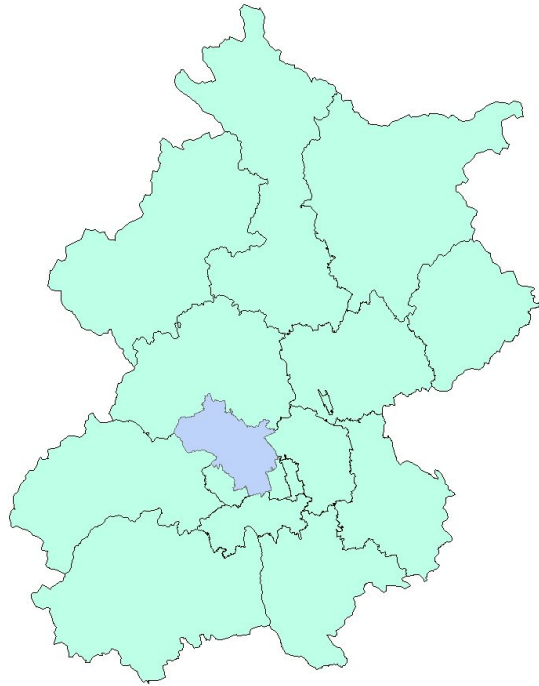


Generating the Spatial Visualization by ArcGIS



ArcGIS

Importing Map Data



Importing the Housing Dataset

File Edit View Bookmarks Insert Selection Geoprocess

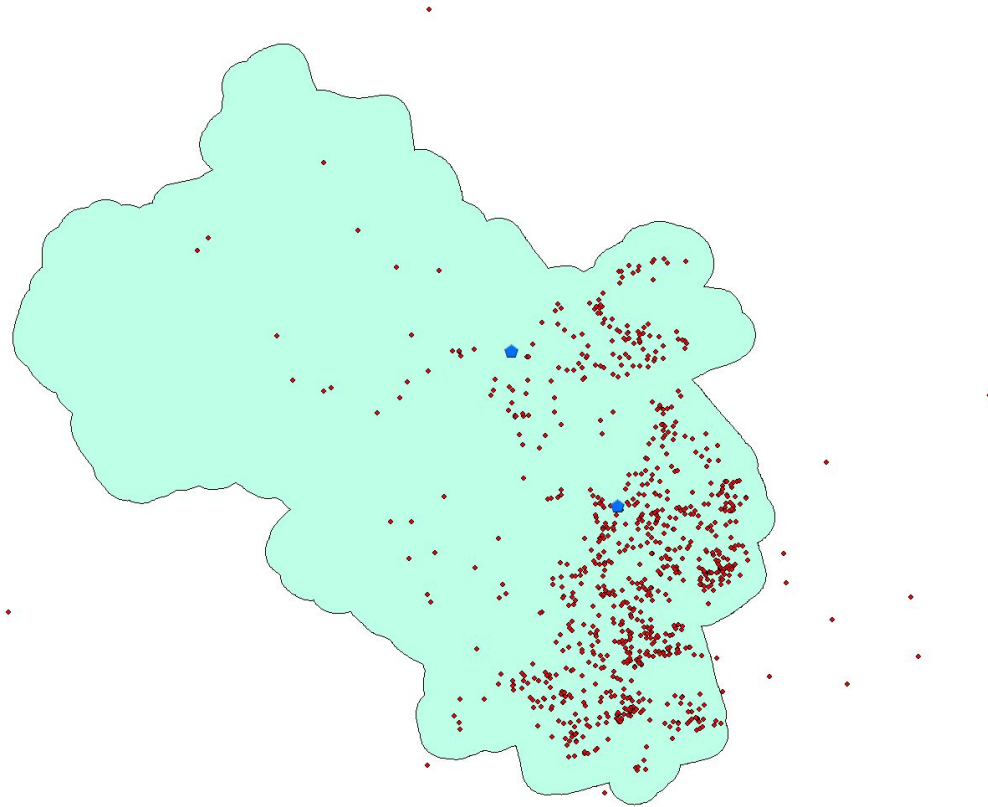
1:125,000

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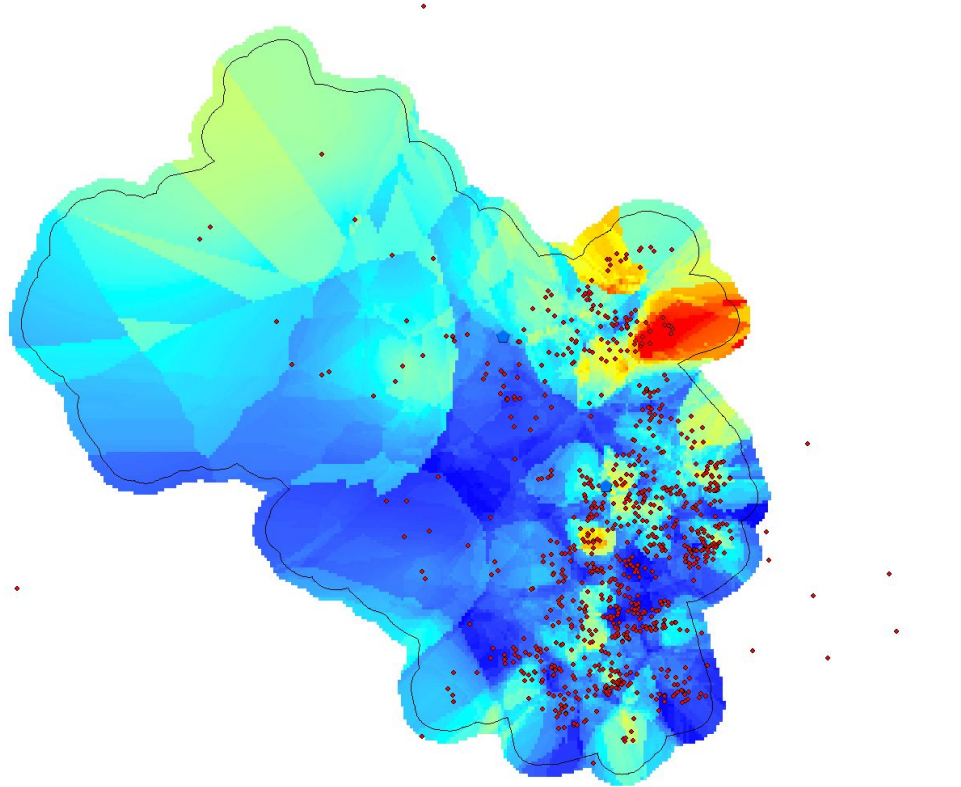
- crsdataset2018.csv
 - cs2018_pr1_PointDistance
 - cs2018_pr1_PointDistance
 - cs2018_pr1_PointDistance
 - cs2018_pr1_PointDistance
 - DistanceToCBD_ExcelToTable
 - dist_CBDs
 - dist_CBD_control
 - dist_cbdctl
 - dist_cbdctl
- New Data Frame
 - EIMCEPA CAPSTONE
 - cs2016_pr1
 - cs2018_pr1
 - buffer3
 - beijing_pr
 - EIMCEPA CAPSTONEDataSet1b.jp
 - Export_Output2
 - Coordinate_of_Softpark
 - Coordinate_of_Zhongguancun
 - crsdataset2018
 - Join_Output_3
 - Haidian_WGS
 - Beijing_WGS
 - EIMCEPA CAPSTONE
 - k2018p_mas
 - Value
 - High: 117023
 - Low: 41629.9
 - k2018n_mas
 - k2018n
 - Value
 - High: 42.417
 - Low: 2.97555
 - EIMCEPA CAPSTONE
 - Dataset.csv
 - E143 pictures
 - crsdataset2018.csv

id	community	latitude	longitude	transaction price	total transaction area	avg. transaction area	total transaction amount	number of houses sold
1	朝阳区	39.048483	116.408923	6881.179	252.11	63.0273	16945017.07	4
2	上海滩	40.945743	116.327465	75848.21728	2144.99	93.26	13949399.9	23
3	海淀区	39.822248	116.160769	6754.5	109.9	54.81	13949399.9	2
4	朝阳区	40.036253	116.336347	59107.73333	1044.7	6909322.8	13	2
5	朝阳区	40.96903	116.226993	57864	123.3	61.65	7155020.2	15
6	二环路沿线	39.694917	116.408923	6881.179	53.75	3360020.2	1	1
7	朝阳区	40.951171	116.32705	73208.75	1990.52	62.20375	141320824.2	22
8	朝阳区	40.947127	116.328423	68577.69231	1454.59	57.099615	100857713	28
9	朝阳区	40.948278	116.322029	59551.89199	2511.59	76.155948	168420115.9	27
10	朝阳区	40.948769	116.325558	60661	312.9	62.59	189174.7	1
11	朝阳区	40.93875	116.33579	65062.33333	699.2	55.266667	47411210.6	12
12	朝阳区	40.93879	116.32964	64034.99744	2352.57	58.725954	21515852.6	29
13	朝阳区	40.943973	116.330147	6559.65	57.45655	289.32029.4	1	3
14	朝阳区	40.942851	116.327801	61767	165.05	55.026667	1020004.25	3
15	朝阳区	39.93332	116.33013	79797.7	60.672	50.430116	2430116.26	19
16	朝阳区	39.94637	116.328524	20.2	69.0875	9990204.1	1	1
17	朝阳区	39.95103	116.336695	80426.19182	203.38	58.216394	5352022.19	11
18	朝阳区	39.944172	116.330381	82725.93333	388.58	98.092323	48530190.46	6
19	朝阳区	39.92829	116.336695	70537.5	285.3	59.18	2141892.3	1
20	朝阳区	39.950152	116.320057	98371.75	203.14	75.793	2292041.95	5
21	朝阳区	39.950182	116.319648	84791	57.2	57.2	4350048.2	1
22	朝阳区	39.954164	116.326389	84460	97.38	48.89	8320057.22	2
23	朝阳区	39.95443	116.325468	87112.11111	360.9	62.322222	48915207.4	9
24	朝阳区	39.951166	116.289572	89552	60.3	60.3	5400045.3	1
25	朝阳区	39.950517	116.322022	90524	268.4	66.35	24000116.2	4
26	朝阳区	39.950991	116.32686	84743	251.21	67.07	1700008.18	3
27	朝阳区	39.955297	116.325558	81545.66667	144.91	48.303333	11750028.94	1
28	朝阳区	39.947033	116.31973	69485	217.43	217.43	15100077.84	3
29	朝阳区	39.973178	116.321153	89417	58.3	58.3	4620000.0	1
30	朝阳区	39.948802	116.319023	89439.5	721.4	60.166667	6471636.5	12
31	朝阳区	39.947033	116.31973	106894	84.035	54.035	17970066.94	2
32	朝阳区	39.944259	116.327465	101599	324.54	324.54	33000170.78	1
33	朝阳区	39.944433	116.33452	80907	89.7	49.93	899008.08	1
34	朝阳区	39.95379	116.323453	89021	264.8	66.2	2367890.1	4
35	朝阳区	39.95327	116.323543	92599	54	54	3000022	1
36	朝阳区	39.954144	116.323987	94667	28.4	28.4	1000000	1
37	朝阳区	39.953947	121.581026	8264.71429	789.64	58.402957	6496835.52	14
38	昌平区	39.954538	116.32406	66424.42557	1894.95	124.629266	11199031.3	3
39	昌平区	40.416851	120.443387	165.63	165.63	1000000.0	1	1
40	昌平区	39.95183	116.32032	87679	370.6	63.4	49959188.3	14
41	昌平区	39.97465	116.33596	83222.38333	686.1	97.178	58409358.2	7
42	朝阳区	39.971363	116.34618	42657	421.8	60.238571	33820150.6	12
43	朝阳区	39.970915	116.345948	11675.40337	44.4	63.057143	36032043.6	12
44	朝阳区	39.97374	116.368572	89804	216.64	72.21333	1960165.3	1
45	昌平区	39.97469	116.350503	87120.52779	2671.57	74.10273	294621028.1	26
46	昌平区	39.97391	116.34821	89975	295.69	59.138	2870000.0	1
47	昌平区	39.97327	116.362688	93024.2	924	51.5	67302042.49	16
48	昌平区	39.951688	116.294258	85079	152.3	95.785	12942009.5	1
49	昌平区	39.94533	116.294125	76.43	76.43	6590047.15	1	1
50	昌平区	39.94731	116.294386	101583.72727	620.04	58.36723	58920226.22	11
51	昌平区	39.951262	116.295048	88893	264.2	121.4	32260282.6	1
52	昌平区	39.95467	116.296583	1111	506.25	59.533333	5511528.92	9
53	昌平区	39.95379	116.297391	90459.59974	2332.04	59.769897	210791724	29
54	昌平区	39.951932	116.295896	97111	151.7	75.85	14720077.52	1
55	昌平区	39.950571	116.297133	91667.30333	566.123	55.766667	13520000.9	2
56	昌平区	39.95111	116.300426	94661.27273	350.53	92.75493	58215191.76	11
57	昌平区	39.946803	116.303257	94420	54.7	54.7	5200201	1
58	昌平区	39.951118	116.298476	88893.5	297.4	39.48	2620121.3	3
59	昌平区	39.920944	116.293963	8	439.2	114.81	2380000.0	1
60	昌平区	39.92387	116.295359	72066	607.11	75.88875	4367038.37	8
61	昌平区	39.926995	116.300171	103536.8947	1189	62.528316	121520623.3	19
62	昌平区	39.94667	104.05324	120	384.7	48.0875	2175515.71	5
63	昌平区	39.921775	116.296721	70746.38111	2086.93	62.820779	15808611.3	38
64	昌平区	39.92876	116.302632	89770.70588	1901.34	111.943529	13689919.4	17
65	昌平区	39.920244	116.290009	94661.27273	3338.99	61.40098	40254708.4	87
66	昌平区	39.926983	116.301587	83367	245.9	61.475	20040093.6	6
67	昌平区	39.92913	116.301596	85118	181.32	60.44	15470077.52	3
68	昌平区	39.92913	116.301596	81289.87778	2587.73	57.505556	20961403.46	45
69	昌平区	39.926461	116.301286	90157.14	110.9	82.1	10000000	2

Locating the communities and the CBDs



Visualizing the Home Transactions Distribution



Visualizing the Housing Prices Distribution

