**Capstone Project - The Battle of Neighborhoods - Taichung version**

This project is a part of IBM data science, you will find in this post an overview of my final capstone project.

In this assignment, I will go through the problem description(**Introduction/Business Problem**), data set preparation and final to analysis and overview these data step by step. Detailed code are given in Github and link can be found at the end of the post.

1. **Introduction/Business Problem**
2. **Data Preparation**
   1. 台中wiki

Data source: <https://zh.wikipedia.org/wiki/臺中市#人口>

Description: 此資料包含了台中的29個區,並含有Chinese Name / Area/ Density/ Postal Code

* 1. 台灣各縣市地區經緯度

Data source: <https://www.astrocode.net/%E5%8F%B0%E7%81%A3%E5%90%84%E7%B8%A3%E5%B8%82%E5%9C%B0%E5%8D%80%E7%B6%93%E7%B7%AF%E5%BA%A6/>

Description: 為一個XML file,可以轉成JSON file,此含有全台灣各區域經緯度

* 1. 譯寫系統 Translation

Data source: <http://gn.moi.gov.tw/geonames/Translation/Translation.aspx>  
Description: 123

* 1. **Venues in each neighborhood of Taichung:**

Data source: Foursquare APIs

Description: 123

1. **Visualization and Data Exploration**
2. **Clustering the neighborhoods**
3. **Conclusion and Summary**