

In this analysis, I highlight locations within Chicago that present an opportunity because of proximity to baseball parks and high disposable income of the neighborhood. Then using Foursquare location data, I will define the businesses present at these locations and recommend the type of business to open.

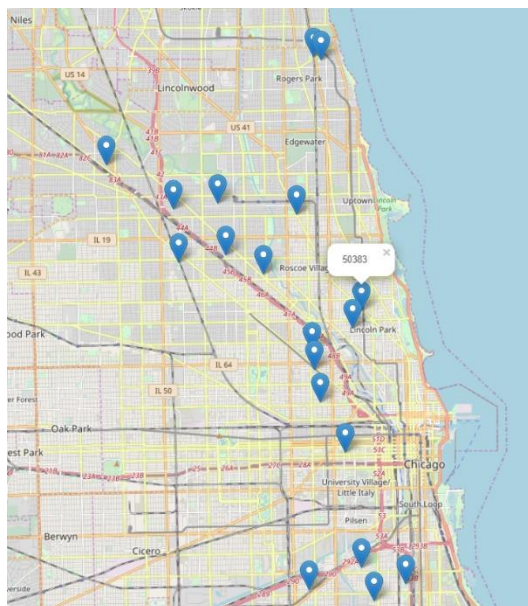
Data Sources:

1. Average Income by Neighborhood in Chicago
  - o <https://www.chicagocomputerclasses.com/average-city-chicago-income/>
2. Average Rent by Neighborhood in Chicago
  - o <https://www.rentcafe.com/average-rent-market-trends/us/il/chicago/>
3. Public Baseball Parks in Chicago (Chicago Data Portal)
  - o <https://data.cityofchicago.org/Parks-Recreation/Parks-Chicago-Park-District-Facilities-current-/5yyk-qt9y>
4. Foursquare

I calculated average yearly rent and subtracted this from average income by neighborhood to calculate disposable income. I identified neighborhoods with high disposable income (> \$15,000/year, 70<sup>th</sup> percentile of neighborhoods analyzed) for further analysis, reasoning that these neighborhoods had more money to spend to eat at restaurants.

Community Name	PARK_NO	PARK	the_geom	FACILITY_N	FACILITY_T	Longitude	Latitude	GISOBJID	Neighborhood	Income_per_capita_avg	Avg_rent	disposable_income	Yearly_rent	stuntin
Lincoln Park	1270	JONQUIL	POINT (-87.65407203164379 41.928307025559526)	BASEBALL JR/SOFTBALL	OUTDOOR	-87.654072	41.928307	2821	Lincoln Park	71551	1764	50383	21168	True
Lincoln Park	1017	TREBES	POINT (-87.6580819813362 41.922257536558895)	BASEBALL JR/SOFTBALL	OUTDOOR	-87.658082	41.922258	4185	Lincoln Park	71551	1764	50383	21168	True
Kenwood	1010	KENWOOD COMM.	POINT (-87.59354046393938 41.80444802411607)	BASEBALL JR/SOFTBALL	OUTDOOR	-87.593540	41.804448	2889	Kenwood	35911	1516	17719	18192	True
West Town	412	CHURCHILL FIELD	POINT (-87.67702700711573 41.91432888288015)	BASEBALL JR/SOFTBALL	OUTDOOR	-87.677027	41.914329	1877	West Town	43198	2211	16666	26532	True
West Town	1006	COMMERCIAL CLUB PGD. OF CHICAGO	POINT (-87.67342065043289 41.896679757191094)	BASEBALL JR/SOFTBALL	OUTDOOR	-87.673421	41.896680	1953	West Town	43198	2211	16666	26532	True
West Town	214	WICKER (CHARLES, JOEL)	POINT (-87.67604939154143 41.90778678936269)	BASEBALL JR/SOFTBALL	OUTDOOR	-87.676049	41.907787	4475	West Town	43198	2211	16666	26532	True
Near West Side	211	SKINNER (MARK)	POINT (-87.66161610104675 41.87926812493267)	BASEBALL JR/SOFTBALL	OUTDOOR	-87.661616	41.879268	4060	Near West Side	44689	2296	17137	27552	True
Lincoln Square	110	WELLES (GIDEON)	POINT (-87.68438836527325 41.96161437409272)	BASEBALL JR/SOFTBALL	OUTDOOR	-87.684388	41.961614	4388	Lincoln Square	37524	1193	23208	14316	True

I used the Chicago Data Portal's Park Facilities dataset for coordinates of parks and subset on facilities with baseball fields. I visualized these locations and their average disposable income using the Folium package.



Finally, I used Foursquare to identify the most common types of businesses within 500 meters (~.3 miles) of the parks of interest (have baseball fields and were in high disposable income neighborhoods).

	Neighborhood	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	4th Most Common Venue	5th Most Common Venue	6th Most Common Venue	7th Most Common Venue	8th Most Common Venue	9th Most Common Venue	10th Most Common Venue
8	COMMERCIAL CLUB PGD. OF CHICAGO	Mexican Restaurant	Bar	Japanese Restaurant	Cosmetics Shop	Dive Bar	Pizza Place	Coffee Shop	Greek Restaurant	Bakery	Café
16	JOINQUIL	Hot Dog Joint	Music Venue	Coffee Shop	Sandwich Place	Pizza Place	Theater	Pub	Sushi Restaurant	Bar	Gym / Fitness Center
20	KENWOOD COMM.	Bus Station	Other Great Outdoors	Pizza Place	Gym	Park	Caribbean Restaurant	Dog Run	Fish Market	Fast Food Restaurant	Farmers Market
28	SKINNER (MARK)	Intersection	Bar	Donut Shop	Mobile Phone Shop	Sports Bar	Dance Studio	Yoga Studio	Cosmetics Shop	Sandwich Place	Café
31	TREBES	Yoga Studio	Spa	Japanese Restaurant	Pizza Place	Coffee Shop	Restaurant	Salon / Barbershop	Fish Market	Café	Burger Joint
33	WELLES (GIDEON)	Bar	Pizza Place	Chinese Restaurant	American Restaurant	Breakfast Spot	Bus Station	Mexican Restaurant	Rental Car Location	Pub	Grocery Store
34	WICKER (CHARLES, JOEL)	Pizza Place	Bar	Boutique	Clothing Store	Coffee Shop	Bookstore	Taco Place	Lounge	Ramen Restaurant	Korean Restaurant