

It would be valuable for entrepreneurs

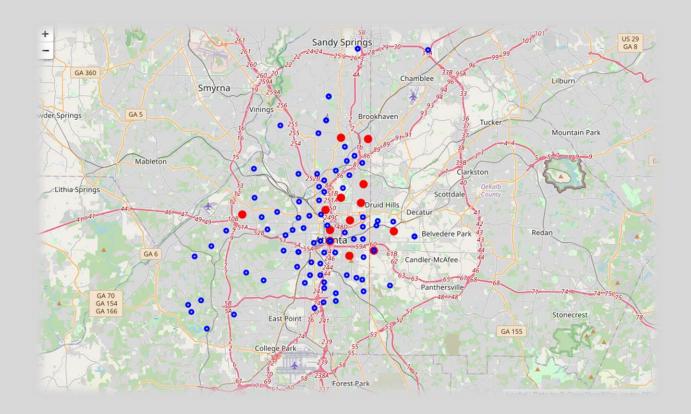
- Growing market for health quality
- Necessary for those who want high performance
- A store near to gyms is very convenient to buy after/before a workout
- A Gym with a better rating is more attractive
- A store near home is convenient
- Interesting study to place a new store

Data acquisition and cleaning

- Neighborhood data from Wikipedia
- Coordinates from Bing Maps API with Geocoder
- Venues data from Foursquare Api
- Duplicates was removed
- Unnecessary data removed

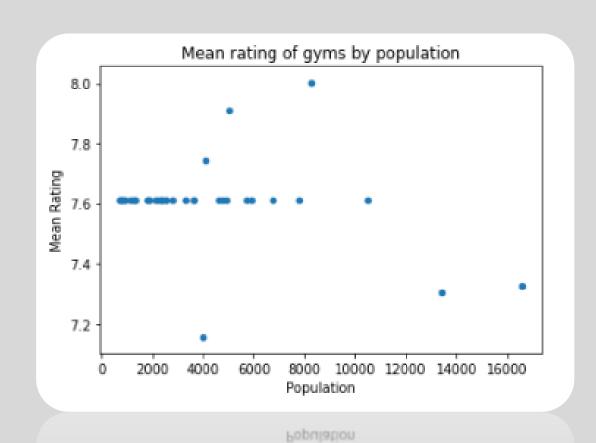
Neighborhood by population

- Red >= 5000
- Blue < 5000



Gyms Mean Ratings by population

It seems like neighborhoods closer to the mean population does have a better gym rating



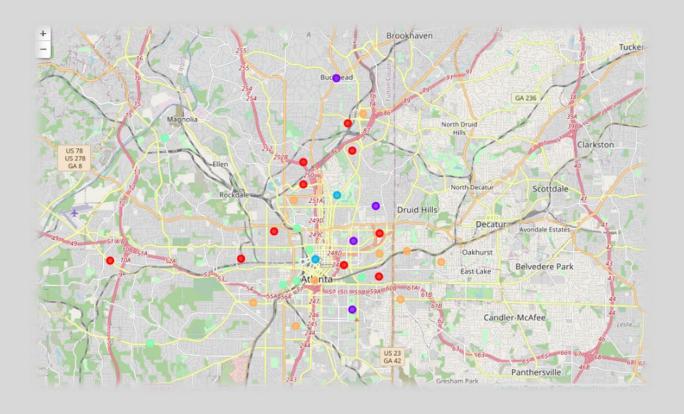
The final table

That was the final table, sorted by the Mean gym ratings from the neighborhood

	rating	Population (2010)	Latitude	Longitude
Neighborhood				
North Buckhead	8.004444	8270	33.839420	-84.379921
East Atlanta	7.910000	5033	33.739983	-84.345039
Inman Park	7.745333	4098	33.760693	-84.356461
Adamsville	7.613333	2403	33.757393	-84.502136
Arlington Estates	7.613333	776	33.692005	-84.542496
Kirkwood	7.613333	5897	33.756870	-84.323181
Marietta Street Artery	7.613333	745	33.771884	-84.401108
Old Fourth Ward	7.613333	10505	33.766434	-84.370407
Peachtree Heights West	7.613333	4767	33.738483	-84.424828
Peachtree Hills	7.613333	2785	33.819088	-84.373625
Piedmont Heights	7.613333	2323	33.806732	-84.371185
Pittsburgh	7.613333	3658	33.728100	-84.401627
Poncey-Highland	7.613333	2133	33.769669	-84.356514
Reynoldstown	7.613333	2550	33.750195	-84.356644
Riverside	7.613333	1341	33.812408	-84.472649
Sweet Auburn	7.613333	1882	33.755493	-84.375519
The Villages at Castleberry Hill	7.613333	864	33.746693	-84.408524
Hunter Hills	7.613333	2223	33.758240	-84.431358
Home Park	7.613333	4941	33.784515	-84.402824
Heritage Valley	7.613333	910	33.723721	-84.737991
Castleberry Hill	7.613333	1285	33.748230	-84.401588
Atlanta University Center	7.613333	5703	33.748547	-84.391502
Audubon Forest	7.613333	813	33.715942	-84.776321
Brookwood	7.613333	1834	33.801762	-84.397545
Cascade Heights	7.613333	1124	33.720242	-84.480431
Virginia-Highland	7.613333	7800	33.782063	-84.358688
English Avenue	7.613333	3309	33.770699	-84.413471
Grant Park	7.613333	6771	33.735443	-84.371178
Greenbriar	7.613333	3628	33.683338	-84.493637
Hammond Park	7.613333	2565	33.918034	-84.361977
Cabbagetown	7.613333	1247	33.750156	-84.365959
Lindbergh	7.613333	4598	33.823410	-84.365349
Baker Hills	7.613333	757	33.762275	-84.394118
Atlantic Station	7.613333	1888	33.791836	-84.397514
Chastain Park	7.613333	2398	33.876190	-84.392853
Midtown	7.328000	16569	33.786800	-84.379517
Downtown	7.304444	13411	33.757935	-84.391304
Edgewood	7.156667	3983	33.761787	-84.341835

Clustering

After clustering, the most interesting
Neighborhoods was the ones closer
To the mean value of population and
Better gym rates (The purple dots)



Conclusion and future directions

- The first conclusion is North Buckhead with the best gyms and a nice population
- For more details would be interesting to have prices table (was not available in the venues gathered)
- It is important to have up to date data
- Foursquare is very limited because few people have used and no one uses anymore
- Ideas include:
 - Pricing data
 - More ratings
 - Visitation data