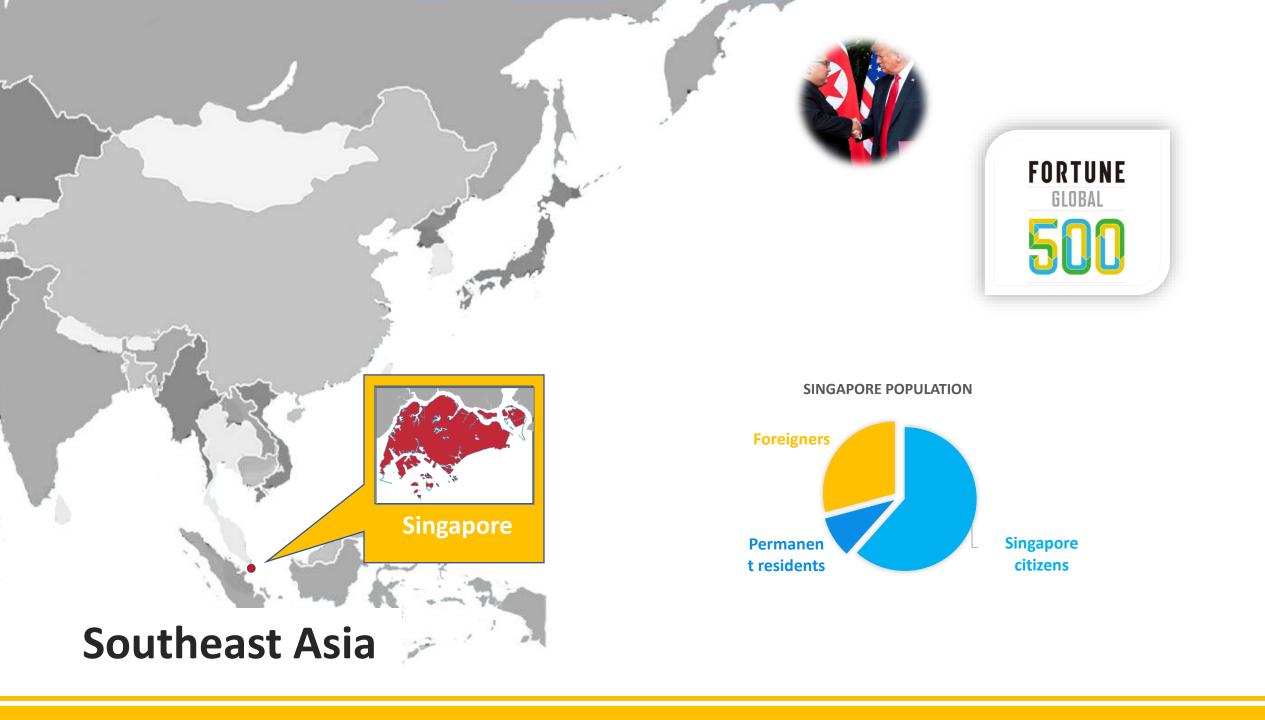


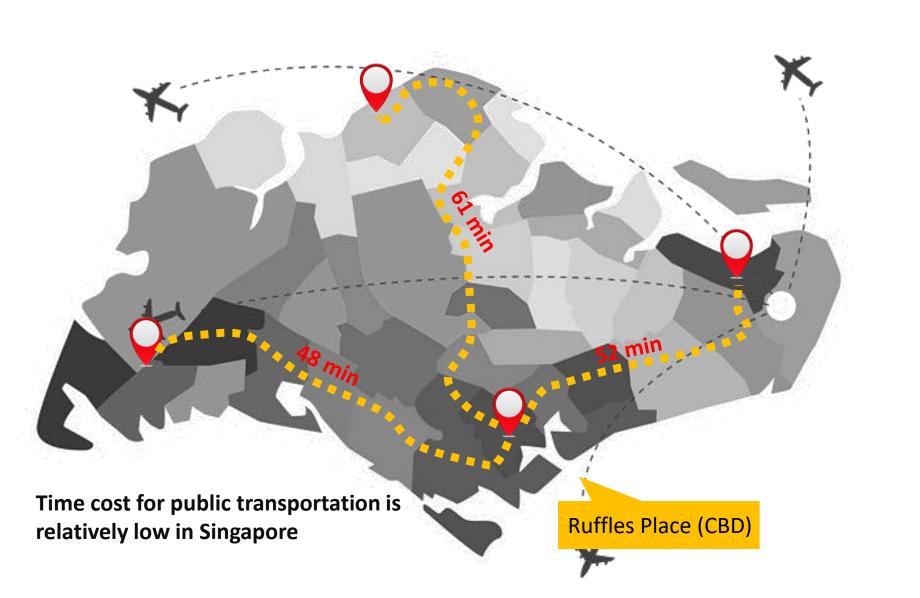
NAME: GENG ZHAOXIN

EMAIL: dorigeng.lg@gmail.com

DATE: 8th April 2019



## Where to live?











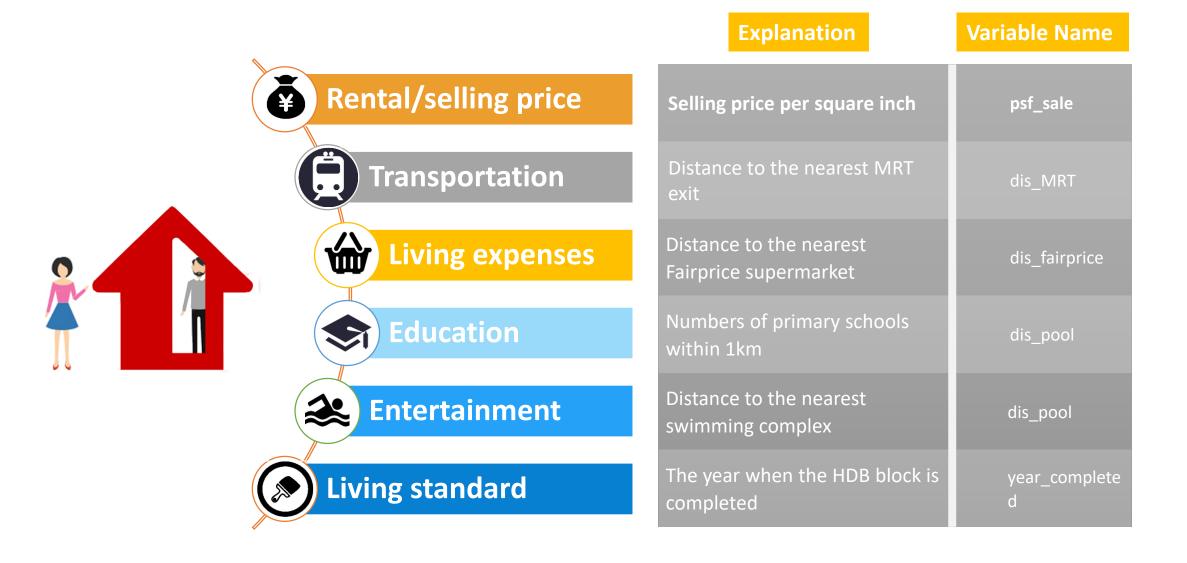




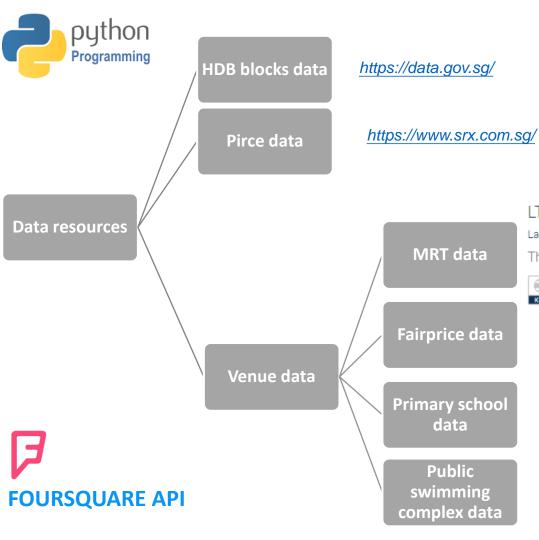




# **Key features of property**



## Where we get the data?



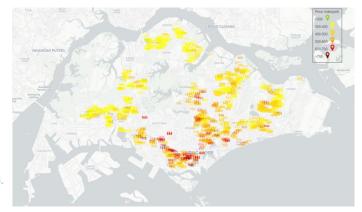
#### **HDB** Property Information

Housing and Development Board / 04 Apr 2019

HDB property information contains the location of existing HDB blocks, highest floor level, year of completion, type of building and number of HDB flats (breakdown by flat type) per block etc.







#### LTA MRT Station Exit

Land Transport Authority / 07 Nov 2018

The layer contains the locations of MRT station exits.





https://www.fairprice.com.sg/.

PRIMARY SCHOOLS BY PLANNING AREA IN YEAR 2019



https://www.moe.gov.sq/admissions/primary-one-registration/informationon-primary-schools/listing-by-planning-area





https://www.myactivesg.com/Facilities/Swimming-Pools

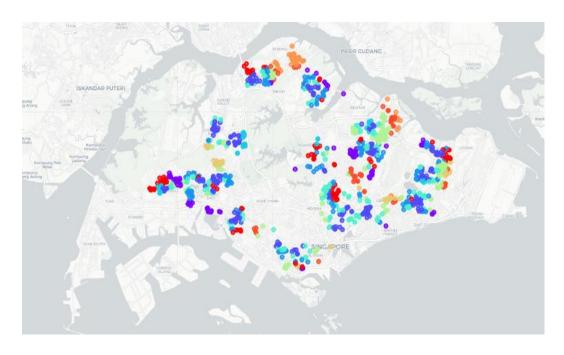
## What we get from the data?

### 1. A dataset searching for preferred HDB blocks

df = p		pd ('hdb_after csv('hdb-pr										
df.hea	ad()											
year	r_completed	dis_MRT	prim_no	psf_sale	dis_fairprice	dis_pool	cluster_lable	blk_no	street	latitude	longitude	
0	2009	199,468223	1.0	1005.1875	220.887653	2301.414936	10	1A	CANTONMENT RD	1.277830	103.840953	
1	2014	628.886166	2.0	1075.0000	426.195557	1145.402321	5	10A	BOON TIONG RD	1.286793	103.833135	
2	1977	1031.568882	1.0	287.6250	1048.577178	919.340838	0	36	MARSILING DR	1.442024	103.775188	
3	1980	1031.568882	1.0	289.2000	1048.577178	919.340838	0	201	MARSILING DR	1.442024	103.775188	
4	1989	951.765621	5.0	290,2500	1283,229845	879.546854	0	812	JURONG WEST ST 81	1.346300	103.695902	
у	ear_complete				dis_fairprice		cluster_lable		street latit		gitude	
y 292	ear_complete	0 194.583621	1 4.0	361.625		3411.690167	9		street latit CANBERRA RD 1.450			
y 292 print(	ear_complete 200 ('There are	0 194.583621	.shape[0	) 361.625 ]) + ' blo	292.548722	3411.690167	9					
292  print( There  # chec i = 29	car_complete 200 ('There are are 75 block out simi	194.583621  + str(df  k groups m	.shape[0] eet your	) 361.625 ]) + ' blo need the same gr	292.548722 ock groups m	3411.690167	9 9	351B		891 103.8	119987	] == 'Y
yrint( There # chec i = 29 df0000	car_complete 200 ('There are are 75 block out simi	' + str(df ck groups me	.shape[0] eet your within to	361.625 ]) + 'blo need the same gr df.loc[i,	292.548722 ck groups m	3411.690167 eet your ned	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	3518	CANBERRA RD 1.450	891 103.8	0['residential']	
y 292 print( There # chec i = 29 df0000	car_complete  200  ('There are are 75 blook out similar 22  D[(df0000[':	' + str(df ck groups me	.shape[0] eet your within to	) 361.625  ]) + ' blo need  the same gr  df.loc[i, year_comple	292.548722  ock groups m  oup  "year_compl ted residenti	3411.690167 eet your nedeted"])&(dfl	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	3518	CANBERRA RD 1.450	891 103.8	0['residential']	
y 292 print( There # chec i = 29 df0000	car_complete  200 ('There are are 75 blook out simi 32 D[(df0000[') blk_no 351B CAN	194.583621  ' + str(df ck groups m  lar blocks  year_comple  street max_1	.shape[0] eet your within to ted'] == floor_lvl y	) 361.625  ]) + ' blo need  the same gr  df.loc[i, year_comple	292.548722  ock groups m  oup  "year_compl ted residenti	3411.690167 eet your neeted"])&(dfi	9  9  9  9  9  9  9  9  9  9  9  9  9	351B	CANBERRA RD 1.450  If .loc[i, 'street']  iscellaneous multisto	891 103.8 )&(df0000 orey_carpar	0['residential'] k precinct_pavilio	n

An example of how to use HDB filter dataset

### 2. Categories based on clustering method



### What will we do next?

• Create an app (by using python GUI package PyQT and the dataset we got)

Extend to condos' market



