



NEW YORK HEALTH FACILITY ANALYSIS

DATA ACQUISITION AND CLEANING

Raw data

	0	1	2	3	4	5	6	7	8
0	None	None	None	None	None	None	None	None	None
1	001	Albany	1683	One of 12 original counties created in the New...	James II of England (James VII of Scotland) (1...	570.74	304,204	533 sq mi(1,380 km2)	
2	003	Belmont	1806	Genesee County	A variant spelling of the Allegheny River	47.34	48,946	1,034 sq mi(2,678 km2)	
3	005	none	1914[7]	New York County	Jonas Bronck (1600?–1643), an early settler of...	24,118.20	1,385,108	57.43 sq mi(149 km2)	
4	007	Binghamton	1806	Tioga County	John Broome (1738–1810), fourth Lieutenant Gov...	280.56	200,600	715 sq mi(1,852 km2)	

Population in state of NY

	County	Population Density (ppl per sq mi)	Population
0	Albany	570.74	304,204
1	Allegany	47.34	48,946
2	Bronx	24,118.20	1,385,108
3	Broome	280.56	200,600
4	Cattaraugus	61.31	80,317

Population in NYC

	County	Population Density (ppl per sq mi)	Population	Latitude	Longitude
2	Bronx	24,118.20	1,385,108	40.8505	-73.8404
23	Kings	25,848.30	2,504,700	40.6453	-73.955
30	New York	46,961.00	1,585,873	40.781	-73.9593
40	Queens	12,512.46	2,230,722	40.6525	-73.7914
42	Richmond	4,572.98	468,730	40.5642	-74.1253

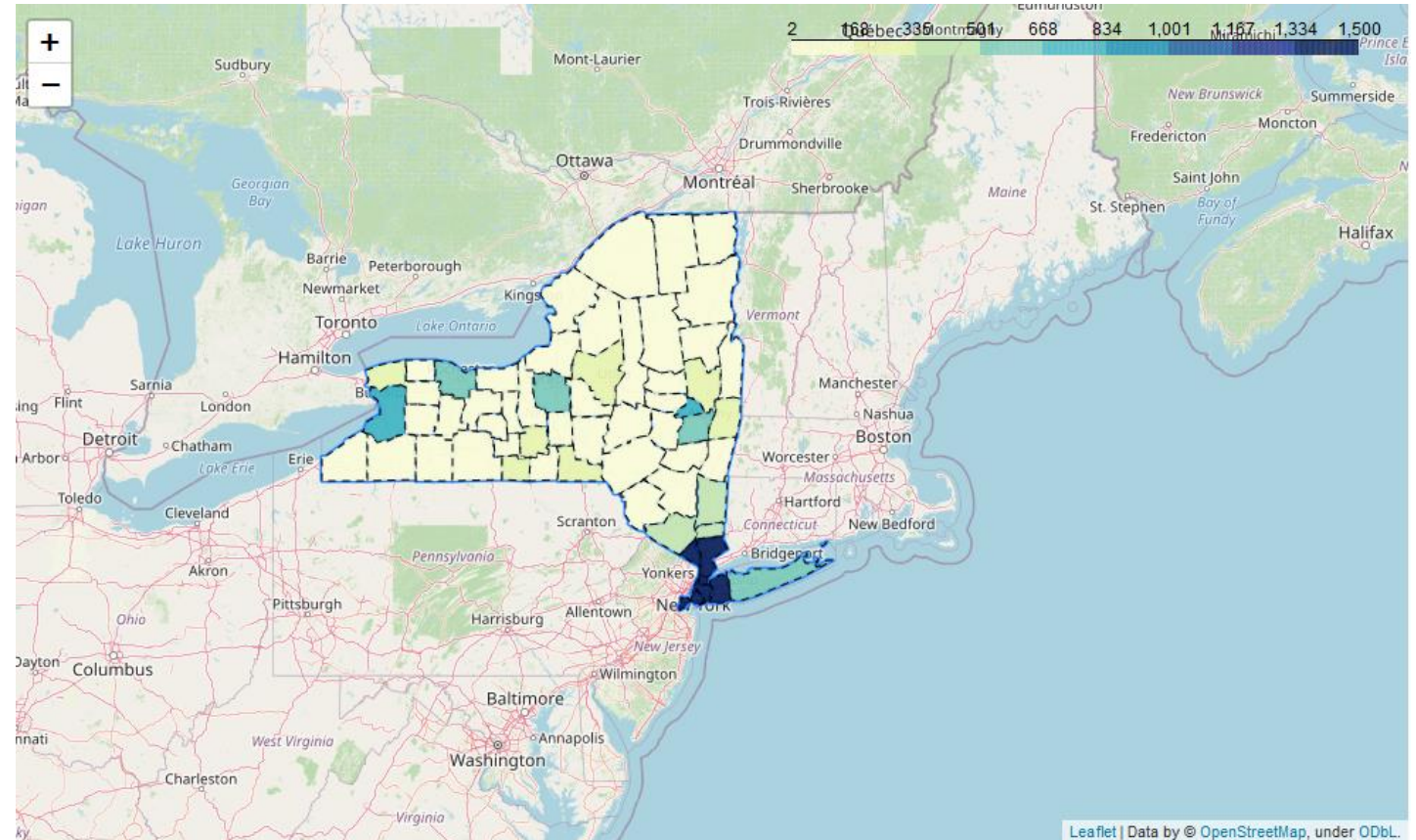
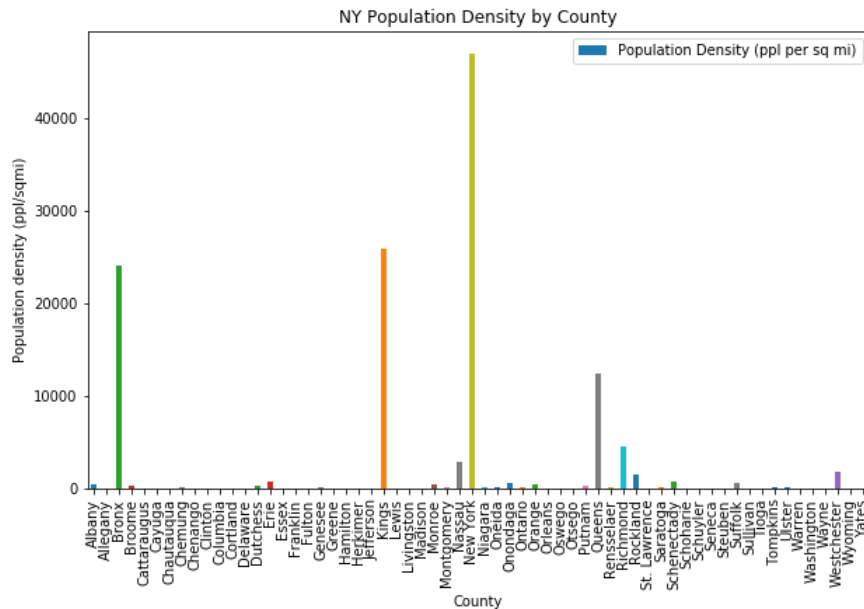
MEDICAL CENTER DATA BY INQUIRE FOURSQUARE

Venue	Venue Latitude	Venue Longitude	Venue Category
Montefiore Medical Center	40.849072	-73.846181	Hospital
NYC Health + Hospitals/Jacobi	40.856809	-73.846739	Hospital
Montefiore Medical Pavillion	40.880135	-73.878712	Medical Center
Westchester Square Medical Center	40.840897	-73.848290	Hospital
Calvary Hospital	40.848169	-73.843860	Hospital
NewYork-Presbyterian/The Allen Hospital	40.873327	-73.913051	Hospital
Bronx Psychiatric Center	40.850349	-73.838997	Hospital
St. Barnabas Hospital	40.852741	-73.891168	Hospital
Van Etten-Albert Einstein College of Medicine	40.852606	-73.846368	Hospital
Building 1: 9E	40.855960	-73.846450	Hospital
UrgentWay	40.844194	-73.835321	Hospital

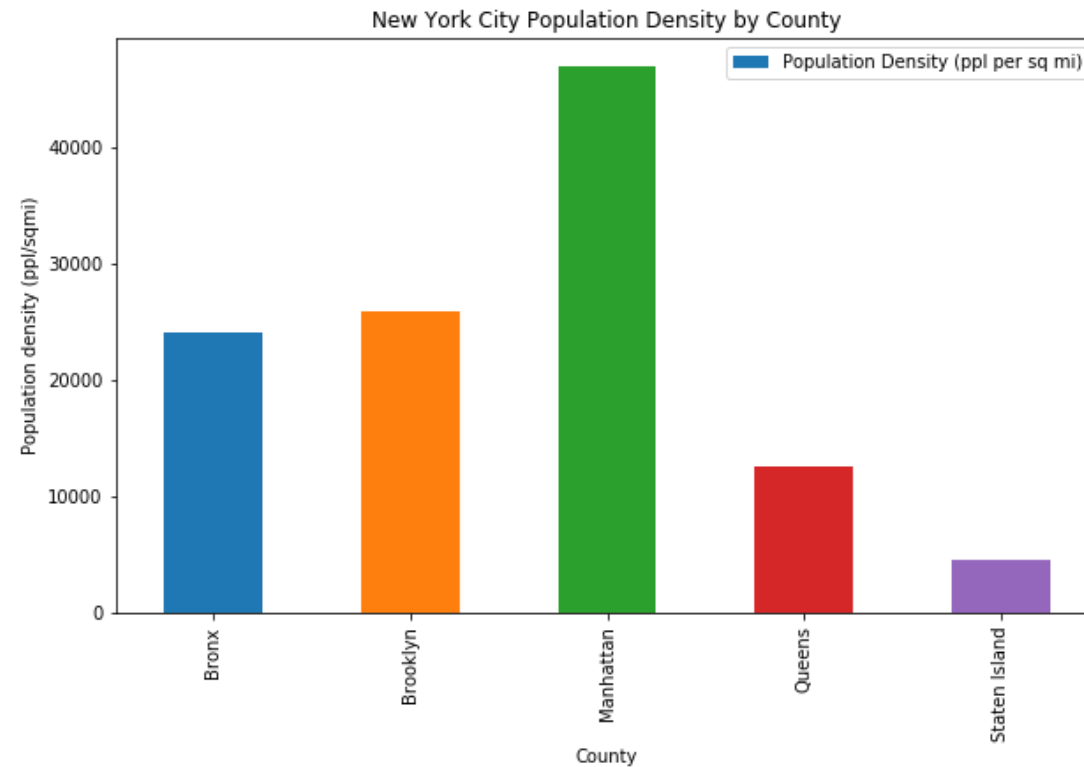
DATA ON MEDICAL FACILITIES BY HEALTH DATA NY

Facility ID	Facility Name	Description	Short Description	Attribute Type	Attribute Value	Measure Value	Sub Type	County	Regional Office	Effective Date	
2284	277	Brooklyn-Queens Nursing Home	Residential Health Care Facility - SNF	NH	Bed	RHCF	140.0	Permanent	Kings	Metropolitan Area Regional Office - New York City	10/01/1998
7156	845	ODA Primary Health Care Network, Inc	Diagnostic and Treatment Center	DTC	Service	Optometry O/P	NaN	Processing Stations	Kings	Metropolitan Area Regional Office - New York City	01/24/2012
7196	856	Grand Manor Nursing & Rehabilitation Center	Residential Health Care Facility - SNF	NH	Bed	RHCF	240.0	Permanent	Bronx	Metropolitan Area Regional Office - New York City	01/01/1991
						Chemical				Metropolitan Area	

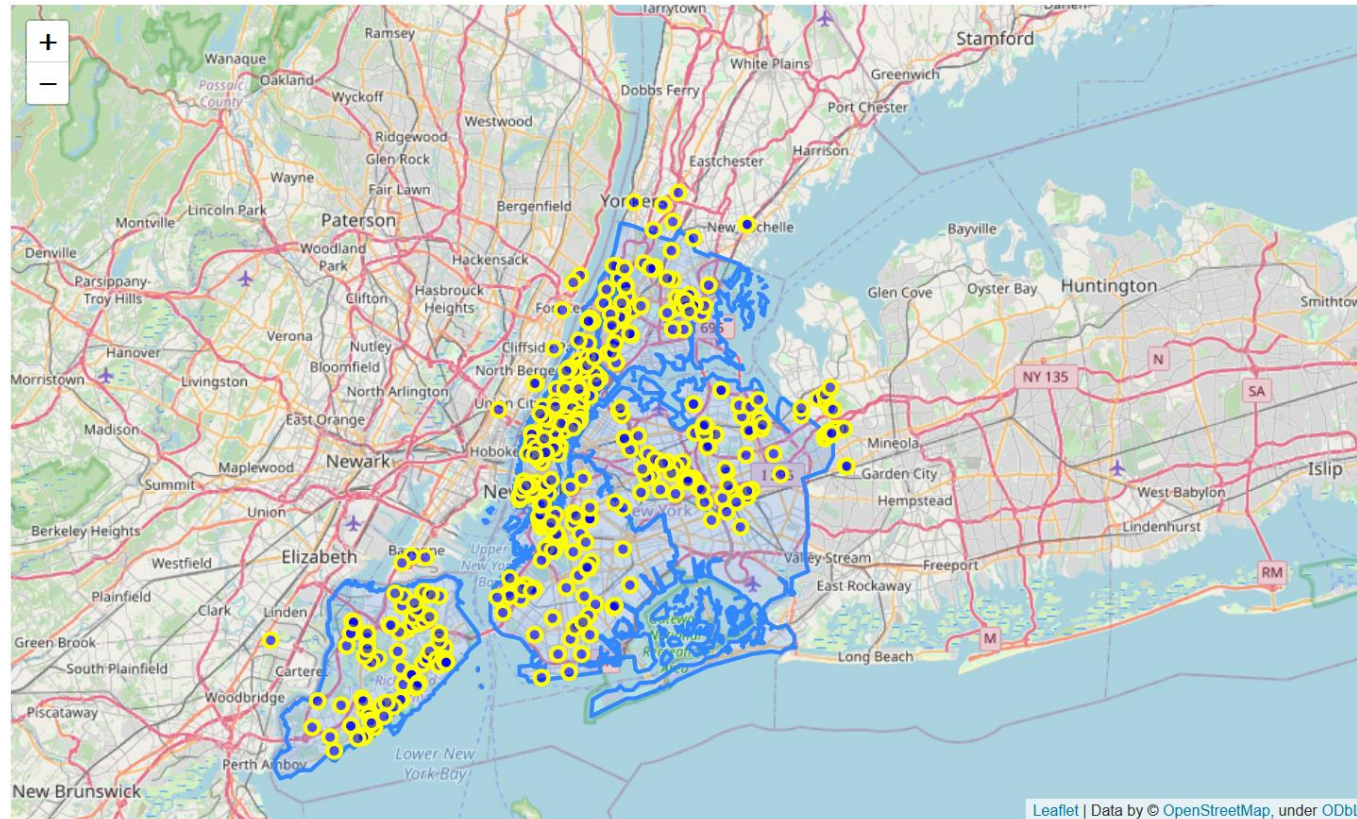
NEW YORK COUNTY POPULATION DENSITY



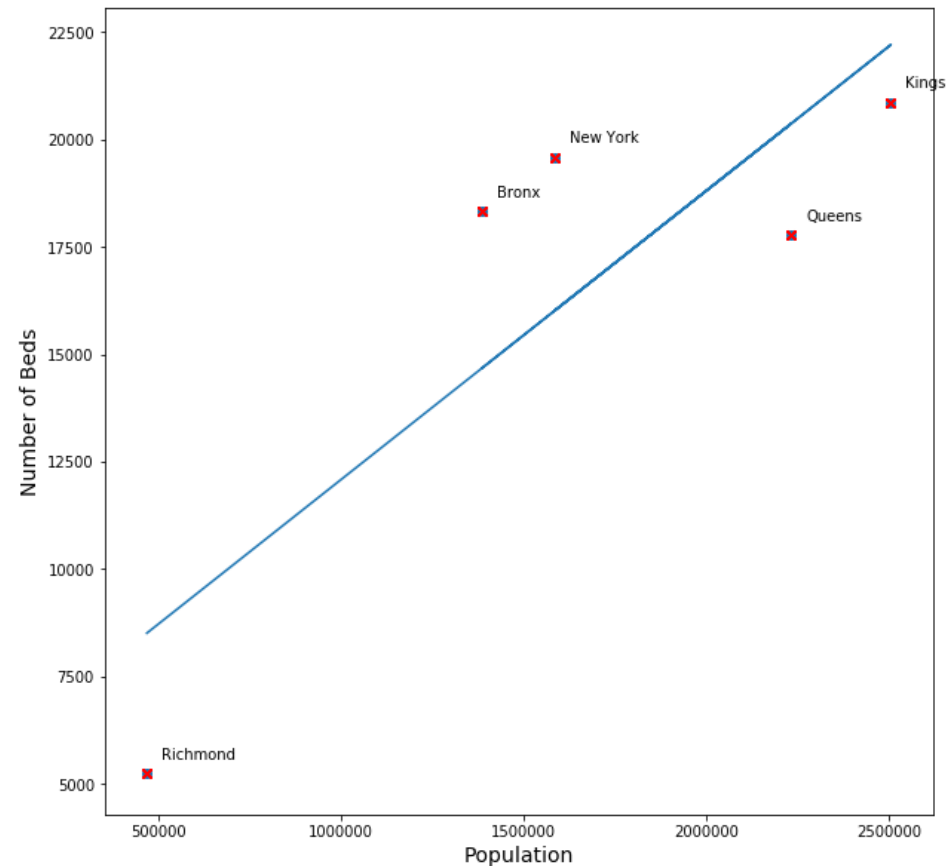
NEW YORK CITY POPULATION DENSITY BY COUNTY



VISUALIZE THE MEDICAL CENTERS IN NYC



RELATIONSHIP BETWEEN COUNTY POPULATION AND BED NUMBER



ANALYSIS OF NUMBER OF BEDS FOR EACH BED TYPE PER FACILITY

Facility	County	RHCF	Chemical Dependence - Rehabilitation	Chemical Dependence - Detoxification	Psychiatric	Burns Care	Coronary Care	Intensive Care	Maternity	Medical / Surgical	Neonatal Continuing Care	Neonatal Intensive Care	Neonatal Intermediate Care	Perinatal
Brooklyn-Queens Nursing Home	Kings	140.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Grand Manor Nursing & Rehabilitation Center	Bronx	240.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
BronxCare Hospital Center	Bronx	0.0	30.0	36.0	104.0	0.0	11.0	26.0	36.0	250.0	6.0	14.0	20.0	
Jacobi Medical Center	Bronx	0.0	0.0	16.0	107.0	8.0	12.0	24.0	26.0	174.0	5.0	10.0	10.0	
Montefiore Medical Center-Wakefield Hospital	Bronx	0.0	0.0	0.0	33.0	0.0	0.0	16.0	30.0	206.0	2.0	4.0	9.0	
Montefiore Medical Center - Henry & Lucy Moses Div	Bronx	0.0	0.0	0.0	22.0	0.0	12.0	48.0	0.0	581.0	0.0	0.0	0.0	
Lincoln Medical & Mental Health Center	Bronx	0.0	0.0	0.0	60.0	0.0	7.0	23.0	35.0	177.0	10.0	5.0	5.0	
Calvary Hospital Inc	Bronx	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	200.0	0.0	0.0	0.0	
SBH Health System	Bronx	0.0	0.0	24.0	49.0	0.0	0.0	26.0	16.0	254.0	5.0	0.0	10.0	
North Central Bronx Hospital	Bronx	0.0	0.0	0.0	70.0	0.0	0.0	20.0	26.0	79.0	2.0	7.0	3.0	

CLUSTERING OF THE FACILITIES BASED ON THE NUMBER OF BEDS FOR EACH BED TYPE

Facility	Cluster Labels	County	RHCF	Chemical Dependence - Rehabilitation	Chemical Dependence - Detoxification	Psychiatric	Burns Care	Coronary Care	Intensive Care	Maternity	Medical / Surgical	Neonatal Continuing Care	Neonatal Intensive Care	Neonatal Intermediate Care
Brooklyn-Queens Nursing Home	1	Kings	140.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Grand Manor Nursing & Rehabilitation Center	0	Bronx	240.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BronxCare Hospital Center	2	Bronx	0.0	30.0	36.0	104.0	0.0	11.0	26.0	36.0	250.0	6.0	14.0	20.0
Jacobi Medical Center	2	Bronx	0.0	0.0	16.0	107.0	8.0	12.0	24.0	26.0	174.0	5.0	10.0	10.0
Montefiore Medical Center-Wakefield Hospital	2	Bronx	0.0	0.0	0.0	33.0	0.0	0.0	16.0	30.0	206.0	2.0	4.0	9.0

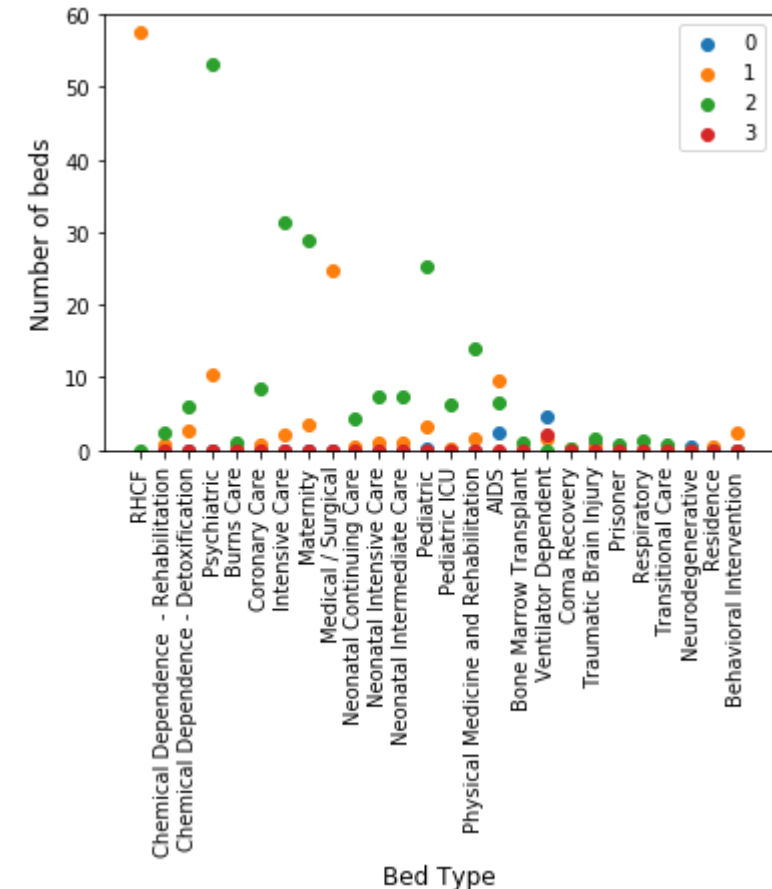
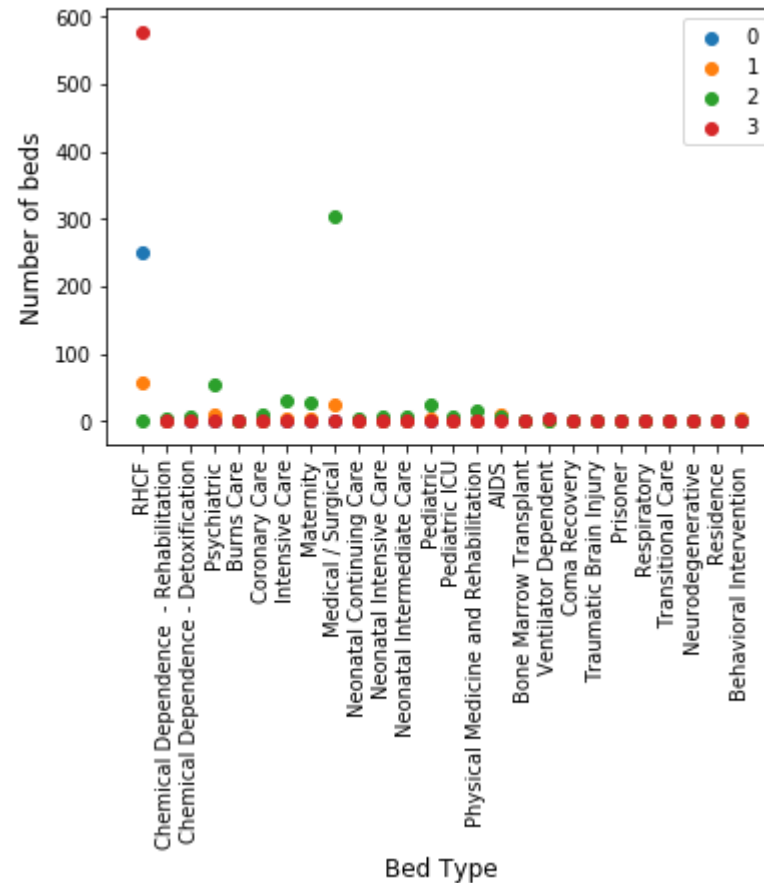
AVERAGE NUMBER OF BEDS PER BED TYPE FOR EACH CLUSTER

	RHCF	Chemical Dependence - Rehabilitation	Chemical Dependence - Detoxification	Psychiatric	Burns Care	Coronary Care	Intensive Care	Maternity	Medical / Surgical	Neonatal Continuing Care	Neonatal Intensive Care	Neonatal Intermediate Care	Pediatric
Cluster Labels													
0	251.321739	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.278
1	57.694915	0.745763	2.542373	10.305085	0.050847	0.711864	2.220339	3.627119	24.813559	0.389831	0.915254	0.881356	3.254
2	0.000000	2.341463	6.024390	53.097561	1.000000	8.365854	31.292683	28.756098	304.048780	4.390244	7.341463	7.317073	25.219
3	578.187500	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000

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AVERAGE NUMBER OF BEDS PER BED TYPE FOR EACH CLUSTER



PERCENTAGE OF CLUSTER TYPE IN EACH NYC COUNTY

