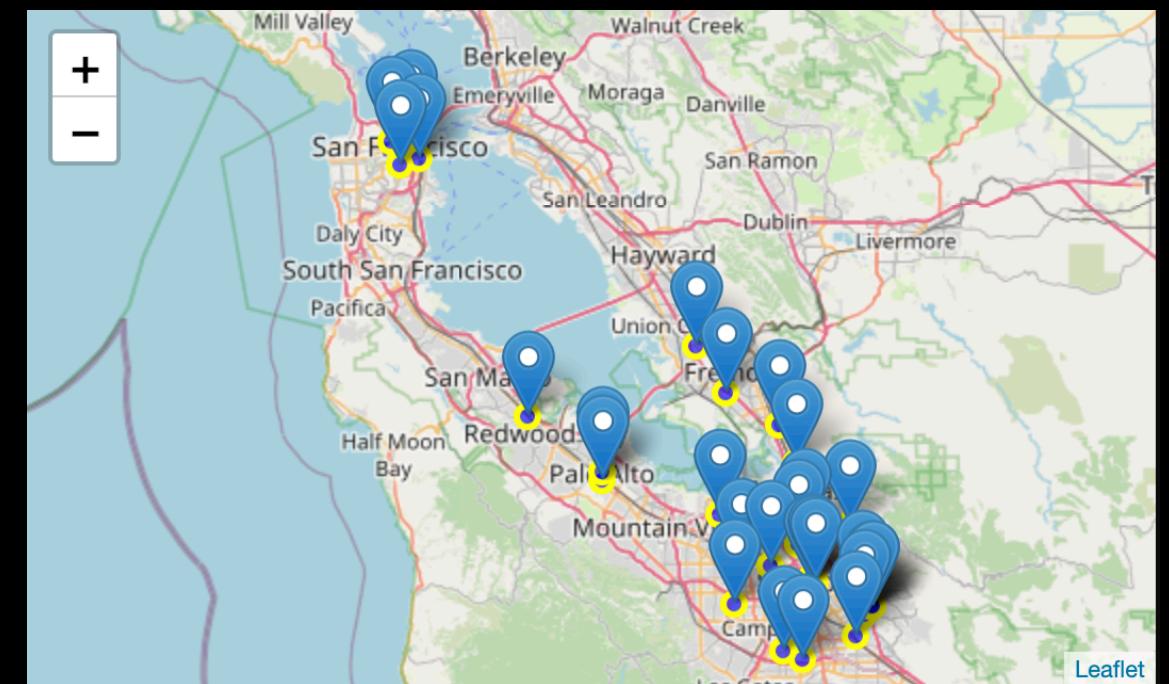


# BOBA IN THE BAY AREA

Discovering Boba shops within the Bay area region

- There are 51 Boba shops total
- The boba shops are all cluster together in specific regions within the Bay Area

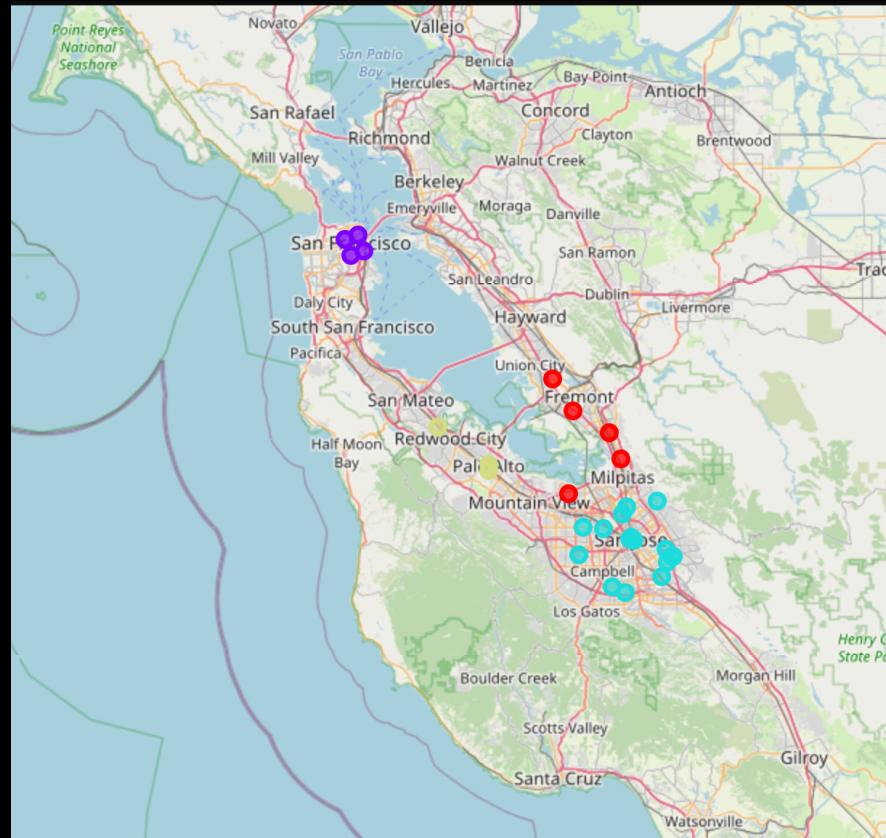


# SAMPLE OF DATA EXTRACTED FROM FOLIUM

	<b>name</b>	<b>categories</b>	<b>address</b>	<b>lat</b>	<b>lng</b>	<b>postalCode</b>	<b>formattedAddress</b>	<b>id</b>	<b>distance</b>	<b>city</b>
0	Boba Bar Teahouse & Eatery	Bubble Tea Shop	310 S 3rd St	37.332368	-121.884731	95112	[310 S 3rd St (at E San Carlos St), San Jose, ...]	53cf2ef3498e1e5b6248251d	14017	San Jose
1	Boba Guys	Bubble Tea Shop	855 El Camino Real #120	37.438476	-122.159122	94301	[855 El Camino Real #120, Palo Alto, CA 94301]	5c3518fd2b274a002c12c626	13340	Palo Alto
2	Boba Drive	Bubble Tea Shop	Nan	37.403202	-122.008931	94089	[Sunnyvale, CA 94089]	5c561c556adbf5002c7597d2	4530	Sunnyvale
3	Boba Guys	Bubble Tea Shop	1002 16th St	37.766448	-122.397042	94107	[1002 16th St (at Missouri St), San Francisco,...]	58d451f495383907dba37158	54516	San Francisco
4	Boba	Coffee Shop	1710 N Milpitas Blvd	37.455524	-121.910233	95035	[1710 N Milpitas Blvd, Milpitas, CA 95035]	4f32367a19836c91c7c14327	14747	Milpitas

# CLUSTER ANALYSIS

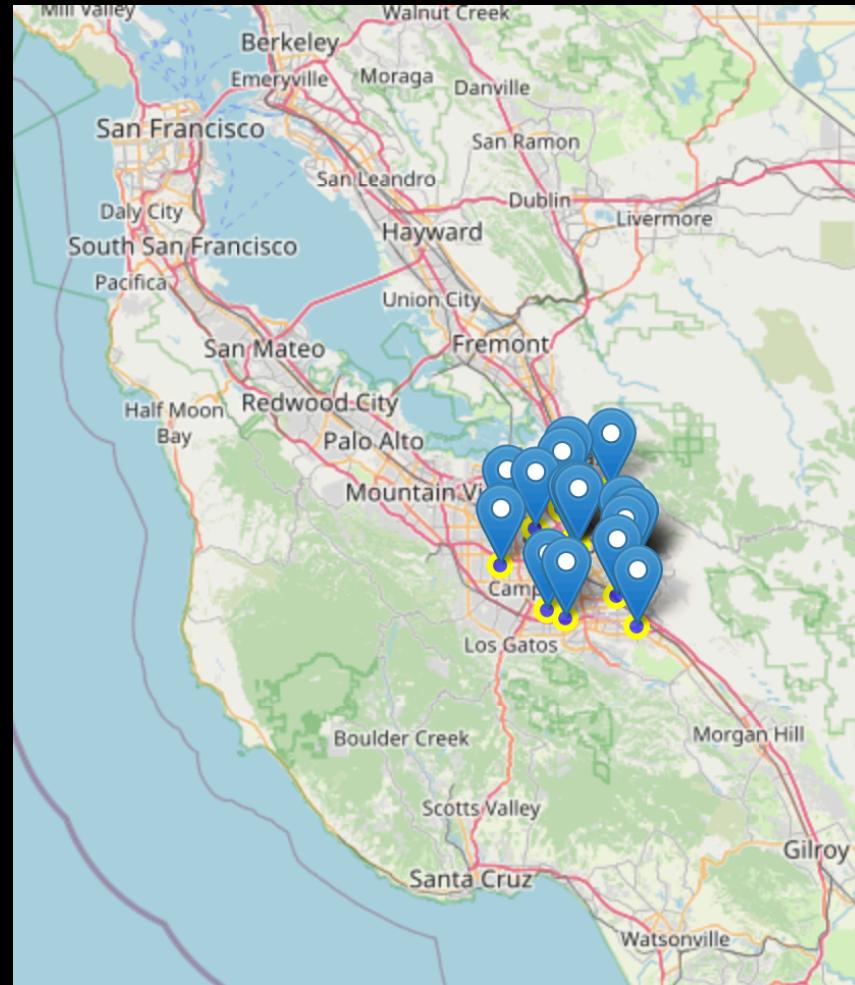
- We have total 4 cluster
- These cluster separate into 4 different regions
- The region are the 4 main city within the bay area



# MAIN CLUSTER DATABASE

		cluster label	name	categories	address	lat	lng	postalCode	formattedAddress	id	distance	city
0	0	0	Boba Bar Teahouse & Eatery	Bubble Tea Shop	310 S 3rd St	37.332368	-121.884731	95112	[310 S 3rd St (at E San Carlos St), San Jose, ...]	53cf2ef3498e1e5b6248251d	14017	San Jose
5	0	0	Boba Pub	Coffee Shop	NaN	37.253480	-121.901566	NaN	[San Jose, CA]	541dea34498e9ab326788618	17529	San Jose
7	0	0	Oh Boba	Bubble Tea Shop	NaN	37.350555	-121.944010	NaN	[Santa Clara, CA]	51c88905498e52a0369b41ce	8419	Santa Clara
9	0	0	WeBoba	Bubble Tea Shop	3030 El Camino Real	37.351721	-121.981472	95051	[3030 El Camino Real, Santa Clara, CA 95051]	5c1716ef182223002545125c	5215	Santa Clara
10	0	0	Bobaholics	Bubble Tea Shop	1055 E Brokaw Rd #40	37.384296	-121.897496	95131	[1055 E Brokaw Rd #40, San Jose, CA 95131]	5c05bff1b3c961002cc92c23	12403	San Jose

# CLUSTER POINT WITH MOST BOBA SHOP



# DISCUSSION AND CONCLUSION

- After using folium map and foursquare API for exploration of the boba shop, we finalize that The city of San Jose within the bay region have the most boba shop.
- The purpose of this project is to explore and guide user in finding the boba shops within the bay area region. By using clustering analysis to evaluate region with most density of boba shop closest to it random central point, which is the city of San Jose.
- This guide will help those boba enthusiastic who traveling to the bay area and looking for a quick boba fix.