

The Battles of Neighborhoods in Singapore

Final Project – 26/04/2020



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1. Introduction

Rental are expensive in Singapore.

A lot of decision factor such as rental price, accessibility to supermarkets, accessibility to good food with cheap price

How to choose the best town in Singapore to stay in by analyzing the open source data

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2. Data

Open source rental price index provided by Singapore Government.

The geospatial .json file that divides the Singapore into several towns that aids the choropleth plot.

Foursquare API to search and explore the available restaurant and supermarket in a town. The count of supermarket and count of affordable meal option will be used to determine whether a town is favorable.

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3. Choropleth map of Singapore

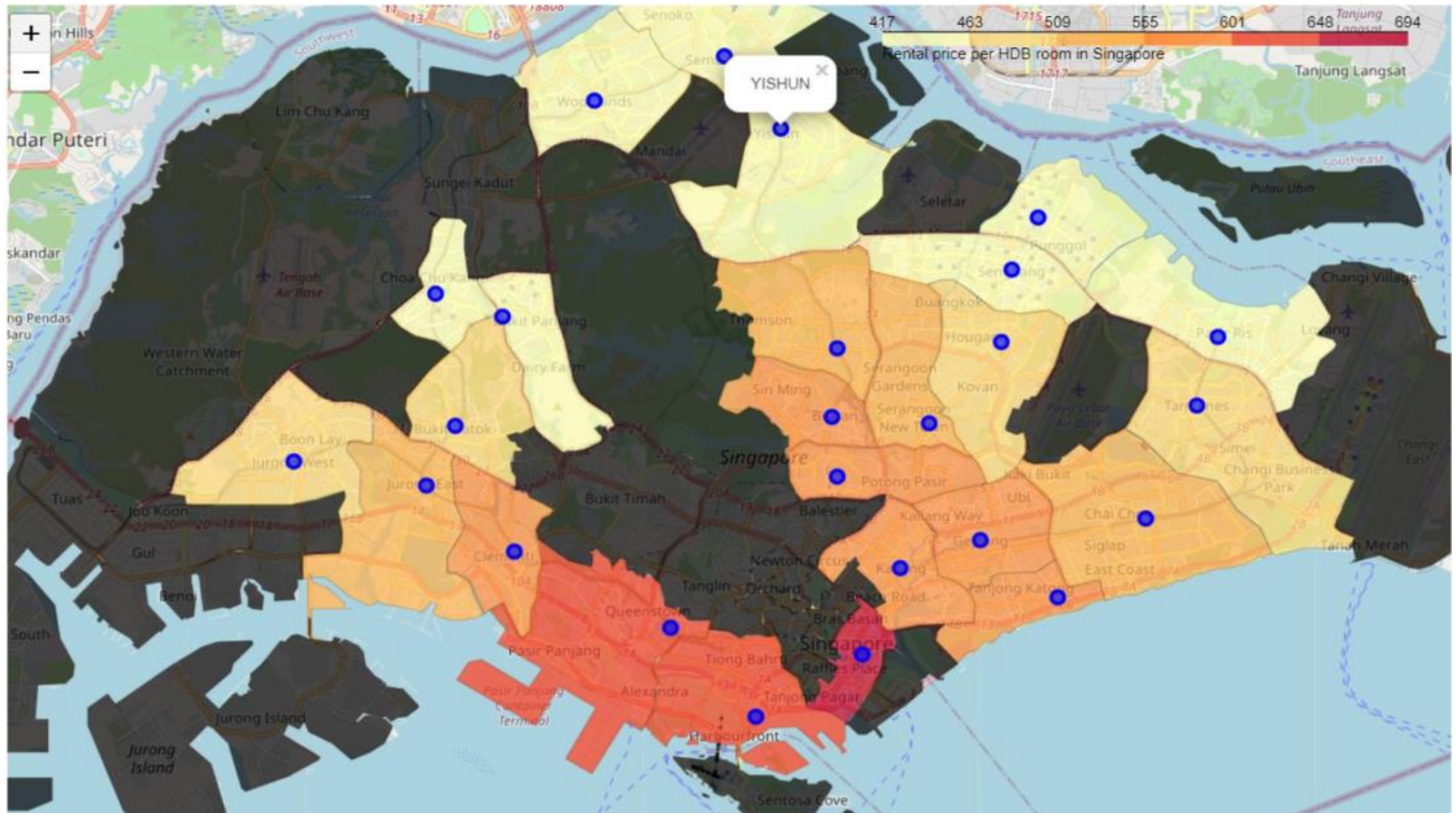


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4. Accessibility to supermarket

	town	price_per_room	latitude	longitude	number_of_supermarket
21	KALLANG	588.162037	1.310759	103.866262	37
16	GEYLANG	558.754630	1.318186	103.887056	27
7	YISHUN	461.898148	1.429384	103.835028	26
11	TAMPINES	506.712963	1.354653	103.943571	24
24	DOWNTOWN CORE	693.680556	1.287475	103.856033	22
19	BISHAN	562.175926	1.351452	103.848250	21
8	HOUGANG	479.657407	1.371904	103.892725	21
4	SENGKANG	429.903846	1.391432	103.895314	20
10	JURONG WEST	495.444444	1.339636	103.707339	18
14	ANG MO KIO	524.078704	1.370073	103.849516	18
12	BEDOK	510.949074	1.323976	103.930216	18
1	PUNGGOL	420.366667	1.405258	103.902330	17
13	JURONG EAST	514.055556	1.333115	103.742297	16
9	BUKIT BATOK	481.259259	1.349057	103.749591	15
17	TOA PAYOH	560.652778	1.335391	103.849741	15
5	BUKIT PANJANG	432.689815	1.378629	103.762136	14
20	CLEMENTI	574.555556	1.315100	103.765231	14
18	MARINE PARADE	560.714286	1.302689	103.907395	13
3	WOODLANDS	426.342593	1.436897	103.786216	12
2	CHOA CHU KANG	423.142857	1.384749	103.744534	12
15	SERANGOON	533.217593	1.349862	103.873729	10
6	PASIR RIS	454.041667	1.373031	103.949255	9
23	BUKIT MERAH	641.784091	1.270439	103.828318	9
0	SEMBAWANG	416.979167	1.449093	103.820055	9
22	QUEENSTOWN	639.722222	1.294623	103.806045	6

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5. Cheapest towns to stay in Singapore

	town	price_per_room	latitude	longitude	number_of_supermarket	food_worthiness
0	SEMPAWANG	416.979167	1.449093	103.820055	9	2.986111
1	PUNGGOL	420.366667	1.405258	103.902330	17	2.723810
2	CHOA CHU KANG	423.142857	1.384749	103.744534	12	2.677778
3	WOODLANDS	426.342593	1.436897	103.786216	12	2.880952
4	SENGKANG	429.903846	1.391432	103.895314	20	2.566667

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6. Food worthiness in these towns

	town	price_per_room	latitude	longitude	number_of_supermarket	food_worthiness	decision_factor
1	PUNGGOL	420.366667	1.405258	103.902330	17	2.723810	1.101918
3	WOODLANDS	426.342593	1.436897	103.786216	12	2.880952	1.022018
0	SEMBAWANG	416.979167	1.449093	103.820055	9	2.986111	1.000000
4	SENGKANG	429.903846	1.391432	103.895314	20	2.566667	1.000000
2	CHOA CHU KANG	423.142857	1.384749	103.744534	12	2.677778	0.537628

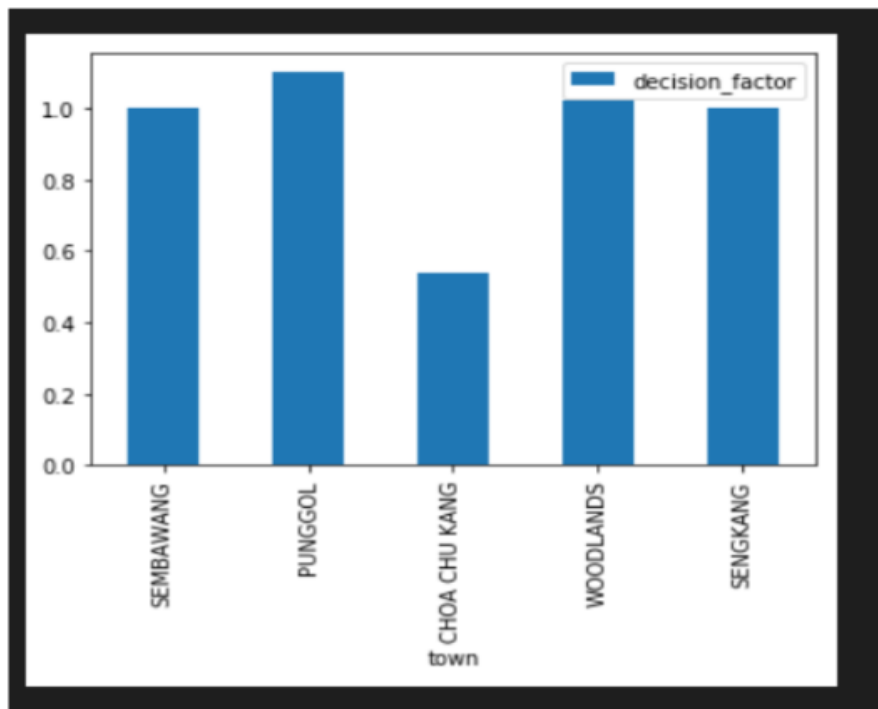


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