

# Welcome to Taiwan! Welcome to visit Kaohsiung :D

## Introduction:

I live in Taiwan, Kaohsiung City.

Small eats are the big things in Taiwan. Bubble tea, Braised pork rice, Stinky tofu, etc..

In Taiwan, we can find all of them in a special place, **night market**, a big food court out of door and only open at night.

Not only delicious food but also fun games are provided in night market.

There are many night market in Kaohsiung. How can we visit most of them in 3 nights.

If you are interested in eating delicious food in night market, keep watching:D



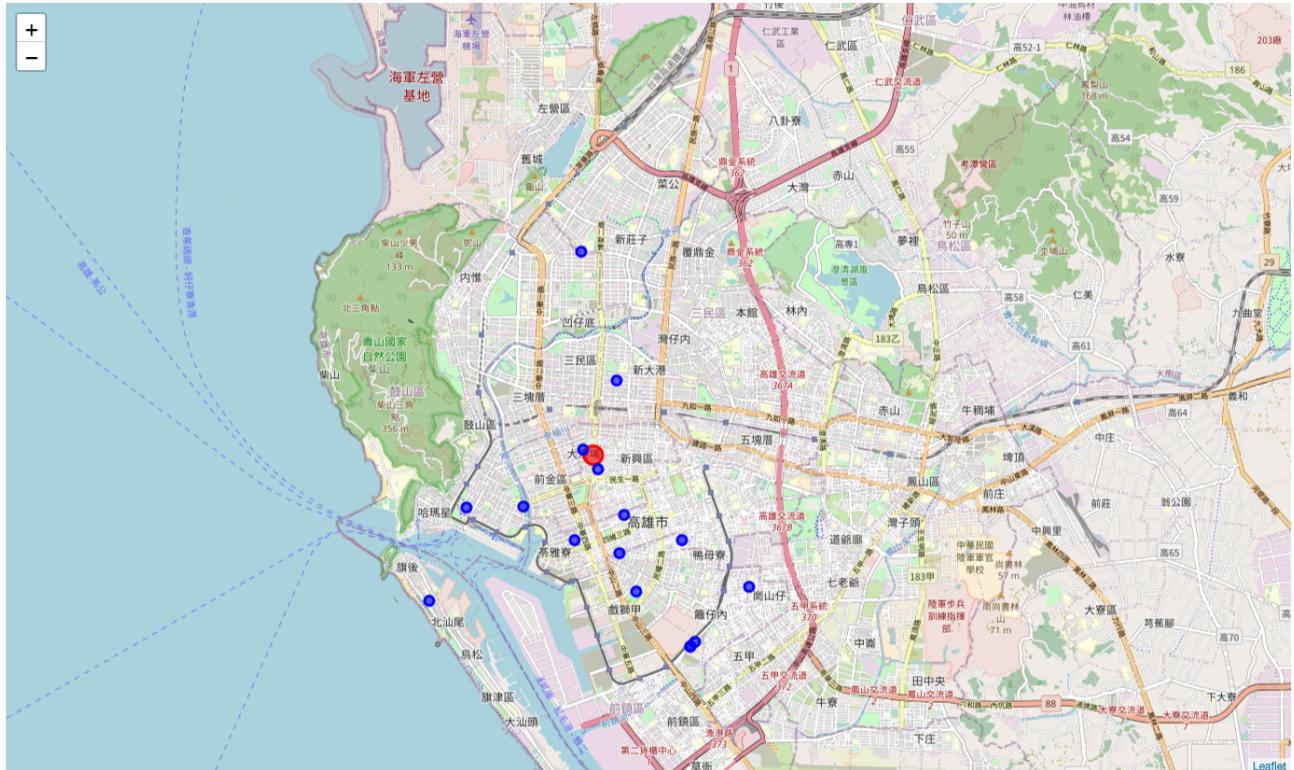
## Data :

Query from foursquare. Searching night markets near by the center of Kaohsiung. Clean the data from JSON to pandas dataframg include columns (name , categories, address, crossStreet, lat, lng, labeledLatLngs,. distance. postalCode, cc, city, country, formattedAddress, neighborhood, id )/

We get 16 rows of night market data.

## Methodology section:

First, visualize the data by lat, lng. We can see 16 night markets as below.

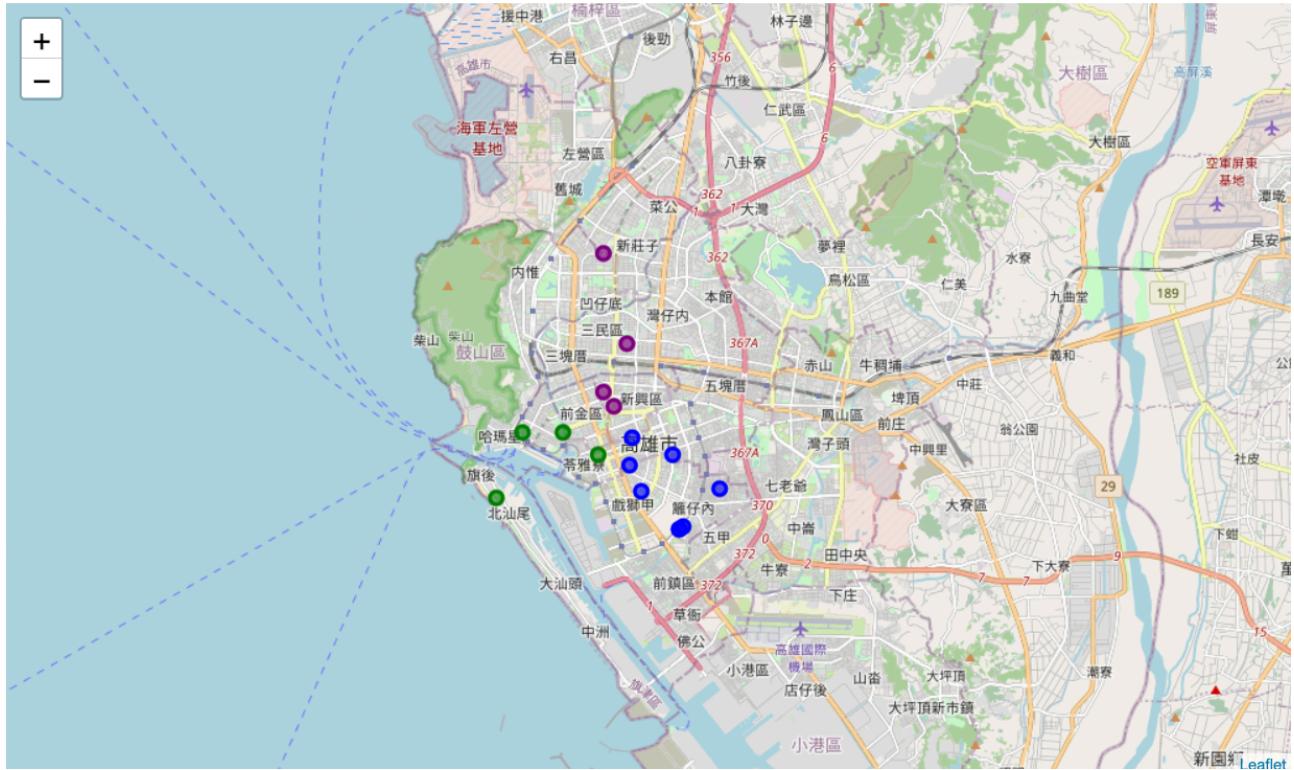


Suppose we can visit many night markets in one night, and stay 3 days in Kaohsiung. I choose 3 days is because of my experience. Taiwan is small. 3 days for traveling one city is enough.

We apply K-means on latitude and longitude with K as 3, and find which night markets are fit to be in the same night.

## Results:

The Visualization of K means result is below.



```
# Day 1 old city day:  
datalist[0]
```

		name	lat	lng
1		忠孝夜市 Zhongsiao Night Market	22.621223	120.307622
2		興中觀光夜市 Sing Jhong Night Market	22.614773	120.306880
4		光華夜市 Guanghua Night Market	22.617095	120.318242
5		金鑽觀光夜市 Jin-Zuan Night Market	22.599798	120.320777
18		凱旋國際觀光夜市	22.599017	120.319863
20		勞工公園夜市	22.608355	120.309942
43		瑞北夜市	22.609068	120.330670
45		Kaixuan Qingnian Night Market (凱旋青年觀光夜市)	22.598960	120.319790

We pick blue group night market for the first day. They are near by airport and a big mall.

These Night markey are near by airport.

Kaixuan Qingnian Night Market are near Kaohsiung Light Rail.

If you need to buy something, you can go to Dream mall. It is the best mall in Taiwan.

```
# Day 2 Love River day:
datalist[1]
```

	name	lat	lng
11	自強夜市	22.617052	120.298500
17	La Rue Market by Love River	22.622690	120.289186
27	旗津國小夜市	22.606761	120.271859
37	Pier-2 Night Market (駁二夜市)	22.622526	120.278661

Love River lies across Kaohsiung, it is a romantic place. High quality hotels and facilities are waiting for you.

If you like seafood, you can go Cijin District by boat.

Intimate reminder for you, Pier-2 night market just open on Saturday. More introduction can be seen on [Kaohsiung Travel](#)

We pick green group night market for the second day. They are near by love river.

```
# Day 3: Downtown day
datalist[2]
```

	name	lat	lng
0	Nanhua Night Market (南華夜市)	22.629036	120.302810
8	Liouhe Night Market (六合夜市)	22.632438	120.300083
10	吉林夜市	22.644094	120.306300
19	Rueifeng Night Market (瑞豐夜市)	22.665931	120.299845

We pick purple group night market for the third day. They are the top 2 night market in Kaohsiung. Taiwan High-Speed Railway are nearby, so you can visit another city in Taiwan conveniently.

## Discussion section:

```
venue_id = '4bfe429af7c82d7fca4e8f04' # ID of Rueifeng Night Market
url = 'https://api.foursquare.com/v2/venues/{}/?client_id={}&client_secret={}&oauth_token={}&v={}'.format(venue_id, client_id, client_secret, oauth_token, v)
result = requests.get(url).json()
result['response']['venue']
# show rating
try:
    print('Rueifeng Night Market rating:', result['response']['venue']['rating'])
except:
    print('This venue has not been rated yet.')
```

Rueifeng Night Market rating: 6.9

As a local. I can say that [Rueifeng Night Market](#) is the first night market we will think of. It is the best end for your three days trip.

Taiwan High-Speed Railway are nearby, you can visit another city in Taiwan conveniently.

Click the above link and view Wiki.

```

venue_id = '4b63112cf964a520bc602ae3' # ID of Liouhe Night Market
url = 'https://api.foursquare.com/v2/venues/{}/client_id={}&client_secret={}&oauth_token={}&v={}'.format(venue_id, CL
url
result = requests.get(url).json()
result['response']['venue']
try:
    print('Liouhe Night Market rating:', result['response']['venue']['rating'])
except:
    print('This venue has not been rated yet.')

```

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`Liouhe Night Market rating: 6.0`

[Liouhe Night Market](#) is a tourist night market in the downtown.

It provides high-quality seafood and small eats. Because of the higher price, people are fewer than Rui Feng. I recommend bald boss fried rice for you, it just cost about 2 USD and delicious.

Click the above link and view Wiki.

I query the rating of these 2 biggest night Markey. 6.9 point for Rueifeng Night Market and 6 point for Liouhe Night Market.

## Conclusion section:

K means help us find the best plan for 3 days travel in Kaohsiung. We can easily see which night market should be planned into the same day. Combine the other facility's location like railway and airport. We can easily decide the travel plan.

This structure can be apply in other country which planed to travel. Just change night market into other country's special location :D