

# Capstone Project

## Week 5: Peer-graded Assignment: Capstone Project - The Battle of Neighborhoods (Week 2)

### Table of Content

1. [Introduction: Business Problem](#)
2. [Data](#)
3. [Methodology](#)
4. [Analysis](#)
5. [Results and Discussion](#)
6. [Conclusion](#)
7. [Reference](#)

### 1. Introduction: Business Problem

"A Big Catering Company" (ABC Company) is a medium sized catering company based in Hong Kong, which owns 1 steak house and 10 Japanese restaurants in Hong Kong island. In 2019, ABC Company is going to open a restaurant at "Tseung Kwan O", where is a fast growing residential area locates at the eastern part of Kowloon Peninsula.

As the rent in Hong Kong is extremely high, ABC company decides to use Data Science techniques to produce more insights that are helpful for senior management to determine where is the most profit making place and what kind of food that welcomed by the surrounding residents most.

Since last year, there are over a half million of population moved into Tseung Kwan O area, and many new restaurants are opened. ABC Company wish to open a restaurant. Their requirements are given below:

1. The company wishes to open Japanese style restaurant or steak house so that they don't need extra cost to setup the menu of another kind of food
2. They want to bring something new to the community, i.e. the new restaurant will provide different kind of food that the local residents never tried in their home region.
3. They want the restaurant's surrounding has sufficient electric EV charging locations.

After solving the problem, we expect the results could provide information for determining:

1. what kind of restaurant the company should open.
2. where would the company open the restaurant.

**A description of the data and how it will be used to solve the problem. (15 marks)**

### 2. Data

We will utilize the information from the following two datasets to solve the problem:

1. First, we will use information by Foursquare API. It contains restaurant categories, location data (i.e. lat long), ratings and could be retrieved according to a given location of interest.
2. Second, we will use the "Electric vehicle charging station locations" open dataset provided by the Hong Kong government. By giving a location, the location of the charging stations could be found. We could count the number of nearby charging stations and this form part of the decision making criteria. The URL is: <https://data.gov.hk/en-data/dataset/clp-team1-electric-vehicle-charging-location> (<https://data.gov.hk/en-data/dataset/clp-team1-electric-vehicle-charging-location>)

## 2.1 Description of the Data

Before the actual analysis, Let's take a look of the data. We will introduce what information that contained in the two datasets: (1) The Foursquare Place API, and (2) Open Dataset of "Electric vehicle charging station locations" by Hong Kong Government.

First of all, we import the necessary libraries as follows:

In [1]:

```
import numpy as np # Library to handle data in a vectorized manner

import pandas as pd # Library for data analysis
pd.set_option('display.max_columns', None)
pd.set_option('display.max_rows', None)

import json # Library to handle JSON files

#!conda install -c conda-forge geopy --yes # uncomment this line if you haven't completed the Foursquare API Lab
from geopy.geocoders import Nominatim # convert an address into latitude and longitude values

import requests # Library to handle requests
from pandas.io.json import json_normalize # transform JSON file into a pandas dataframe

# Matplotlib and associated plotting modules
import matplotlib.cm as cm
import matplotlib.colors as colors

# import k-means from clustering stage
from sklearn.cluster import KMeans

#!conda install -c conda-forge folium=0.5.0 --yes
import folium # map rendering library

print('Libraries imported.')
```

Libraries imported.

## 2.2 The Foursquare Place API

The Foursquare Place API provides an easy method for data scientists to access to geolocation information by querying any place of interest. To use the Foursquare API, we need to open an account and obtain a pair of client ID and secret key (We hide the ID/key here for security reason).

In [2]:

```
# @hidden_cell
CLIENT_ID = 'ME1HB2KTTFR33QWG4VKMU5ES1WJGYLECXQNYJTY2UTEJ0NPR' #'your-client-ID' # your
# Foursquare ID
CLIENT_SECRET = 'RZDZCBOHS0VF30F1DD3AMS2EV0KYXSXDT3SQYJABQHTNNMVW' #'your-client-secre
t' # your Foursquare Secret
VERSION = '20180605' # Foursquare API version
```

With the Foursquare API, we can tell people where they are, recommend a place, find a specific place nearby, and get tips on a given place. In this project, we will find a specific place nearby a target location. We will call the API with the following code:

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

where

- input "client\_id" and "client\_secret" = Foursquare account login ID/key
- input "v" = API version
- input "ll" = {latitude, longitude} i.e. the global coordinates of the target location
- input "limit" = limit of number of venues returned by Foursquare API
- input "radius" = define radius around the target location
- output is in JSON format, results is represented in a list in ascending order of distance to the specified location

The latitude and longitude of the target location can be looked up by the geolocator imported from the Nominatim library (please refer to the "import" code snippet above). The example below shows how to get the latitude and longitude of Hong Kong.

In [3]:

```
address = 'Hong Kong'

geolocator = Nominatim(user_agent="tt_explorer")
location = geolocator.geocode(address)
latitude = location.latitude
longitude = location.longitude
print('The geographical coordinate of Hong Kong are {}, {}'.format(latitude, longitude))
```

The geographical coordinate of Hong Kong are 22.2793278, 114.1628131.

Next, we will display all the venues nearby a target location -- the center of Hong Kong within a range of 500 meters using the Foursquare Place API. The code and example result will be shown below. This is the raw data that contains all venues.

In [4]:

```
LIMIT = 100 # Limit of number of venues returned by Foursquare API
radius = 1000 # define radius
url = 'https://api.foursquare.com/v2/venues/explore?&client_id={}&client_secret={}&v={}&ll={},{}&radius={}&limit={}'.format(
    CLIENT_ID,
    CLIENT_SECRET,
    VERSION,
    latitude,
    longitude,
    radius,
    LIMIT)
#url # display URL

results = requests.get(url).json()
results
```

Out[4]:

```
{'meta': {'code': 200, 'requestId': '5cd8fd3d9fb6b7571a319e32'},  
  'response': {'groups': [{ 'items': [ { 'reasons': { 'count': 0,  
          'items': [ { 'reasonName': 'globalInteractionReason',  
              'summary': 'This spot is popular',  
              'type': 'general' } ] },  
        'referralId': 'e-0-4b0588d2f964a5208bdb22e3-0',  
        'venue': { 'categories': [ { 'icon': { 'prefix': 'https://ss3.4sqi.net/i  
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              'suffix': '.png' } },  
          'id': '4bf58dd8d48988d163941735',  
          'name': 'Park',  
          'pluralName': 'Parks',  
          'primary': True,  
          'shortName': 'Park' } ],  
        'id': '4b0588d2f964a5208bdb22e3',  
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          'cc': 'HK',  
          'city': '中環',  
          'country': '香港',  
          'distance': 206,  
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          'lat': 22.27769953093909,  
          'lng': 114.16185379028319,  
          'neighborhood': 'Central',  
          'state': '中西區' },  
        'name': 'Hong Kong Park (香港公園)',  
        'photos': { 'count': 0, 'groups': [] } } },  
    { 'reasons': { 'count': 0,  
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              'suffix': '.png' } },  
          'id': '4bf58dd8d48988d175941735',  
          'name': 'Gym / Fitness Center',  
          'pluralName': 'Gyms or Fitness Centers',  
          'primary': True,  
          'shortName': 'Gym / Fitness' } ],  
        'id': '56ad7bf6498e83964e53a64d',  
        'location': { 'address': '3/F ICBC Tower, Citibank Plaza 3 Garden R  
d',  
          'cc': 'HK',  
          'city': '中環',  
          'country': '香港',  
          'distance': 176,  
          'formattedAddress': ['3/F ICBC Tower, Citibank Plaza 3 Garden Rd',  
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              '香港' ],  
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              'lng': 114.16136336387987 } ],  
          'lat': 22.27847490862232,  
          'lng': 114.16136336387987,  
          'state': '中西區' } }
```

```
'name': 'Pure Fitness',
'photos': {'count': 0, 'groups': []}},
{'reasons': {'count': 0,
'items': [{['reasonName': 'globalInteractionReason',
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'primary': True,
'shortName': 'Steakhouse'}]},
'id': '4bc0649ab492d13ae52ca460',
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'cc': 'HK',
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'neighborhood': 'Central',
'state': '中西區'},
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'photos': {'count': 0, 'groups': []}},
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{'name': 'Hong Kong Park Aviary (香港公園觀鳥園)' ,
```

```
'photos': {'count': 0, 'groups': []}}},  
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'type': 'general'}]}},  
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'state': '中西區'},  
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'suffix': '.png'}},  
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'city': '金鐘',  
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'lng': 114.16431}],  
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'lng': 114.16431,  
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g',  
'state': '中西區'},  
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'photos': {'count': 0, 'groups': []}}},
```

```
{'reasons': {'count': 0,
  'items': [{'reasonName': 'globalInteractionReason',
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    'primary': True,
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      'photos': {'count': 0, 'groups': []}}},
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t Road Central, Central',
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          '香港'],
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```

```
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'photos': {'count': 0, 'groups': []}}},  
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'items': [{'reasonName': 'globalInteractionReason',  
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'suffix': '.png'}},  
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'primary': True,  
'shortName': 'Dim Sum'}],  
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'cc': 'HK',  
'city': '香港',  
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'香港'],  
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'lng': 114.15937951591184},  
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'photos': {'count': 0, 'groups': []},  
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```

```
'summary': 'This spot is popular',
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  'primary': True ,
  'shortName': 'Chinese'}] ,
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  'location': {'address': '5/F, CCB Tower, 3 Connaught Road Central' ,
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  'country': '香港' ,
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```

```
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    'name': 'Park',
    'pluralName': 'Parks',
    'primary': True,
    'shortName': 'Park'}],
    'id': '4f801446e4b0d996595fbc62',
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        'city': 'Tamar',
        'country': '香港',
        'distance': 364,
        'formattedAddress': ['Tim Mei Ave', '香港'],
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            'lng': 114.1655833333333}],
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        'lng': 114.1655833333333,
        'neighborhood': 'Tamar'},
        'name': 'Tamar Park (添馬公園)',
        'photos': {'count': 0, 'groups': []}}},
    {'reasons': {'count': 0,
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        'venue': {'categories': [{icon': {'prefix': 'https://ss3.4sqi.net/i  
mg/categories_v2/food/cupcakes_',
            'suffix': '.png'}},
            'id': '4bf58dd8d48988d1bc941735',
            'name': 'Cupcake Shop',
            'pluralName': 'Cupcake Shops',
            'primary': True,
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'pluralName': 'French Restaurants',
'primary': True,
'shortName': 'French'}],
'id': '546ebbcc498ef31e59af1a31',
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'cc': 'HK',
'city': '香港',
'country': '香港',
'distance': 633,
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```

```
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    'primary': True,  
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'country': '香港',  
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```

```
'summary': 'This spot is popular',
  'type': 'general'}]}},
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  'state': '灣仔區'},
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  'items': [{reasonName: 'globalInteractionReason',
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  'name': 'Italian Restaurant',
  'pluralName': 'Italian Restaurants',
  'primary': True,
  'shortName': 'Italian'}]},
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```

```

'venue': {'categories': [{}{'icon': {'prefix': 'https://ss3.4sqi.net/i
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'primary': True,
'shortName': 'Ice Cream'}],
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'香港'],
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'state': '中西區'},
'name': 'Tsujiri (辻利茶舖)',
'photos': {'count': 0, 'groups': []}}},
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'name': 'Bar',
'pluralName': 'Bars',
'primary': True,
'shortName': 'Bar'}],
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'photos': {'count': 0, 'groups': []}}},
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```
mg/categories_v2/nightlife/cocktails_',
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    'photos': {'count': 0, 'groups': []}},
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'venue': {'categories': [{icon: {'prefix': 'https://ss3.4sqi.net/i
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    'name': 'Art Gallery',
    'pluralName': 'Art Galleries',
    'primary': True,
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    'country': '香港',
    'distance': 646,
    'formattedAddress': ['7/F, Pedder Bldg, 12 Pedder St', '中西區',
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    'name': 'Szechuan Restaurant',
    'pluralName': 'Szechuan Restaurants',
```

```
'primary': True,
'shortName': 'Szechuan'}],
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'lng': 114.15643747019334}],
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{lng': 114.15643747019334},
'name': 'San Xi Lou (三希樓)',
'photos': {'count': 0, 'groups': []}},
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'venue': {'categories': [{"icon": {"prefix": "https://ss3.4sqi.net/i
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'suffix': '.png'},
'id': '4bf58dd8d48988d10c941735',
'name': 'French Restaurant',
'pluralName': 'French Restaurants',
'primary': True,
'shortName': 'French'}],
'id': '4b1947f3f964a5206dda23e3',
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Rd C',
'cc': 'HK',
'city': 'Hong Kong',
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'distance': 550,
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'Hong Kong Island',
'香港'],
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'lng': 114.15814044318988}],
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{lng': 114.15814044318988,
'state': 'Hong Kong Island'},
'name': "L'Atelier de Joël Robuchon",
'photos': {"count": 0, 'groups': []}},
{'reasons': {"count": 0,
'items': [{"reasonName": 'globalInteractionReason',
'summary': 'This spot is popular',
'type': 'general'}]}},
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'venue': {"categories": [{"icon": {"prefix": "https://ss3.4sqi.net/i
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'suffix': '.png'},
'id': '4bf58dd8d48988d1fa931735',
'name': 'Hotel',
'pluralName': 'Hotels',
'primary': True,
'shortName': 'Hotel'}]}]
```

```
'id': '4b0588ccf964a52081da22e3',
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  'city': '中環',
  'country': '香港',
  'distance': 523,
  'formattedAddress': ['15 Queen's Road Central, Central', '中西區', '香港'],
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    lng: 114.157905}],
  'lat': 22.28055,
  'lng': 114.157905,
  'state': '中西區'},
  'name': 'The Landmark Mandarin Oriental, Hong Kong (The Landmark Ma
ndarin Oriental, Hong Kong 置地文華東方酒店)',
  'photos': {'count': 0, 'groups': []}},
  {'reasons': {'count': 0,
    'items': [{reasonName: 'globalInteractionReason',
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    'referralId': 'e-0-4b7fa3edf964a520d33730e3-98',
    'venue': {'categories': [{icon: {'prefix': 'https://ss3.4sqi.net/i
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      suffix: '.png'}},
      'id': '52f2ab2ebcbc57f1066b8b3c',
      'name': 'Massage Studio',
      'pluralName': 'Massage Studios',
      'primary': True,
      'shortName': 'Massage Studio'}],
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t',
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        'city': '中環',
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        'distance': 737,
        'formattedAddress': ['17/F, Silver Fortune Plaza, 1 Wellington S
t',
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          '香港']},
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        'lng': 114.15587219013315,
        'state': '中西區'},
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        'photos': {'count': 0, 'groups': []}},
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            'venue': {'categories': [{icon: {'prefix': 'https://ss3.4sqi.net/i
mg/categories_v2/nightlife/secretbar_',
              suffix: '.png'}},
                'id': '4bf58dd8d48988d1d4941735',
                'name': 'Speakeasy',
                'pluralName': 'Speakeasies',
                'primary': True,
```

```

'shortName': 'Speakeasy'}],  

'id': '56a3705c498e9d402f372c1d',  

'location': {'address': 'MO bar',  

'cc': 'HK',  

'city': '香港',  

'country': '香港',  

'distance': 571,  

'formattedAddress': ['MO bar', '香港'],  

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'lng': 114.15747859242497}],  

'lat': 22.28073016086783,  

{lng': 114.15747859242497},  

'name': "PDT (Please Don't Tell)",  

'photos': {'count': 0, 'groups': []}}],  

'name': 'recommended',  

'type': 'Recommended Places']},  

'headerFullLocation': 'Central and Western District, Hong Kong',  

'headerLocation': 'Central and Western District',  

'headerLocationGranularity': 'neighborhood',  

'suggestedBounds': {'ne': {'lat': 22.28832780900001,  

'lng': 114.17252103569837},  

'sw': {'lat': 22.270327790999993, 'lng': 114.15310516430162}},  

'suggestedFilters': {'filters': [{key': 'openNow', 'name': 'Open no  

w'}]},  

'header': 'Tap to show:',  

'totalResults': 233}

```

As shown above, we can obtain useful information such as the venue, categories, id, name, city, country, formattedAddress, and distance to the target location (longitude and latitude) etc. In our project, we are going to select venues by "categories" for further analysis.

## 2.3 The Open Dataset of "Electric vehicle charging station locations"

The second dataset is the Open Dataset of "Electric vehicle charging station locations". This dataset is owned by CLP POWER HONG KONG LIMITED, which is a major electricity provider in Hong Kong, and made available by the Hong Kong SAR government. As the electricity vehicle charging stations are set up by CLP, CLP knows the most updated locations of the charging stations.

```

url2 = "https://api.data.gov.hk/v1/nearest-clp-electric-vehicle-charging-stations?lat={}&long={}&max=  

{}".format_(https://api.data.gov.hk/v1/nearest-clp-electric-vehicle-charging-stations?lat={}&long={}&max=  

{}").format()  

latitude,  

longitude,  

max_results  

)

```

where

- input "lat" = Latitude of enquiry location (WGS84)
- input "long" = Longitude of enquiry location (WGS84)
- input "max" = Maximum number of results returned (default: all, limit:100)
- output is in JSON format, results is represented in a list in ascending order of distance to the specified location

In [5]:

```
max_results = 2

url2 = "https://api.data.gov.hk/v1/nearest-clp-electric-vehicle-charging-stations?lat={}&long={}&max={}".format(
    latitude,
    longitude,
    max_results
)

results2 = requests.get(url2).json()
results2
```

Out[5]:

```
{'results': [{"address-en': 'Murray Road Multi-storey Car Park, 2 Murray R
oad, Central',
  'address-zh': '中環美利道2號美利道多層停車場',
  'district-l-en': 'Hong Kong Island',
  'district-l-zh': '香港島',
  'district-s-en': 'Central and Western',
  'district-s-zh': '中西區',
  'img': None,
  'lat-long': [22.2803325653076, 114.162727355957],
  'location-en': 'Murray Road Multi-storey Car Park',
  'location-zh': '美利道多層停車場',
  'no': '98',
  'parking-no': None,
  'provider': 'Others',
  'type': 'Standard;SemiQuick'},
 {"address-en': 'Citibank Plaza Carpark B2 & B3 \nCitibank Plaza Lcbc
Tower , 3 Garden Road, Central, HK',
  'address-zh': '香港中環花園道3號花旗銀行廣場工商銀行大廈花旗銀行廣場停車場地
庫二樓及三樓',
  'district-l-en': 'Hong Kong Island',
  'district-l-zh': '香港島',
  'district-s-en': 'Central and Western',
  'district-s-zh': '中西區',
  'img': '/EV/PublishingImages/common/map/map_thumb/Citibank%20Plaza.jp
g',
  'lat-long': [22.2788238525391, 114.160987854004],
  'location-en': 'Citibank Plaza',
  'location-zh': '花旗銀行廣場',
  'no': '36',
  'parking-no': None,
  'provider': 'Others',
  'type': 'Standard'}]}
```

### 3. Methodology

We aim to help ABC Company to determine (1) the kind of restaurant to be opened, and (2) the best location for the restaurant. According to their requirements:

1. Japanese style restaurant or steak house is preferred as they have prior experience;
2. To bring something new to the community, i.e. different type of Japanese restaurant;
3. Near to a sufficient supplt of electric EV charging locations.

In Hong Kong, residential districts are built near to the MTR stations. MTR stands for the Mass Transit Railway that equivalent to subway/underground train systems in other countries. So it will be wise to open a restaurant near to a MTR station. There are five MTR stations in the Tseung Kwan O district: Tiu Keng Leng, Tseung Kwan O, Hang Hau, Po Lam, and Lohas Park, and each of them is connected to a huge shopping arcade.

So our methodology will be

1. Determine the nearby facilities of each MTR station

Get the locations of the MTR stations, and then determine the nearby Japanese restaurants and steak houses of each station from Foursquare Place API, and the electric EV charging locations from the Hong Kong CLP API.

2. We suggest that the MTR station that satisfied the above requirements is the best location for opening a restaurant. Our method is to determine which MTR station in Tseung Kwan O district is the best location

## 4. Analysis

In this section, we analyze the data according to the method that had been mentioned in Section 3. Using the Python coding we access to the APIs of the datasets and obtain the information we want. We will show the details in the following subsections.

### 4.1 Determine the nearby facilities of each MTR station

Firstly, we determine the locations of the MTR stations in Tseung Kwan O district, and shows on the map.

In [6]:

```
# create map of Hong Kong Tseung Kwan O using Latitude and Longitude values
#Location of TKO city center
address = 'Hong Kong TKO'
geolocator = Nominatim(user_agent="tt_explorer")
location = geolocator.geocode(address)
latitude_TKO = location.latitude
longitude_TKO = location.longitude

map_hk_TKO = folium.Map(location=[latitude_TKO, longitude_TKO], zoom_start=14)

#Location of Tiu Keng Leng Station
address = 'Hong Kong Tiu Keng Leng Metro'
geolocator = Nominatim(user_agent="tt_explorer")
location = geolocator.geocode(address)
latitude_TKL_MTR = location.latitude
longitude_TKL_MTR = location.longitude

label = '{}, {}'.format(address, 'MTR station')
label = folium.Popup(label, parse_html=True)
folium.CircleMarker(
    [latitude_TKL_MTR, longitude_TKL_MTR],
    radius=5,
    popup=label,
    color='blue',
    fill=True,
    fill_color='#3186cc',
    fill_opacity=0.7,
    parse_html=False).add_to(map_hk_TKO)
```

Out[6]:

&lt;folium.features.CircleMarker at 0x7f6fcbab4b00&gt;

In [7]:

```
#Location of Tseung Kwan O station
address = 'Hong Kong TKO'
geolocator = Nominatim(user_agent="tt_explorer")
location = geolocator.geocode(address)
latitude_TKO_MTR = location.latitude
longitude_TKO_MTR = location.longitude

label = '{}, {}'.format(address, 'MTR station')
label = folium.Popup(label, parse_html=True)
folium.CircleMarker(
    [latitude_TKO_MTR, longitude_TKO_MTR],
    radius=5,
    popup=label,
    color='blue',
    fill=True,
    fill_color='#3186cc',
    fill_opacity=0.7,
    parse_html=False).add_to(map_hk_TKO)
```

Out[7]:

&lt;folium.features.CircleMarker at 0x7f6fcbab4d30&gt;

In [8]:

```
#Location of Hang Hau station
address = 'Hong Kong Hang Hau Station'
geolocator = Nominatim(user_agent="tt_explorer")
location = geolocator.geocode(address)
latitude_HH_MTR = location.latitude
longitude_HH_MTR = location.longitude

label = '{}, {}'.format(address, 'MTR station')
label = folium.Popup(label, parse_html=True)
folium.CircleMarker(
    [latitude_HH_MTR, longitude_HH_MTR],
    radius=5,
    popup=label,
    color='blue',
    fill=True,
    fill_color="#3186cc",
    fill_opacity=0.7,
    parse_html=False).add_to(map_hk_TKO)
```

Out[8]:

```
<folium.features.CircleMarker at 0x7f6fcba9bcf8>
```

In [9]:

```
#Location of Po Lam station
address = 'Hong Kong Po Lam Metro'
geolocator = Nominatim(user_agent="tt_explorer")
location = geolocator.geocode(address)
latitude_PL_MTR = location.latitude
longitude_PL_MTR = location.longitude

label = '{}, {}'.format(address, 'MTR station')
label = folium.Popup(label, parse_html=True)
folium.CircleMarker(
    [latitude_PL_MTR, longitude_PL_MTR],
    radius=5,
    popup=label,
    color='blue',
    fill=True,
    fill_color="#3186cc",
    fill_opacity=0.7,
    parse_html=False).add_to(map_hk_TKO)
```

Out[9]:

```
<folium.features.CircleMarker at 0x7f6fcba9bdd8>
```

In [10]:

```
#Location of Lohas Park station
address = 'Hong Kong Lohas Park'
geolocator = Nominatim(user_agent="tt_explorer")
location = geolocator.geocode(address)
latitude_LP_MTR = location.latitude
longitude_LP_MTR = location.longitude

label = '{}, {}'.format(address, 'MTR station')
label = folium.Popup(label, parse_html=True)
folium.CircleMarker(
    [latitude_LP_MTR, longitude_LP_MTR],
    radius=5,
    popup=label,
    color='blue',
    fill=True,
    fill_color='#3186cc',
    fill_opacity=0.7,
    parse_html=False).add_to(map_hk_TKO)
```

Out[10]:

```
<folium.features.CircleMarker at 0x7f6fcba9bef0>
```

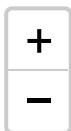
The map is shown as below.

In [11]:

```
# create map of Hong Kong using Latitude and Longitude values
#map_hk_TKO = folium.Map(location=[latitude_TKO, longitude_TKO], zoom_start=17)

# show the map of Hong Kong
map_hk_TKO
```

Out[11]:



Leaflet (<http://leafletjs.com>)

Secondly, we are going to

In [12]:

```
# @hidden_cell
CLIENT_ID = 'ME1HB2KTTFR33QWG4VKMU5ES1WJGYLECXQNYJTY2UTEJ0NPR' #'your-client-ID' # your
# Foursquare ID
CLIENT_SECRET = 'RZDZCBOHS0VF30F1DD3AMS2EV0KYXSXDT3SQYJABQHTNNMVW' #'your-client-secre
t' # your Foursquare Secret
VERSION = '20180605' # Foursquare API version
```

In [13]:

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

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

In [14]:

```
def filter_RestType(nearby_venues, type):

    clist = nearby_venues['categories']
    nplist = np.array(nearby_venues)
    idx = []

    if type=='J':
        idx = [i for i, e in enumerate(clist) if "Japanese Restaurant" in e or "Donbur
i" in e or "Sushi" in e]
    else:
        idx = [i for i, e in enumerate(clist) if "Steak" in e or "Café" in e]

    hdr = list(nearby_venues)
    df = pd.DataFrame(nplist[idx].tolist(), columns=hdr)

    return df
```

In [15]:

```
# function that extracts the Restaurants
# if type='J', returns Japanese Restaurant
# if type='S', returns Steak House

def get_Rest(latitude,longitude,type):

    LIMIT = 100 # Limit of number of venues returned by Foursquare API
    radius = 1000 # define radius
    url = 'https://api.foursquare.com/v2/venues/explore?&client_id={}&client_secret={}&v={}&ll={},{}&radius={}&limit={}'.format(
        CLIENT_ID,
        CLIENT_SECRET,
        VERSION,
        latitude,
        longitude,
        radius,
        LIMIT)
    #url # display URL

    results = requests.get(url).json()

    venues = results['response']['groups'][0]['items']

    nearby_venues = json_normalize(venues) # flatten JSON

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

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

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

    #nearby_venues.head()
    return filter_RestType(nearby_venues,type)

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

List of all Japanese restaurants and Steak House are listed below:

In [16]:

```
#List of all Japanese restaurant around Tiu Keng Leng station
df_TKL_Japanese = get_Rest(latitude_TKL_MTR,longitude_TKL_MTR,'J')
df_TKL_Japanese
```

Out[16]:

	<b>name</b>	<b>categories</b>	<b>lat</b>	<b>lng</b>
<b>0</b>	Yoshinoya (吉野家)	Donburi Restaurant	22.304349	114.251466
<b>1</b>	Itacho Sushi (Itacho Sushi 板長寿司)	Sushi Restaurant	22.304593	114.252132

In [17]:

```
#List of all Steak House around Tiu Keng Leng station
df_TKL_Steak = get_Rest(latitude_TKL_MTR,longitude_TKL_MTR,'S')
df_TKL_Steak
```

Out[17]:

	<b>name</b>	<b>categories</b>	<b>lat</b>	<b>lng</b>
<b>0</b>	simplylife Bakery Café	Café	22.307778	114.259293
<b>1</b>	agnès b. CAFÉ L.P.G.	Café	22.307655	114.259864
<b>2</b>	The Chef's Table (尚廚)	Café	22.308325	114.259550

In [18]:

```
#List of all Japanese restaurant around Tseung Kwan O station
df_TKO_Japanese = get_Rest(latitude_TKO_MTR,longitude_TKO_MTR,'J')
df_TKO_Japanese
```

Out[18]:

	<b>name</b>	<b>categories</b>	<b>lat</b>	<b>lng</b>
<b>0</b>	Itacho Sushi (Itacho Sushi 板長寿司)	Sushi Restaurant	22.304593	114.252132
<b>1</b>	Yoshinoya (吉野家)	Donburi Restaurant	22.304349	114.251466

In [19]:

```
#List of all Steak House around Tseung Kwan O station
df_TKO_Steak = get_Rest(latitude_TKO_MTR,longitude_TKO_MTR,'S')
df_TKO_Steak
```

Out[19]:

	<b>name</b>	<b>categories</b>	<b>lat</b>	<b>lng</b>
<b>0</b>	simplylife Bakery Café	Café	22.307778	114.259293
<b>1</b>	agnès b. CAFÉ L.P.G.	Café	22.307655	114.259864
<b>2</b>	The Chef's Table (尚廚)	Café	22.308325	114.259550
<b>3</b>	Balencia	Café	22.309319	114.262979

In [20]:

```
#List of all Japanese restaurant around Hang Hau station
df_HH_Japanese = get_Rest(latitude_HH_MTR,longitude_HH_MTR,'J')
df_HH_Japanese
```

Out[20]:

	<b>name</b>	<b>categories</b>	<b>lat</b>	<b>lng</b>
<b>0</b>	Nichigyu Shabu Shabu & Suikiyaki 日牛涮 涮鍋專門店	Japanese Restaurant	22.317033	114.265757
<b>1</b>	Genki Sushi 元氣壽司	Sushi Restaurant	22.317158	114.265673

In [21]:

```
#List of all Steak House around Hang Hau station
df_HH_Steak = get_Rest(latitude_HH_MTR,longitude_HH_MTR,'S')
df_HH_Steak
```

Out[21]:

	<b>name</b>	<b>categories</b>	<b>lat</b>	<b>lng</b>
<b>0</b>	Lardos Steak House	Steakhouse	22.320537	114.266500
<b>1</b>	agnès b. CAFÉ L.P.G.	Café	22.307655	114.259864
<b>2</b>	XOXO Café Lab	Café	22.317442	114.266000
<b>3</b>	Balencia	Café	22.309319	114.262979
<b>4</b>	The Chef's Table (尚廚)	Café	22.308325	114.259550

In [22]:

```
#List of all Japanese restaurant around Po Lam station
df_PL_Japanese = get_Rest(latitude_PL_MTR,longitude_PL_MTR,'J')
df_PL_Japanese
```

Out[22]:

	name	categories	lat	lng
0	Mazter Japanese Restaurant 瀧匠	Japanese Restaurant	22.316512	114.263738

In [23]:

```
#List of all Steak House around Po Lam station
df_PL_Steak = get_Rest(latitude_PL_MTR,longitude_PL_MTR,'S')
df_PL_Steak
```

Out[23]:

	name	categories	lat	lng
0	Lardos Steak House	Steakhouse	22.320537	114.266500
1	Cafe OK (OK德海南雞飯專門店)	Café	22.322721	114.257332

In [24]:

```
#List of all Japanese restaurant around Lohas Park station
df_LP_Japanese = get_Rest(latitude_LP_MTR,longitude_LP_MTR,'J')
df_LP_Japanese
```

Out[24]:

	name	categories	lat	lng

In [25]:

```
#List of all Steak House around Lohas Park station
df_LP_Steak = get_Rest(latitude_LP_MTR,longitude_LP_MTR,'S')
df_LP_Steak
```

Out[25]:

	name	categories	lat	lng

In [26]:

```
# function that add a marker of venue on the map
# color and fill color are to be customized

def pin_Venue(df, color, fill_color):
    for name, cat, lat, lng in zip(df['name'], df['categories'], df['lat'], df['lng']):
        label = '{}, {}'.format(name, cat)
        label = folium.Popup(label, parse_html=True)
        folium.CircleMarker(
            [lat, lng],
            radius=5,
            popup=label,
            color=color,
            fill=True,
            fill_color=fill_color,
            fill_opacity=0.7,
            parse_html=False).add_to(map_hk_TKO)
```

We then pin the markers for the Japanese restaurants and Steak House in red and green colors respectively:

In [36]:

```
#Pin venus on top of the map with MTR stations Labelled
#Legend
# Blue: MTR stations
# Red: Japanese restaurants
# Green: Steak Houses
#
#Note: each pin represents ONE single restaurant

#Pin venues around Tiu Keng Leng station
pin_Venue(df_TKL_Japanese, 'red', 'red')
pin_Venue(df_TKL_Steak, 'green', 'green')

#Pin venues around Tseung Kwan O station
pin_Venue(df_TKO_Japanese, 'red', 'red')
pin_Venue(df_TKO_Steak, 'green', 'green')

#Pin venues around Hang Hau station
pin_Venue(df_HH_Japanese, 'red', 'red')
pin_Venue(df_HH_Steak, 'green', 'green')

#Pin venues around Po Lam station
pin_Venue(df_PL_Japanese, 'red', 'red')
pin_Venue(df_PL_Steak, 'green', 'green')

#Pin venues around Lohas Park station
pin_Venue(df_LP_Japanese, 'red', 'red')
pin_Venue(df_LP_Steak, 'green', 'green')
```

## 4.1 Determine the electric EV charging locations around each MTR station

And then, we pin the EV charging locations around each station. We assume that each location has less than 20 charging point as it is not so popular in Hong Kong.

In [32]:

```
# function that add a marker of EV charging Location on the map
# it will be colored in purple

def pin_EV_charging(latitude,longitude):

    max_results = 20000 #default: we assume each Location has less than 20 charging point as it is not so popular in Hong Kong

    url2 = "https://api.data.gov.hk/v1/nearest-clp-electric-vehicle-charging-stations?lat={}&long={}&max={}".format(
        latitude,
        longitude,
        max_results
    )

    results2 = requests.get(url2).json()
    venues2 = results2['results']
    df2 = json_normalize(venues2) # flatten JSON
    df2 = df2[['lat','long']]

    for lat, lng in zip(df2[0], df2[1]):
        color='cyan'
        fill_color='cyan'
        label = '{}, {}'.format('EV', 'charging station')
        label = folium.Popup(label, parse_html=True)
        folium.CircleMarker(
            [lat, lng],
            radius=5,
            popup=label,
            color=color,
            fill=True,
            fill_color=fill_color,
            fill_opacity=0.1,
            parse_html=False).add_to(map_hk_TKO)
```

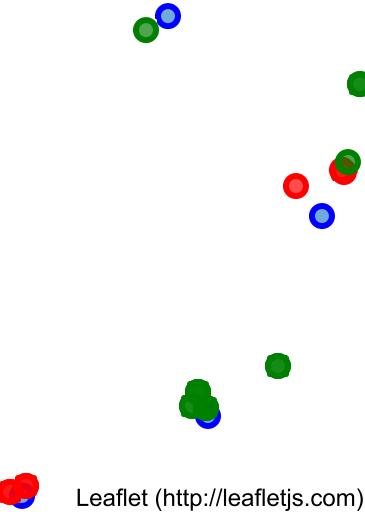
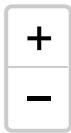
In [33]:

```
#pin_EV_charging(latitude_TKL_MTR, longitude_TKL_MTR)
#
#pin_EV_charging(latitude_TKO_MTR, longitude_TKO_MTR)
#
#pin_EV_charging(latitude_HH_MTR, longitude_HH_MTR)
#
#pin_EV_charging(latitude_PL_MTR, longitude_PL_MTR)
#
#pin_EV_charging(latitude_LP_MTR, longitude_LP_MTR)
```

In [34]:

```
#Show the map with pinned markers
map_hk_TKO
```

Out[34]:



From the above marker pinning, it seems there are only one charging location around each station, and located exactly at the station. We make use of this information to determine the number of charging locations around each station.

In [58]:

```
# this function returns the number of charging Locations at each station

def get_Num_charging(latitude,longitude):
    max_results = 1 #default: we assume each Location has Less than 20 charging point as it is not so popular in Hong Kong

    url2 = "https://api.data.gov.hk/v1/nearest-clp-electric-vehicle-charging-stations?lat={}&long={}&max={}".format(
        latitude,
        longitude,
        max_results
    )

    results2 = requests.get(url2).json()
    venues2 = results2['results']
    df2 = json_normalize(venues2) # flatten JSON
    return df2['no']
```

The number of charging locations are obtained as below:

In [113]:

```
num_charging_TKL = get_Num_charging(latitude_TKL_MTR,longitude_TKL_MTR)
num_charging_TKL = int(num_charging_TKL[0])
num_charging_TKL
```

Out[113]:

149

In [112]:

```
num_charging_TKO = get_Num_charging(latitude_TKO_MTR,longitude_TKO_MTR)
num_charging_TKO = int(num_charging_TKO[0])
num_charging_TKO
```

Out[112]:

229

In [111]:

```
num_charging_HH = get_Num_charging(latitude_HH_MTR,longitude_HH_MTR)
num_charging_HH = int(num_charging_HH[0])
num_charging_HH
```

Out[111]:

150

In [110]:

```
num_charging_PL = get_Num_charging(latitude_PL_MTR,longitude_PL_MTR)
num_charging_PL = int(num_charging_PL[0])
num_charging_PL
```

Out[110]:

106

In [114]:

```
num_charging_LP = get_Num_charging(latitude_LP_MTR,longitude_LP_MTR)
num_charging_LP = int(num_charging_LP[0])
num_charging_LP
```

Out[114]:

5

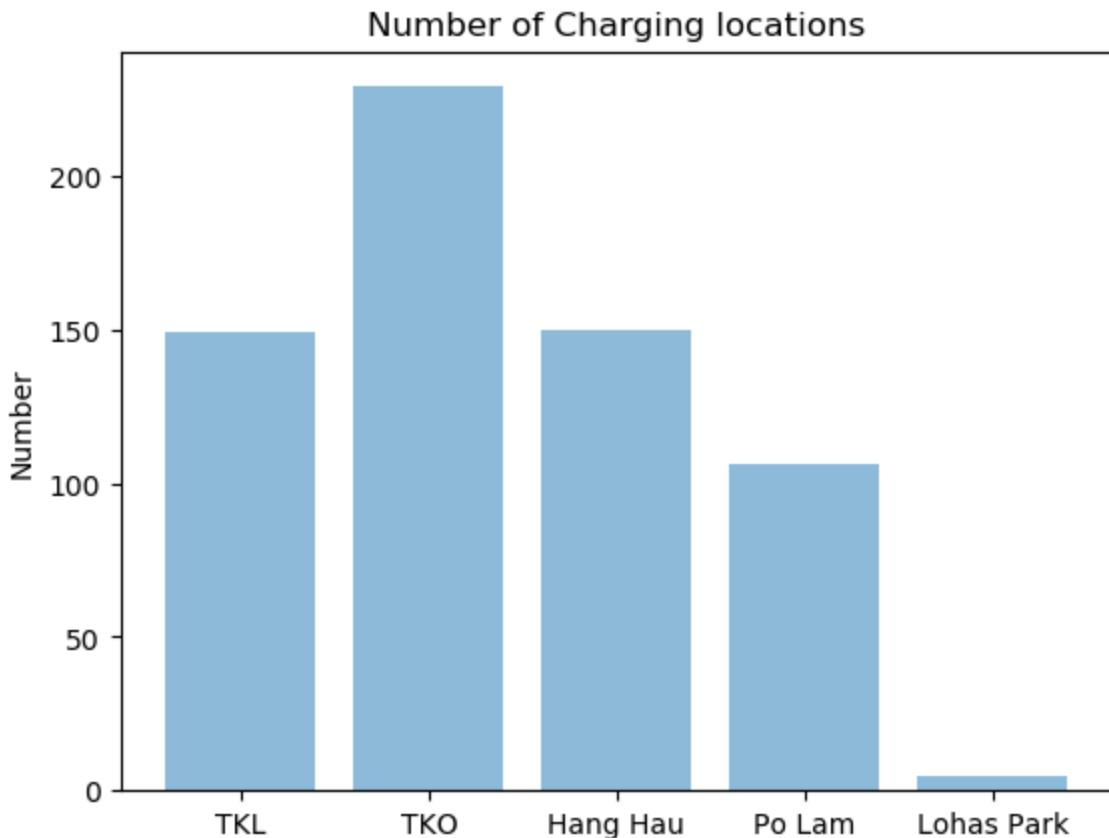
## 5. Results and Discussion

In this section, we will look into the data and generate insights from graphs and numbers.

The number of charging locations around each MTR station is shown below. The TKO station has the largest number of charging locations for our customers.

In [123]:

```
import matplotlib.pyplot as plt; plt.rcParams()  
import numpy as np  
import matplotlib.pyplot as plt  
  
objects = ('TKL', 'TKO', 'Hang Hau', 'Po Lam', 'Lohas Park')  
y_pos = np.arange(len(objects))  
performance = [num_charging_TKL, num_charging_TKO, num_charging_HH, num_charging_PL, nu  
m_charging_LP]  
  
plt.bar(y_pos, performance, align='center', alpha=0.5)  
plt.xticks(y_pos, objects)  
df_HH_Steak.sizeplt.ylabel('Number')  
plt.title('Number of Charging locations')  
  
plt.show()
```



We then take a look on the number of restaurant of each type. In this analysis, we will count the number of Japanese restaurants and Steak Houses.

In [136]:

```
sdata = (df_TKL_Steak.size, df_TKO_Steak.size, df_HH_Steak.size, df_PL_Steak.size, df_L  
P_Steak.size)  
  
jdata = (df_TKL_Japanese.size, df_TKO_Japanese.size, df_HH_Japanese.size, df_PL_Japanes  
e.size, df_LP_Japanese.size)
```

In [137]:

```
print('As an overview, there are ',sum(sdata), 'Steak Houses and ', sum(jdata), ' Japanese restaurants in Tseung Kwan O district.')
```

As an overview, there are 56 Steak Houses and 28 Japanese restaurants in Tseung Kwan O district.

In [138]:

```
import numpy as np
import matplotlib.pyplot as plt
from matplotlib.ticker import MaxNLocator
from collections import namedtuple

n_groups = 5

fig, ax = plt.subplots()

index = np.arange(n_groups)
bar_width = 0.35

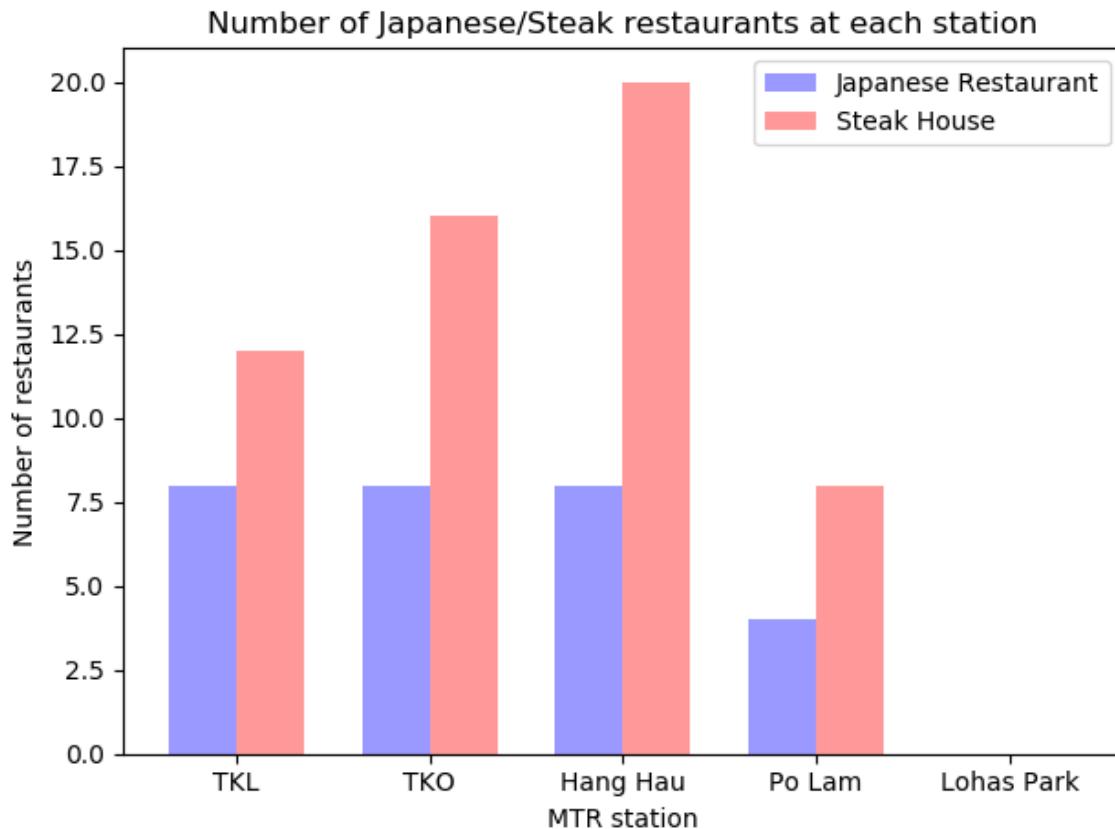
opacity = 0.4
error_config = {'ecolor': '0.3'}

rects1 = ax.bar(index, jdata, bar_width,
                 alpha=opacity, color='b',
                 label='Japanese Restaurant')

rects2 = ax.bar(index + bar_width, sdata, bar_width,
                 alpha=opacity, color='r',
                 label='Steak House')

ax.set_xlabel('MTR station')
ax.set_ylabel('Number of restaurants')
ax.set_title('Number of Japanese/Steak restaurants at each station')
ax.set_xticks(index + bar_width / 2)
ax.set_xticklabels(('TKL', 'TKO', 'Hang Hau', 'Po Lam', 'Lohas Park'))
ax.legend()

fig.tight_layout()
plt.show()
```



There are some facts we obtained:

1. In this district, the number of steak house is 58 that is almost the double of the number of Japanese restaurants (=26).
2. The Hang Hau station has more restaurants nearby, and mostly steak house.
3. In Lohas Park, there are no restaurants up to this moment. This fact has been reported in Hong Kong newspaper 'The Standard' (refer to Reference [3]). It is because Lohas Park is a relative remote district and the only shopping center near to the station is still under construction.
4. Moreover, the Lohas Park has the minimum number of electric EV charging locations.
5. TKO station has most electric EV charging locations around (=229), which is far more than other stations in Tseung Kwan O district.
6. There are many Sushi (=3) and Donburi restaurants (=2) but only 1 sha-bu-sha-bu restaurant at Po Lam station where is far away from the TKO city center.

## 6. Conclusion

To conclude, we suggest the client (ABC company) to set up a restaurant at Tseung Kwan O station. A Japanese style restaurant is preferred because there are already plenty of western style restaurants around so the competition would be keen if we open a steak house. We suggest the client to open a Japanese style hotpot (Sha-bu-Sha-bu) restaurant because the neighbouring stations (i.e. Tiu Keng Leng and Hang Hau) do not have this kind of restaurant. Although Po Lam has one Sha-bu-Sha-bu restaurant but it is far away from Tseung Kwan O station.

## 7. Reference

1. Foursquare Labs Inc. (2019). Place API, URL: <https://foursquare.com> (<https://foursquare.com>)
2. DATA.GOV.HK . The Standard.(2019). Electric vehicle charging station locations, URL: <https://data.gov.hk/en-data/dataset/clp-team1-electric-vehicle-charging-location> (<https://data.gov.hk/en-data/dataset/clp-team1-electric-vehicle-charging-location>)
3. Tereza Cai (12 Apr 2019). Lohas Park to get mall next year, Business, The Standard, URL: <http://www.thestandard.com.hk/section-news.php?id=206840&sid=2> (<http://www.thestandard.com.hk/section-news.php?id=206840&sid=2>)