

Capstone Project

The Battle of Neighborhoods

Introduction

1. Background: Many people are looking for a better city to move to due to there are high tax, high house sale prices, high house rental prices, poor housing, crowded city, educational quality declining, and poor security.

2. Problem: How can we tell which city will be an optimal city to move to based on these criteria? Which location of the optimal city will be the better place to live in? What popular venues are around this location? What are the houses' sale prices or rental prices around this location?

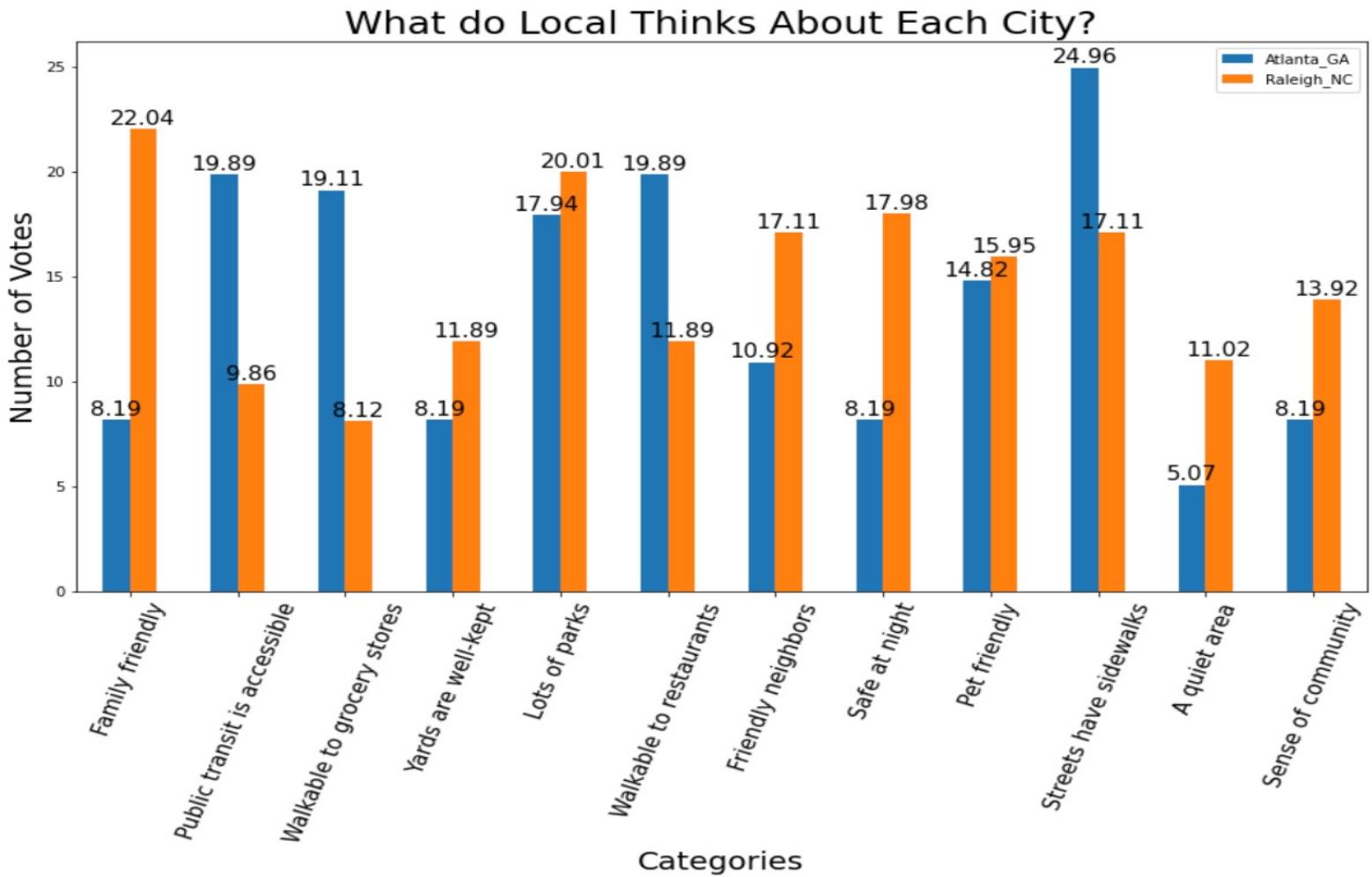
Which is the Optimal City?

Atlanta, GA



Raleigh, NC

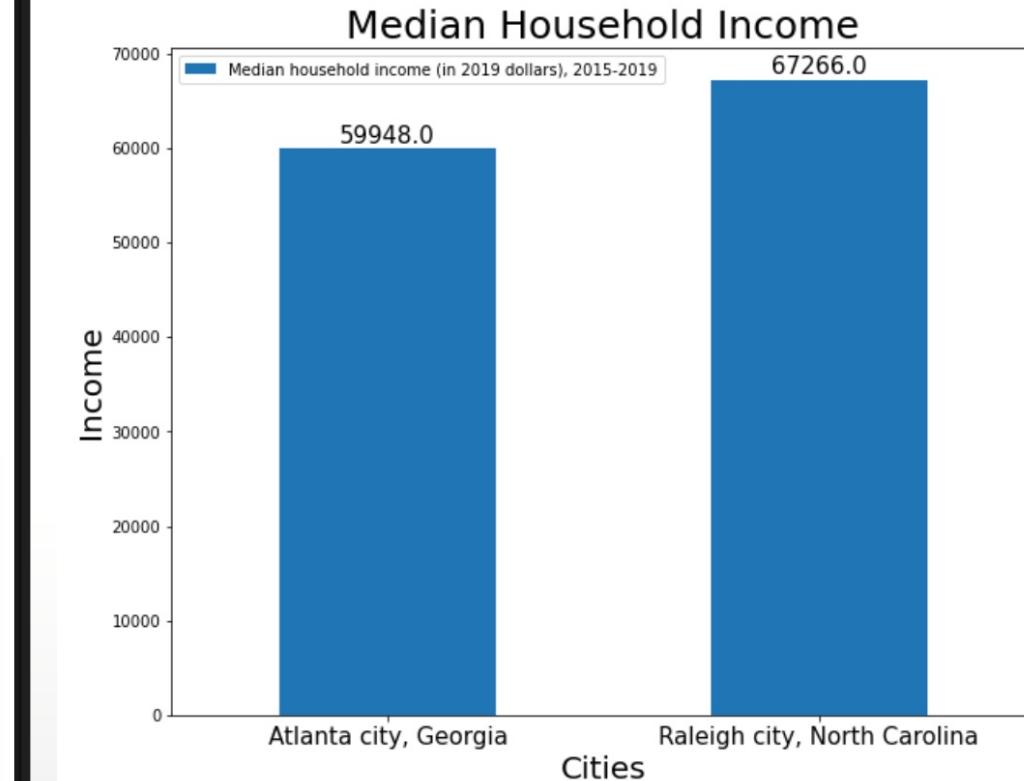
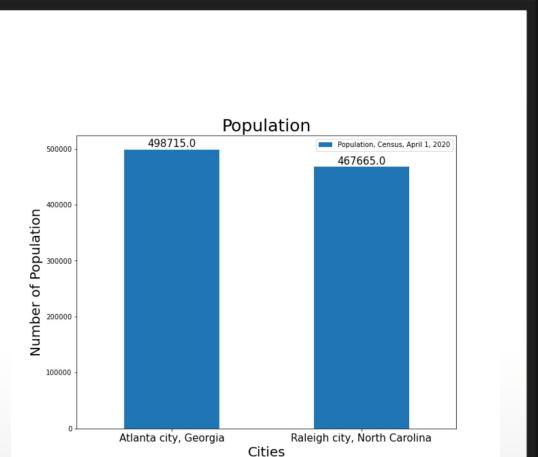
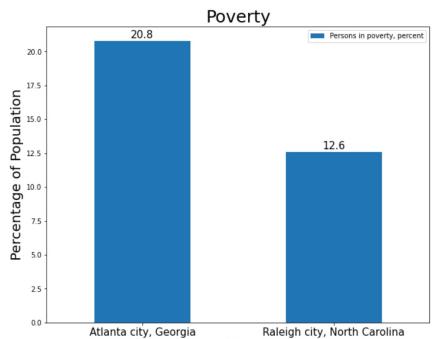




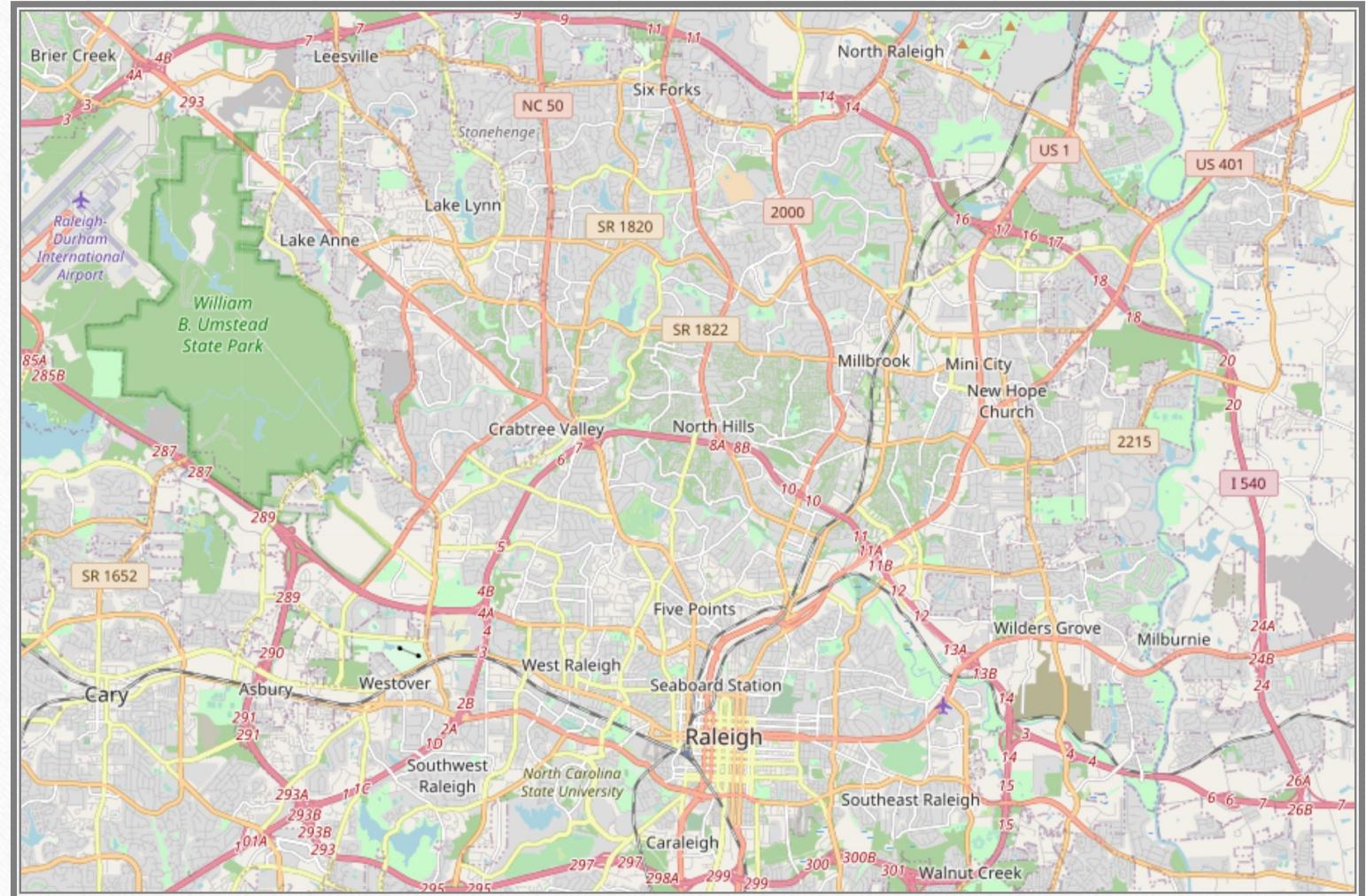
Raleigh, NC is more optimal.

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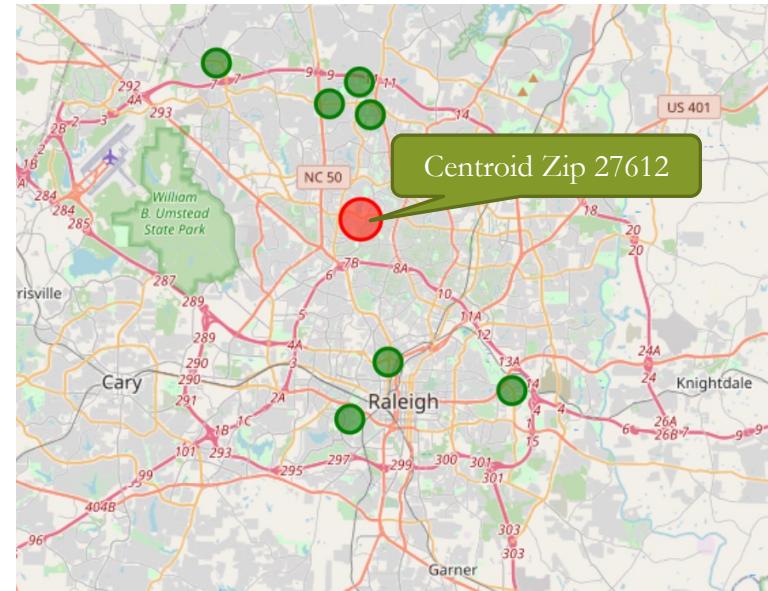
	Livability	Amenities	Cost of Living	Crime	Employment	Housing	Schools	User Ratings
Atlanta_GA	62	A+	D+	F	D	C+	F	D+
Raleigh_NC	78	A+	D+	B	C	B-	C+	D+



Which Area is Optimal in Raleigh City?



	Name	Grades	Students	Proficiency	Address
0	Raleigh Charter High School	9 - 12	559	94%	1307 Glenwood Avenue, Raleigh NC, 27605
1	Magellan Charter	3 - 8	406	92%	9324 Baileywick Road, Raleigh NC, 27615
2	Quest Academy	KG - 8	144	91%	10908 Strickland Road, Raleigh NC, 27615
3	Wake Early College Of Health And Science	9 - 13	309	80%	2901 Holston Lane, Raleigh NC, 27610
4	Envision Science Academy	KG - 6	252	80%	9400 Forum Dr, Raleigh NC, 27615
5	Wake Stem Early College High School	9 - 12	208	80%	715 Barbour Dr, Raleigh NC, 27603
6	Sycamore Creek Elementary	PK - 5	1,132	78%	10921 Leesville Rd, Raleigh NC, 27613



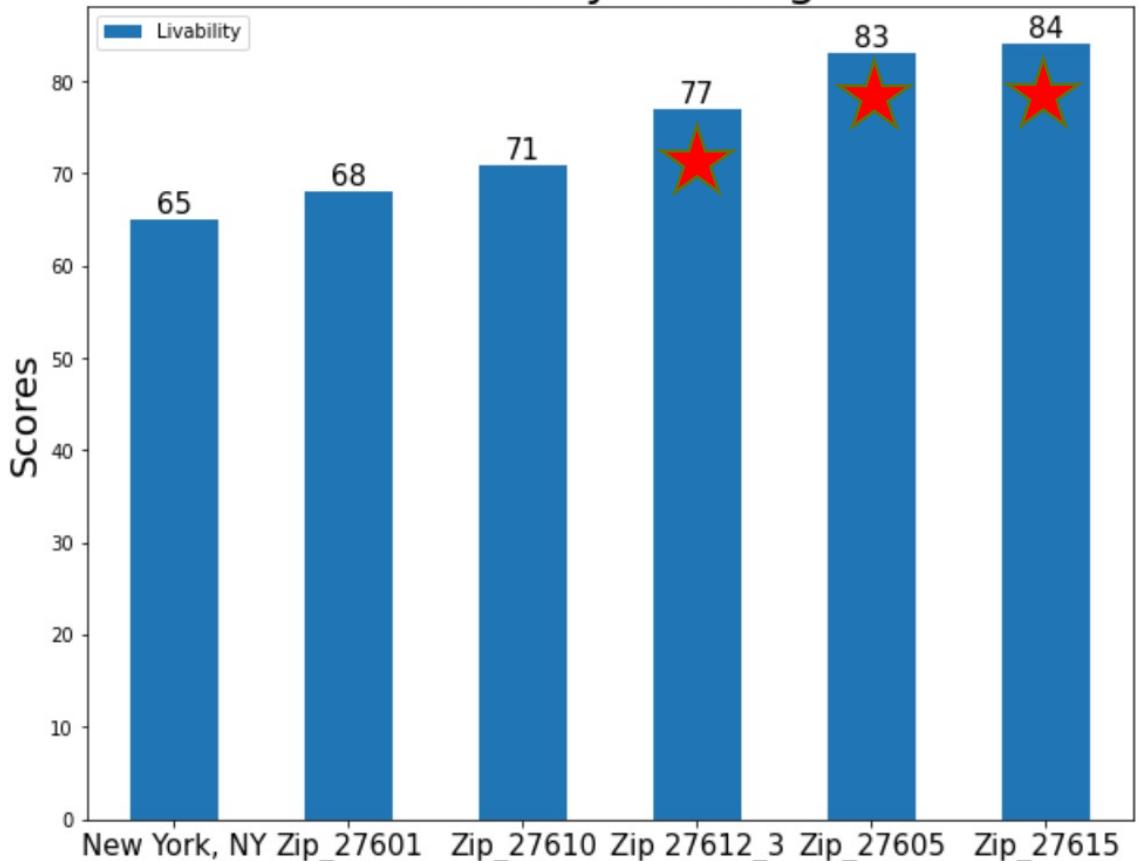
Top-Rated Schools

Which Area is Optimal?

	Livability	Amenities	Cost of Living	Crime	Employment	Housing	Schools
New York, NY	65	A+	F	F	C-	D+	D
Zip_27601	68	A+	D	F	D-	C-	B
Zip_27610	71	C	B-	C+	D-	C+	F
Zip_27612_3	77	B+	F	A+	B	F	A-
Zip_27605	83	A+	D	B+	C	B+	C
Zip_27615	84	A+	D-	A+	B	F	B+

★ ★ ★
Let's take a closer look at zip
27612_3, 27605, and 27615

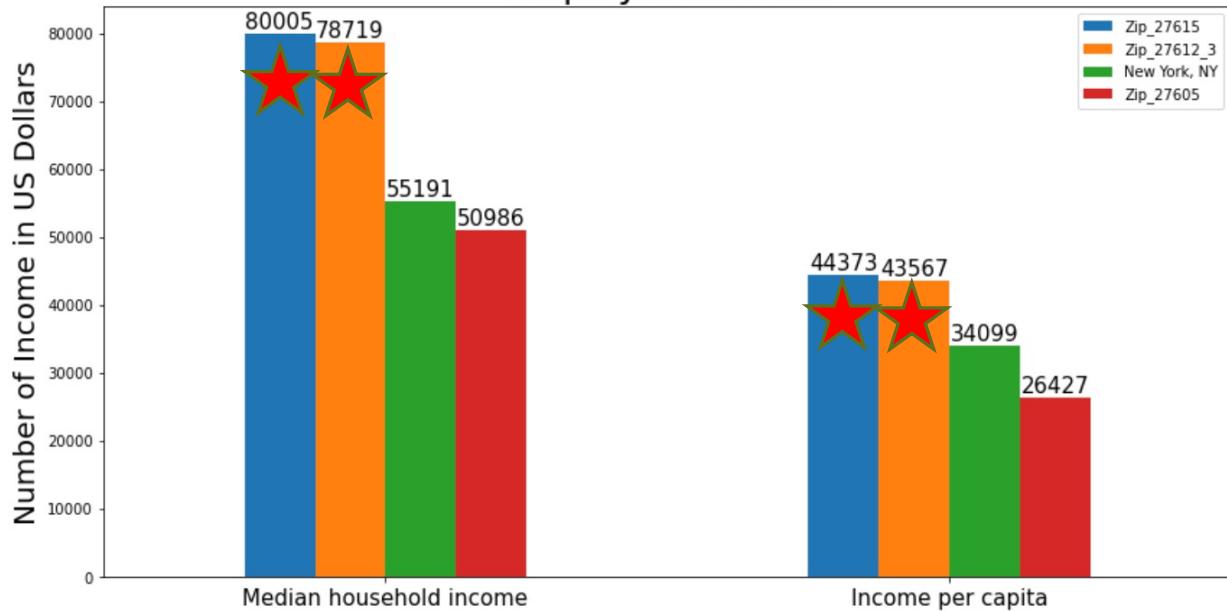
Livability's Rating



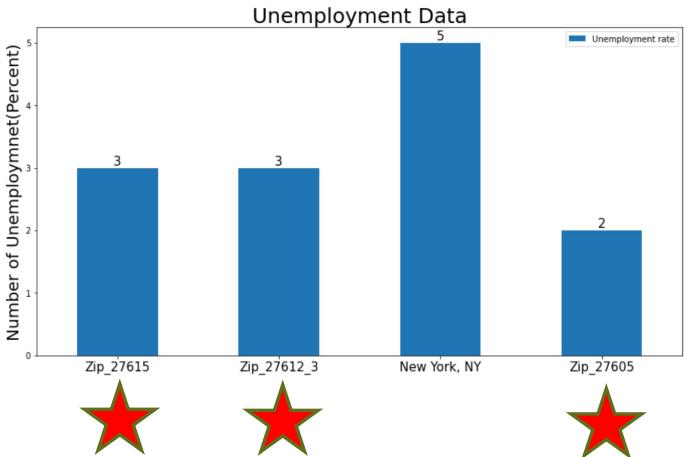
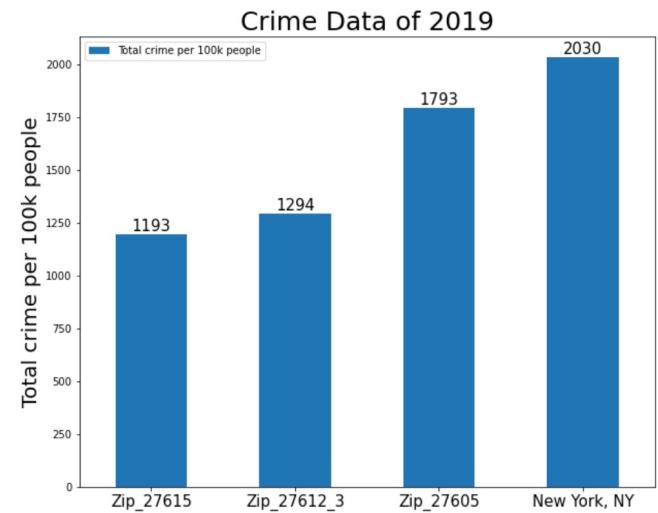


	Cost of Living	Median home value	Median rent price	Home ownership
Zip_27605	104	\$256,791	\$642	20%
Zip_27615	108	\$266,389	\$873	63%
Zip_27612_3	110	\$279,428	\$973	52%
New York, NY	161	\$508,900	\$1,294	32%

Employment Data



Zip 27612_3 and 27615 are most optimal areas.



What are the Popular Spots Around These Areas?

categories	Trail	Park	Supermarket	Pizza Place	Cosmetics Shop	Hotel	Track	Social Club	Sandwich Place	Pool	...	Frozen Yogurt Shop	Fried Chicken Joint	Fast Food Restaurant	Coffee Shop	Chinese Restaurant
counts	4	4	2	2	2	1	1	1	1	1	...	1	1	1	1	1

1 rows × 25 columns

[The Most Common Venues Near This Zip Code 27612](#)

categories	Pizza Place	Café	Supermarket	Donut Shop	Mexican Restaurant	Discount Store	American Restaurant	Shipping Store	Poke Place	Pool	...	Golf Course	Flower Shop	Fast Food Restaurant	Farmers Market	Campground
counts	4	3	3	3	2	2	1	1	1	1	...	1	1	1	1	1

1 rows × 36 columns

[The Most Common Venues Near This Zip Code 27613](#)

categories	American Restaurant	Shopping Mall	Pet Store	Pharmacy	Pub	Gourmet Shop	Sandwich Place	Mediterranean Restaurant	Furniture / Home Store	Spa	...	Dessert Shop	French Restaurant	Lawyer	Cleaning Service
counts	2	2	2	2	2	2	2	2	2	2	...	1	1	1	1

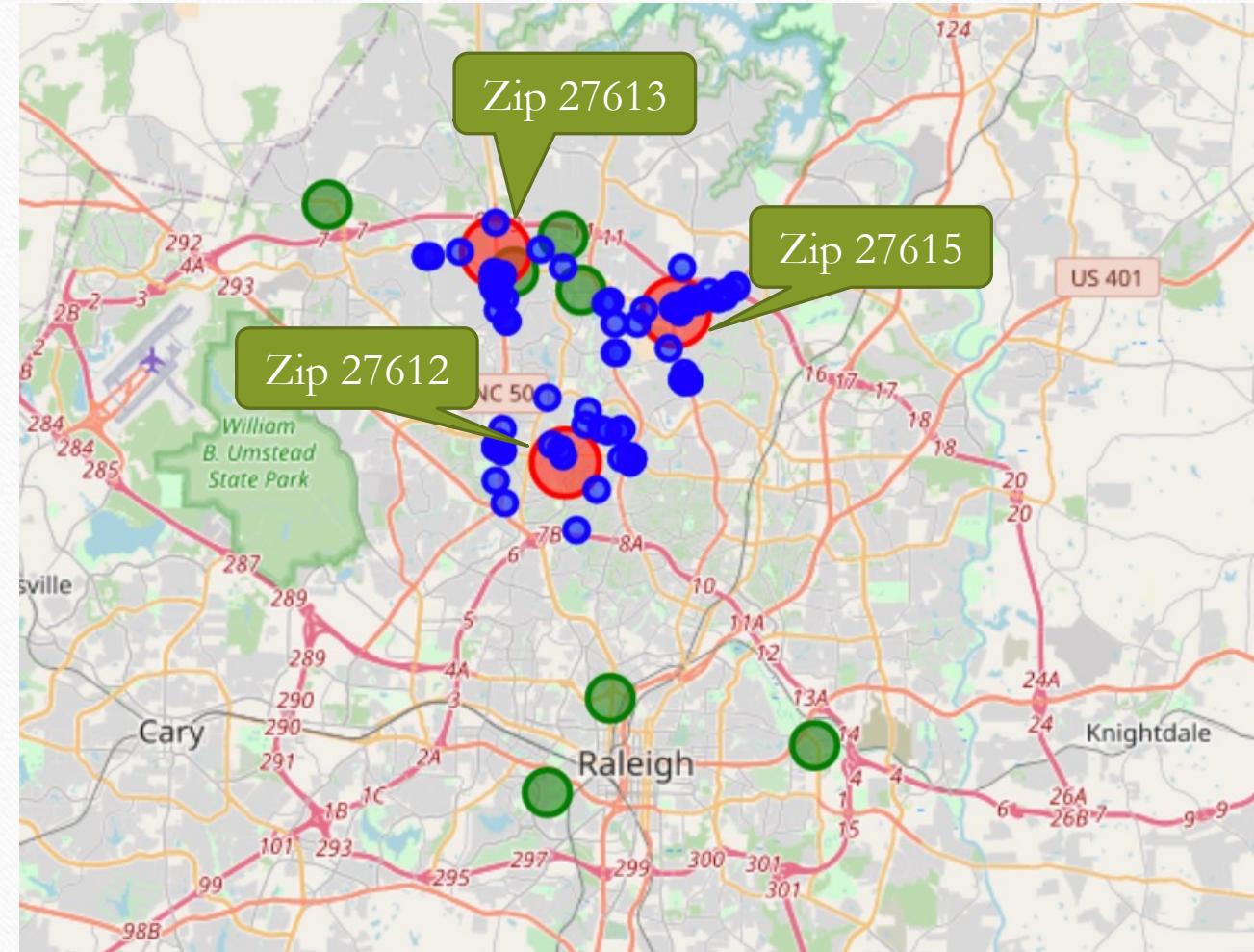
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[The Most Common Venues Near This Zip Code 27615](#)

Where are the Popular Spots Around These Areas?

Color Code Chart for Reading the Map

Facts	Colored Markers
Centroids	red
Top Rated Schools	green
Popular Spots	blue



Houses for Sale Nearby Zip 27615

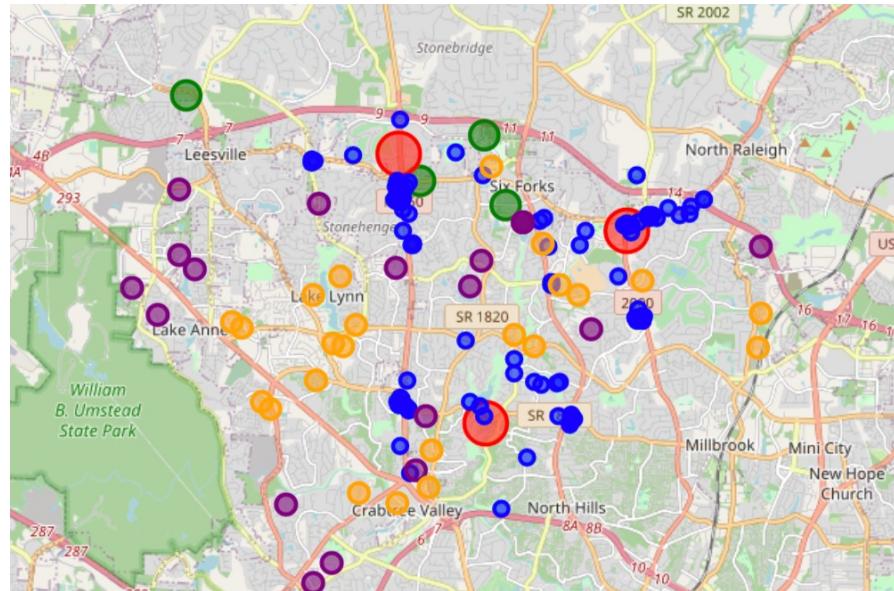
	SalePrices	Features	Address	List_Link
0	\$360,000	3 bds, 3 ba, 2,213 sqft, Coming soon	530 Weathergreen Dr, Raleigh, NC 27615	https://www.zillow.com/homedetails/530-Weathergreen-Dr-Raleigh-NC-27615/6478013_zpid/
1	\$350,000	4 bds, 3 ba, 2,112 sqft, Coming soon	9320 Carisbrook Ct, Raleigh, NC 27615	https://www.zillow.com/homedetails/9320-Carisbrook-Ct-Raleigh-NC-27615/6531083_zpid/
2	\$265,000	3 bds, 2 ba, 1,522 sqft, House for sale	313 Crown Oaks Dr, Raleigh, NC 27615	https://www.zillow.com/homedetails/313-Crown-Oaks-Dr-Raleigh-NC-27615/6466653_zpid/
3	\$279,900	3 bds, 3 ba, 2,268 sqft, Condo for sale	6529 New Market Way #1, Raleigh, NC 27615	https://www.zillow.com/homedetails/6529-New-Market-Way-1-Raleigh-NC-27615/2068606066_zpid/
4	\$275,000	3 bds, 2 ba, 1,382 sqft, Coming soon	7937 Brown Bark Pl, Raleigh, NC 27615	https://www.zillow.com/homedetails/7937-Brown-Bark-Pl-Raleigh-NC-27615/6470905_zpid/
5	\$250,000	2 bds, 3 ba, 1,543 sqft, Coming soon	900 Bridge Way, Raleigh, NC 27615	https://www.zillow.com/homedetails/900-Bridge-Way-Raleigh-NC-27615/6471478_zpid/
6	\$589,000	4 bds, 3 ba, 3,771 sqft, House for sale	2301 Valley Forge Dr, Raleigh, NC 27615	https://www.zillow.com/homedetails/2301-Valley-Forge-Dr-Raleigh-NC-27615/6460853_zpid/
7	\$425,000	3 bds, 2 ba, 1,314 sqft, House for sale	7405 Valley Run Dr, Raleigh, NC 27615	https://www.zillow.com/homedetails/7405-Valley-Run-Dr-Raleigh-NC-27615/6468550_zpid/
8	\$409,900	3 bds, 2 ba, 1,470 sqft, Coming soon	6729 Van Haven Dr, Raleigh, NC 27615	https://www.zillow.com/homedetails/6729-Van-Haven-Dr-Raleigh-NC-27615/6441056_zpid/

Houses for Rent Nearby Zip 27615

	Features	Address	List_Link
0	\$1,170+/mo 1 bd1 ba, 690 sqft, Apartment for rent	7303 Bryn Athyn Way #5KWCKJ3BB, Raleigh, NC 27615	https://www.zillow.com/homedetails/7303-Bryn-Athyn-Way-5KWCKJ3BB-Raleigh-NC-27615/2090957290_zpid/
1	\$1,800/mo 4 bds, 2.5 ba, 2,250 sqft, Townhouse for rent	747 Weathergreen Dr, Raleigh, NC 27615	https://www.zillow.com/homedetails/747-Weathergreen-Dr-Raleigh-NC-27615/6469824_zpid/
2	\$1,455/mo 3 bds, 2.5 ba, 1,383 sqft, House for rent	7223 Sandy Creek Dr, Raleigh, NC 27615	https://www.zillow.com/homedetails/7223-Sandy-Creek-Dr-Raleigh-NC-27615/132229950_zpid/
3	1,4401bd,1,295+ 2 bds,	2525 Pavilion Pl, Raleigh, NC	https://www.zillow.com/b/legacy-north-pointe-apartments-raleigh-nc-5Xhyfr/
4	\$1,700/mo 3 bds, 3 ba, 1,520 sqft, Townhouse for rent	102 Wythe Cir, Raleigh, NC 27615	https://www.zillow.com/homedetails/102-Wythe-Cir-Raleigh-NC-27615/6469817_zpid/
5	1,265 + 1bd,1,710+ 2 bds, \$1,755 3 bds,	8810 Autumn Winds Dr, Raleigh, NC	https://www.zillow.com/b/the-village-apartments-raleigh-nc-5XhyjX/
6	1,438 + 1bd,1,599+ 2 bds, \$1,946 3 bds,	110 Talisman Way, Raleigh, NC	https://www.zillow.com/b/junction-six-forks-raleigh-nc-5g3RJr/
7	\$1,295/mo 2 bds, 1.5 ba, 1,250 sqft, Townhouse for rent	7205 Harps Mill Rd, Raleigh, NC 27615	https://www.zillow.com/homedetails/7205-Harps-Mill-Rd-Raleigh-NC-27615/50098649_zpid/
8	\$1,795/mo 3 bds, 2.5 ba, 1,607 sqft, Townhouse for rent	7004 Racine Way, Raleigh, NC 27615	https://www.zillow.com/homedetails/7004-Racine-Way-Raleigh-NC-27615/82676290_zpid/

Color Code Chart for Reading the Map

Facts	Colored Markers
Centroids	red
Top Rated Schools	green
Popular Spots	blue
Houses for Sale	purple
Houses for Rent	orange

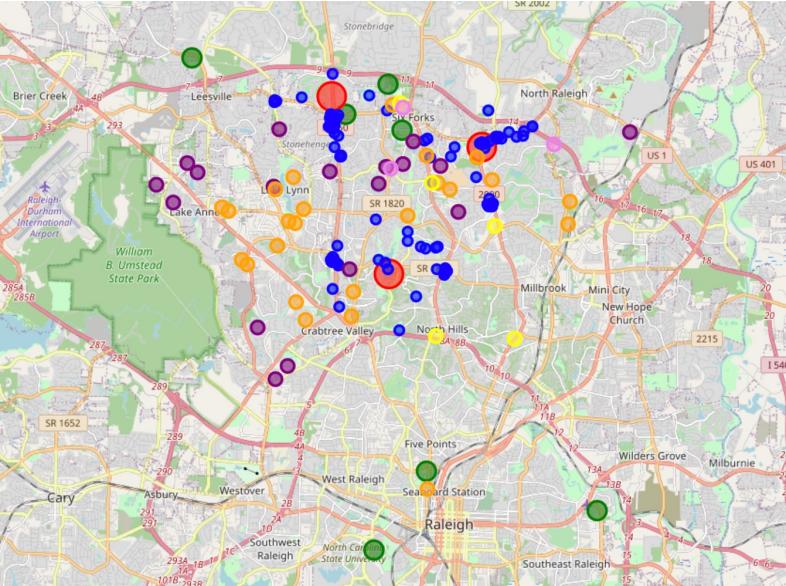


Look at These Houses on the Map

Italian Restaurants and Chinese Restaurants

	id	name	categories	address	lat	lng	labeledLatLngs	distance	postalCode	cc	city	state	country	formattedAddress	crossStreet
0	4b760c30f964a5200e392ee3	Nina's Ristorante	Italian Restaurant	8801 Lead Mine Rd	35.905173	-78.656968	[{"label": "display", "lat": 35.90517346208298..., "lng": -78.656968}	3062	27615	US	Raleigh	NC	United States	[8801 Lead Mine Rd, Raleigh, NC 27615]	NaN
1	4f7de2276b7478c17cbc5ad5	Vesuvios Italian Kitchen	Italian Restaurant	7400 Six Forks Rd	35.881573	-78.645271	[{"label": "entrance", "lat": 35.881263, "lng": -78.645271}	2011	27615	US	Raleigh	NC	United States	[7400 Six Forks Rd, Raleigh, NC 27615]	NaN
2	4b326152f964a520120a25e3	Italian Kitchen	Italian Restaurant	4005 Wake Forest Rd	35.835394	-78.615093	[{"label": "display", "lat": 35.83539367449622..., "lng": -78.615093}	6400	27609	US	Raleigh	NC	United States	[4005 Wake Forest Rd, Raleigh, NC 27609]	NaN
3	4e9f414e93add232e748d496	Mia Francesca Trattoria	Italian Restaurant	4100 Main At North Hills St	35.836218	-78.643951	[{"label": "display", "lat": 35.8362182367447, "lng": -78.643951}	6399	27609	US	Raleigh	NC	United States	[4100 Main At North Hills St (in North Hills),...]	in North Hills
4	4c6ab44f3d8bc9b605118d90	Capri Restaurant	Italian Restaurant	6325-17 Falls of Neuse Rd	35.868659	-78.622269	[{"label": "display", "lat": 35.86865910463733..., "lng": -78.622269}	2641	27615	US	Raleigh	NC	United States	[6325-17 Falls of Neuse Rd, Raleigh, NC 27615]	NaN

	id	name	categories	address	lat	lng	labeledLatLngs	distance	postalCode	cc	city	state	country	formattedAddress	crossStreet
0	4f328ad219836c91c7e1f9cf	Eastern Chinese Restaurant	Chinese Restaurant	9650 Strickland Rd	35.903823	-78.656052	[{"label": "display", "lat": 35.90382299999999..., "lng": -78.656052}	2919	27615	US	Raleigh	NC	United States	[9650 Strickland Rd, Raleigh, NC 27615]	NaN
1	4b9ae20af964a5203fdf35e3	King's Wok	Chinese Restaurant	8320-160 Litchford Rd	35.892808	-78.600528	[{"label": "display", "lat": 35.89280830722444..., "lng": -78.600528}	2399	27615	US	Raleigh	NC	United States	[8320-160 Litchford Rd (Harps Mill), Raleigh, ...]	Harps Mill
2	4ae095a9f964a5209f8021e3	Imperial Garden	Chinese Restaurant	7713-15 Lead Mine Rd	35.885736	-78.660382	[{"label": "display", "lat": 35.88573590705047..., "lng": -78.660382}	3081	27615	US	Raleigh	NC	United States	[7713-15 Lead Mine Rd, Raleigh, NC 27615]	NaN



Color Code Chart for Reading the Map

Facts	Colored Markers
Centroids	red
Top Rated Schools	green
Popular Spots	blue
Houses for Sale	purple
Houses for Rent	orange
Italian Restaurant	yellow
Chinese Restaurant	pink

Look at These Restaurants on the Map

Conclusion

- ❖ The Raleigh city, NC is more optimal city to move to than Atlanta, NC.
- ❖ Zip 27612, 27613, and 27615 are the most optimal areas to live in.
- ❖ To be better help more people in the future
 - Study more cities and compare
 - Each neighborhood or zip code in the optimal city should be considered for comparison and analysis