

# The BATTLE of NEIGHBORHOOD

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# INTRODUCTION

- The intention on this project is to collect and provide a data driven recommendation that can supplement the recommendation with statistical data. This will also be utilizing data retrieved from Singapore open data sources and FourSquare API venue commendations.
- The sample recommender in this notebook will provide the following use case scenario:
  - 1 A person planning to visit Singapore as a Tourist or an Expat and looking for a reasonable accommodation.
  - 2 The user wants to receive venue recommendation where he can stay or rent an HDB apartment with close proximity to places of interest or search category option.
  - 3 The recommendation should not only present the most viable option, but also present a comparison table of all possible town venues..

## DATA ACQUISITION

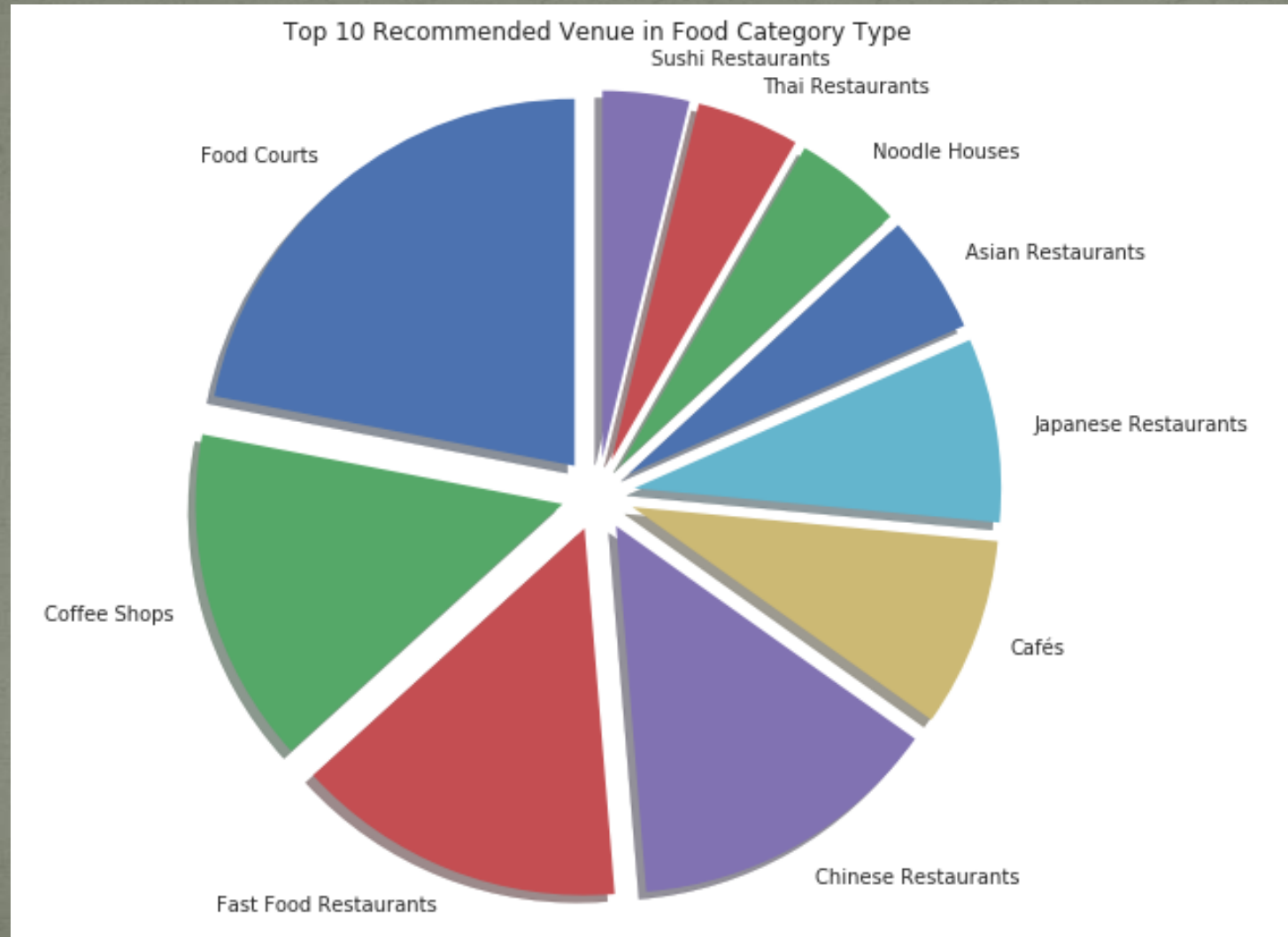
- Data will be retrieved from Singapore open dataset from median rent by town and flat type from <https://data.gov.sg> website. The original data source contains median rental prices of Singapore HDB units from 2005 up to 2nd quarter of 2018. I will retrieve rental the most recent recorded rental prices from this data source (Q2 2018) being the most relevant price available at this time. For this demonstration, I will simplify the analysis by using the average rental prices of all available flat type.



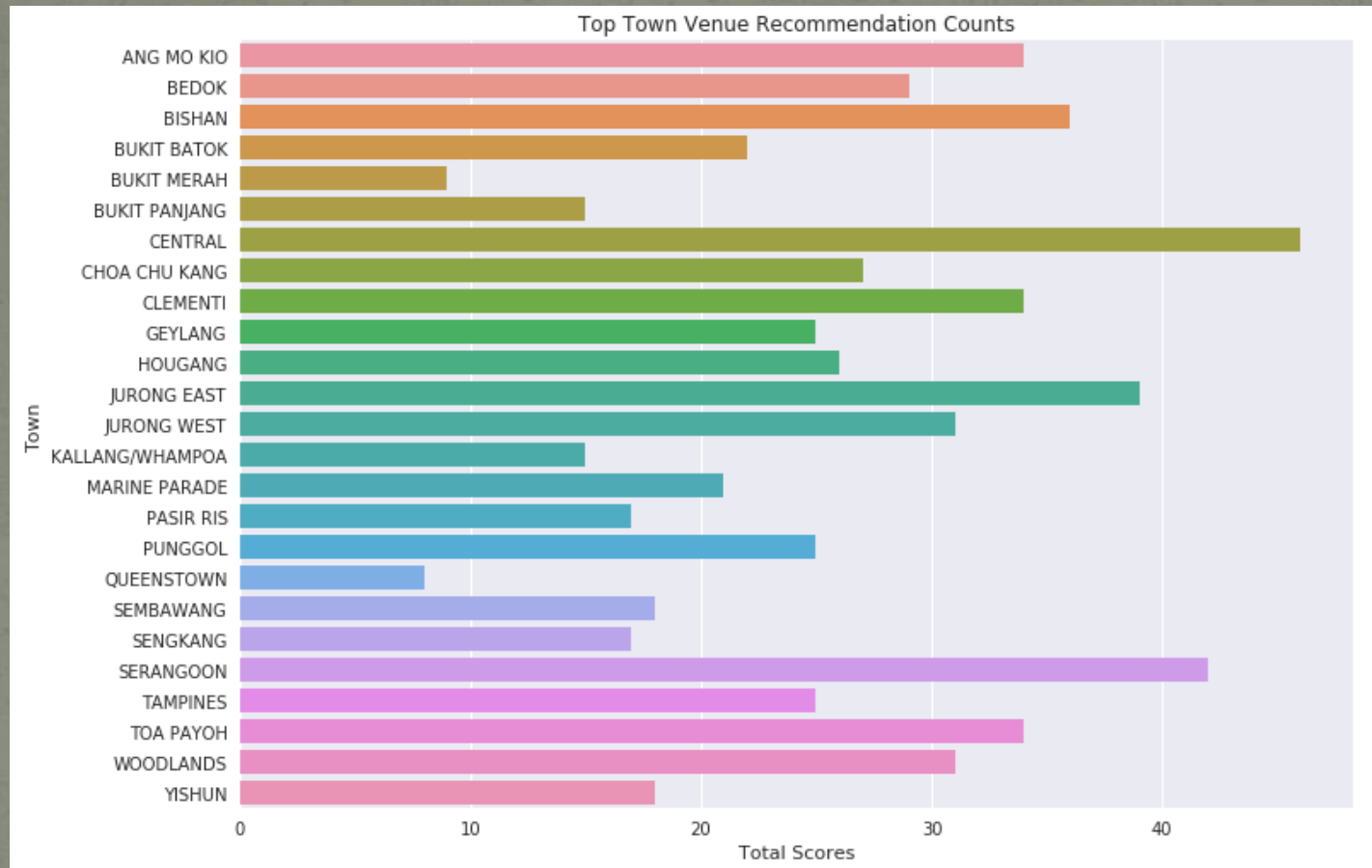
# METHODOLOGY

- The source data contains median rental prices of Singapore HDB units from 2005 up to 2nd quarter of 2018. I will retrieve the most recent recorded rental prices from this data source (Q2 2018) being the most relevant price available at this time. For this demonstration, I will simplify the analysis by using the average rental prices of all available flat type. Data Cleanup and re-grouping. The retrieved table contains some un-wanted entries and needs some cleanup. The following tasks will be performed:
  - I. ☐ Drop/ignore cells with missing data.
  - II. ☐ Use most current data record.

# What are the top 20 most common venue types?

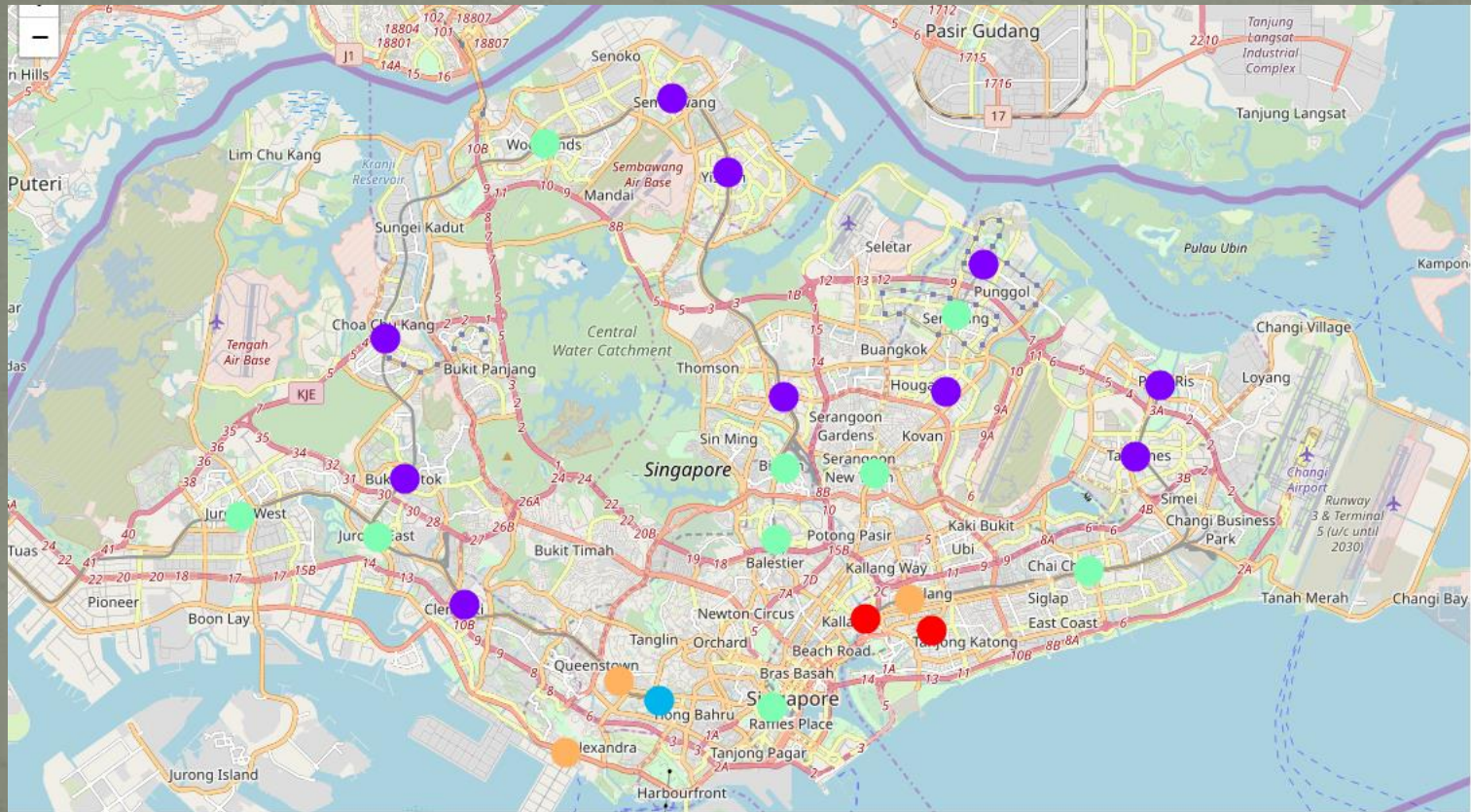


# What are the top 10 Venue Recommendation Scores?





# MAP:



# Conclusion

- On this notebook, Analysis of best town venue recommendations based on Food venue category has been presented. Recommendations based on other user searches like available outdoor and recreation areas are also available. As singapore is a small country with a whole host of interesting venues scattered around the town, the information extracted in this notebook present on the town areas, will be a good supplement to web based recommendations for visitors to find out nearby venues of interest and be a useful aid in deciding a place to stay or where to go during their visits.
- The generated clusters from our results shows that there are very good and interesting places located in areas where the median rents are cheaper. This kind of results may be very interesting for travelers who are also on budget constraints.



THANK YOU

