Tokyo Neighborhoods

Imagine you are living in Tokyo, and you gathered up some money. Now, you are trying to invest that money on restaurant business. In a big city like Tokyo, where there are plenty of restaurants of any kind, what kind of restaurant should you open? A Steakhouse? Or a pizzaplace? Maybe just a coffee shop? And where?

Data Preparation

First of all, we import all the libraries that are needed, do web scrapping and get data of Wards of Tokyo from Wikipedia, convert it to dataframe which looks like this:
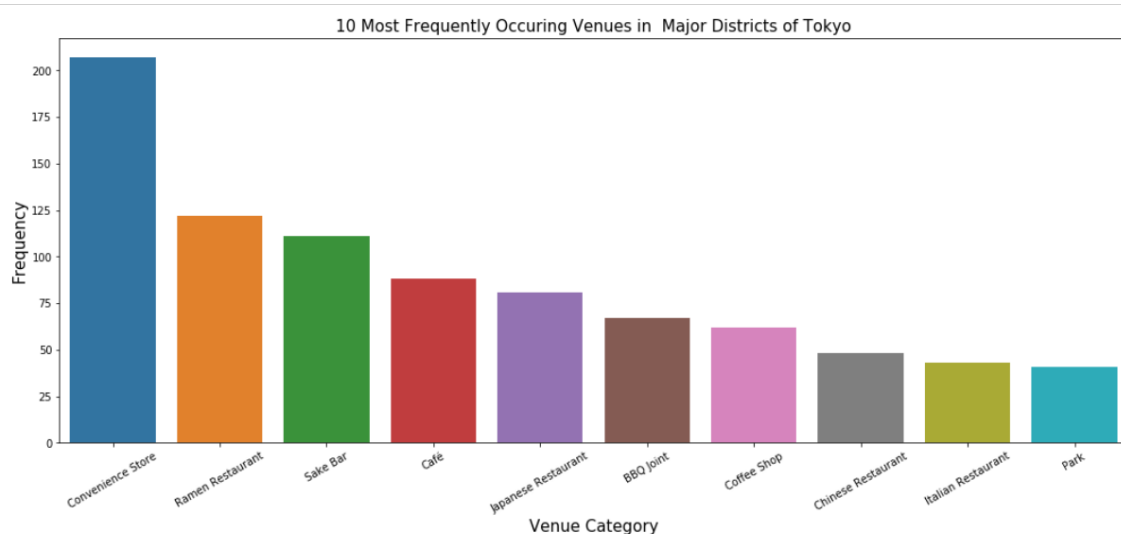
	Ward	Area_SqKm	Population	Major_District	Dist_Latitude	Dist_Longitude
1	Chiyoda	5100	59441	Nagatacho	35.675618	139.743469
2	Chuo	14460	147620	Nihonbashi	35.684058	139.774501
3	Minato	12180	248071	Odaiba	35.619128	139.779403

Later on we will find the coordinates of Tokyo and map it. Then in order to use Foursquare API we pass our CLIENT ID and CLIENT SECRET.

With the help of Foursquare API we get all the venues in major districts and later separate only restaurants from all the venues:

	District	Dist_Latitude	Dist_Longitude	Venue	Venue_Lat	Venue_Long	Venue_Category
1	Nagatacho	35.675618	139.743469	Nagatacho Kurosawa (永田町 黒澤)	35.674699	139.741737	Japanese Restaurant
2	Nagatacho	35.675618	139.743469	Shinamen Hashigo (支那麺 はしご)	35.672184	139.741576	Ramen Restaurant
3	Nagatacho	35.675618	139.743469	Star Hill (星ヶ岡)	35.673953	139.740998	Chinese Restaurant

Now what are the most popular restaurants? To get that information we use value_counts method. After getting the data we convert it to dataframe and plot out bar chart with the help of seaborn:

Results:

Here we can easily see that the most popular restaurant type is Ramen Restaurant. Which means you would be better off if you open Ramen Restaurant as apparently people really enjoy Ramen as we can see from its popularity.

Discussion:

Apart from Ramen, there are other kind of restaurants which are popular, for example BBQ joint, Chinese restaurant or Italian restaurant. Yes, people of Tokyo prefer traditional food, but they also like diversity, food that are from different countries, like Italy. I mean who doesn't like Pizza?

Conclusion:

In conclusion, there are a lot of restaurants in a big metropolitan city like Tokyo, with the most popular one Ramen restaurant, but there are also different kinds that as popular, which are good to consider if you want to invest in restaurant business.