cluster-i]]
==== Cluster I

+*In[33]:*+
[source, ipython3]
----
c1 = mc_merged.loc[mc_merged['Cluster Labels'] == 1, mc_merged.columns[[0] + list(range(5, mc_merged.shape[1]))]].reset_index(drop = True)
c1

+*Out[33]:*+

[cols=",,,,,,,,,",options="header",]
|===
| |City |Admin |Capital |Population |Population Proper |Cluster Labels
|1st Most Common Facility |2nd Most Common Facility |3rd Most Common
Facility
|0 |Chiba |Chiba |admin |NaN |NaN |1 |Hospital |Medical Center |Doctor's
Office

|1 |Tokyo |Tōkyō |primary |35676000.0 |8336599.0 |1 |Hospital |Medical
Center |Doctor's Office
|===

[[cluster-ii]]
==== Cluster II

+*In[34]:*+
[source, ipython3]
----
c2 = mc_merged.loc[mc_merged['Cluster Labels'] == 2, mc_merged.columns[[0] + list(range(5, mc_merged.shape[1]))]].reset_index(drop = True)
c2

+*Out[34]:*+

[cols=",,,,,,,,,",options="header",]
|===
| |City |Admin |Capital |Population |Population Proper |Cluster Labels
|1st Most Common Facility |2nd Most Common Facility |3rd Most Common
Facility
|0 |Hachioji |Tōkyō |NaN |579399.0 |579399.0 |2 |Hospital |Medical
Center |Doctor's Office

|1 |Saitama |Saitama |admin |NaN |NaN |2 |Hospital |Medical Center
|Doctor's Office
|===

[[cluster-iii]]
==== Cluster III

+*In[35]:*+
[source, ipython3]
----
c4 = mc_merged.loc[mc_merged['Cluster Labels'] == 3, mc_merged.columns[[0] + list(range(5, mc_merged.shape[1]))]].reset_index(drop = True)
c4

+*Out[35]:*+

[cols=",,,,,,,,,",options="header",]
|===
| |City |Admin |Capital |Population |Population Proper |Cluster Labels
|1st Most Common Facility |2nd Most Common Facility |3rd Most Common
Facility
|0 |Kawagoe |Saitama |NaN |337931.0 |337931.0 |3 |Hospital |Medical
Center |Doctor's Office
|===