

Comparison of young kids teaching facilities in San Jose and Fremont california

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San Jose Public Library is the largest public library system between San Francisco and Los Angeles. Its central library, Dr. Martin Luther King Jr. Library, is also the main library of the San Jose State University. As the result of a bond measure passed in November 2000, a number of new branches opened.



METHOD-SAN JOSE

- **Latitude longitude acquire**
- `city1 = 'San Jose, CA'`
- `geolocator1 = Nominatim(user_agent="foursquare_agent")`
- `location1 = geolocator1.geocode(city1)`
- `latitude1 = location1.latitude`
- `longitude1 = location1.longitude`
- `print('San Jose',latitude1, longitude1)`

METHOD-SAN JOSE

- `search_query1 = 'library'`
- `LIMIT = 50`
- `radius = 5000`
- `url1 = 'https://api.foursquare.com/v2/venues/search?client_id={}&client_secret={}&ll={},{}&v={}&query={}&radius={}&limit={}'.format(`
- `CLIENT_ID,`
- `CLIENT_SECRET,`
- `latitude1,`
- `longitude1,`
- `VERSION,`
- `search_query1,results1 = requests.get(url1).json()`
- `results1 = requests.get(url1).json()`
- `sanJose = results1['response']['venues']`

METHOD- FREMONT

- **Latitude longitude acquire**
- `city2 = 'Fremont, California'`
- `geolocator2 = Nominatim(user_agent="foursquare_agent")`
- `location2 = geolocator2.geocode(city2)`
- `latitude2 = location2.latitude`
- `longitude2 = location2.longitude`
- `print('Fremont',latitude2,longitude2)`

METHOD- FREMONT

- **search_query2 = 'library'**
- **LIMIT = 50**
- **radius = 5000**
- **url2 = 'https://api.foursquare.com/v2/venues/search?client_id={} &client_secret={} &ll={},{} &v={} &query={} &radius={} &limit={}'.format(**
- **CLIENT_ID,**
- **CLIENT_SECRET,**
- **latitude2,**
- **longitude2,**
- **VERSION,**
- **search_query2,**
- **fremont = results2['response']['venues']**
- **df2 = json_normalize(fremont)**

San Jose library data retrieved from Foursquare API

	id	name	categories	referralId	hasPerk	location.address	location.crossStreet	location.lat	location.lng	location.label
0	4a3a3154f964a520cbcc1fe3	Dr. Martin Luther King, Jr. Library	[[{"id": "4bf59dd8d48988d1a7941735", "name": "C..."}]]	v-1577470900	False	150 E San Fernando St	at S. 4th St.	37.335467	-121.885000	[{"label": "display", "lat": 37.33546749, "lng": -121.88500000}]
1	4b5f98a2f964a520a8c329e3	Joyce Ellington Branch Library	[[{"id": "4bf58dd8d48988d12f941735", "name": "L..."}]]	v-1577470900	False	491 E Empire St	NaN	37.349781	-121.887064	[{"label": "display", "lat": 37.3497807, "lng": -121.887064}]
2	59cd8c9b6eda021ecf132466	MLKJ Library TeenHQ	[[{"id": "4bf58dd8d48988d12f941735", "name": "L..."}]]	v-1577470900	False	Dr Martin Luther King Jr Library	San Fernando St	37.335808	-121.885095	[{"label": "display", "lat": 37.335808, "lng": -121.885095}]
3	4a43dc51f964a520e5a61fe3	Rose Garden Branch Library	[[{"id": "4bf58dd8d48988d12f941735", "name": "L..."}]]	v-1577470900	False	1530 Naglee Ave	at Dana Ave	37.331965	-121.926273	[{"label": "display", "lat": 37.33196529, "lng": -121.926273}]
4	4beca5120ddaa59366e21dc3	Bascom Branch Library & Community Center	[[{"id": "4bf58dd8d48988d12f941735", "name": "L..."}]]	v-1577470900	False	1000 S Bascom Ave	btwn Fruitdale Ave. & Leon Dr.	37.307161	-121.931298	[{"label": "display", "lat": 37.30716128, "lng": -121.931298}]

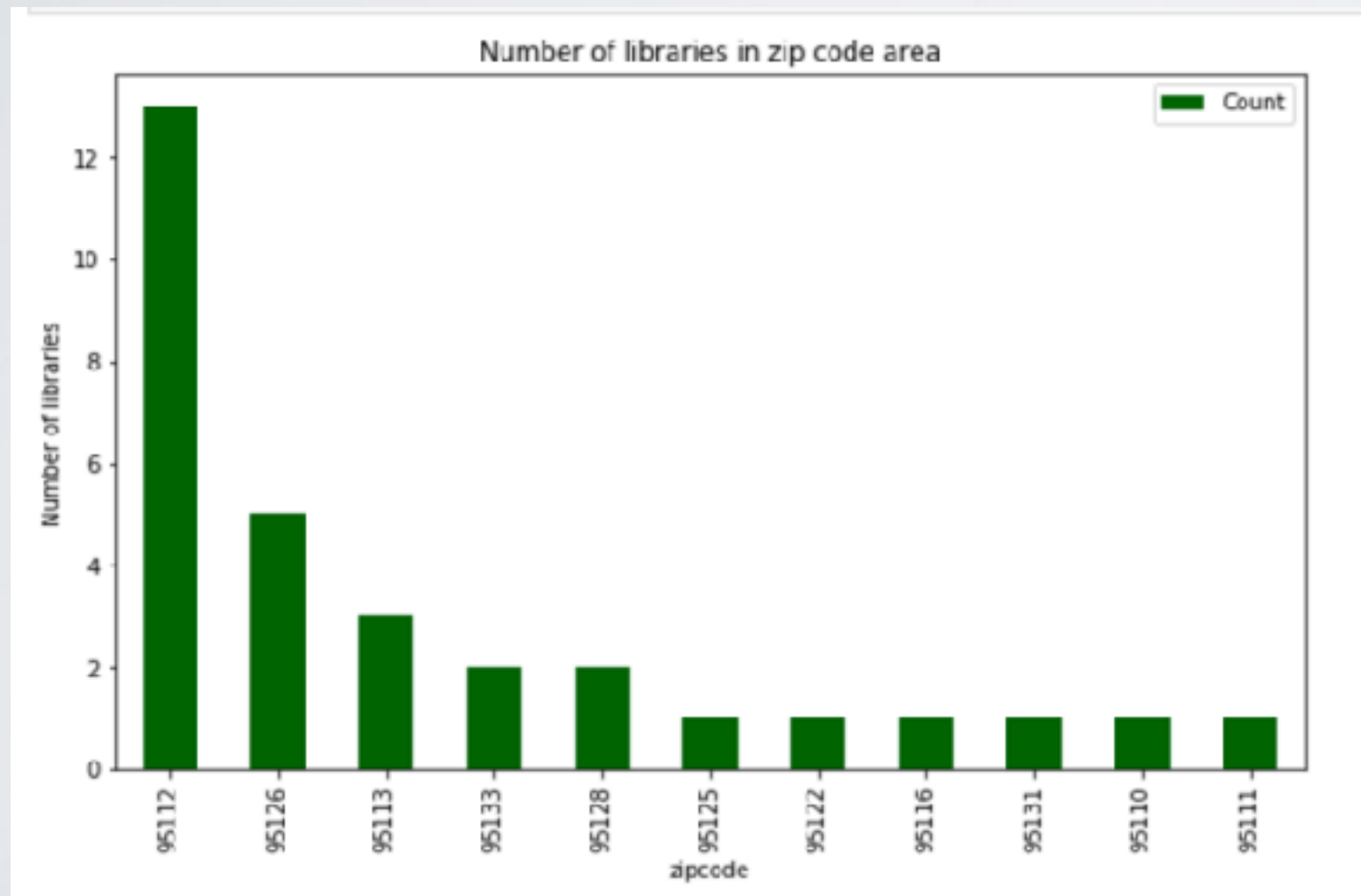
35 libraries are found in San Jose in 5 zip code areas

Fremont library data retrieved from Foursquare API

	id	name	categories	referralId	hasPerk	location.address	location.lat	location.lng	location.labeledLatLngs	location.d
0	4af5169ef964a52083ff21e3	Fremont Main Library	[{'id': '4bf53dd3d48988d12f941735', 'name': 'L...'}]	v-1577470906	False	2400 Stevenson Blvd	37.550895	-121.971139	[{'label': 'display', 'lat': 37.55089490542579...}]	
1	4fed6ec6e4b0283e9a18f854	Fremont Main Library	[{'id': '4bf53dd3d48988d12f941735', 'name': 'L...'}]	v-1577470906	False	NaN	37.550525	-121.984792	[{'label': 'display', 'lat': 37.55052529217357...}]	
2	4c006e6fad15a59363f16d73	Fremont Library	[{'id': '4bf53dd3d48988d12f941735', 'name': 'L...'}]	v-1577470906	False	NaN	37.549833	-121.983565	[{'label': 'display', 'lat': 37.54983258663893...}]	
3	5944163d4382ab30b28e7640	Jfk Library	[{'id': '4bf53dd3d48988d12f941735', 'name': 'L...'}]	v-1577470906	False	NaN	37.529193	-121.986432	[{'label': 'display', 'lat': 37.52919290360988...}]	
4	4b5f8f7df964a520b4c129e3	Irvington Library	[{'id': '4bf53dd3d48988d12f941735', 'name': 'L...'}]	v-1577470906	False	41325 Greenpark Dr	37.522423	-121.964885	[{'label': 'display', 'lat': 37.52242299999999...}]	

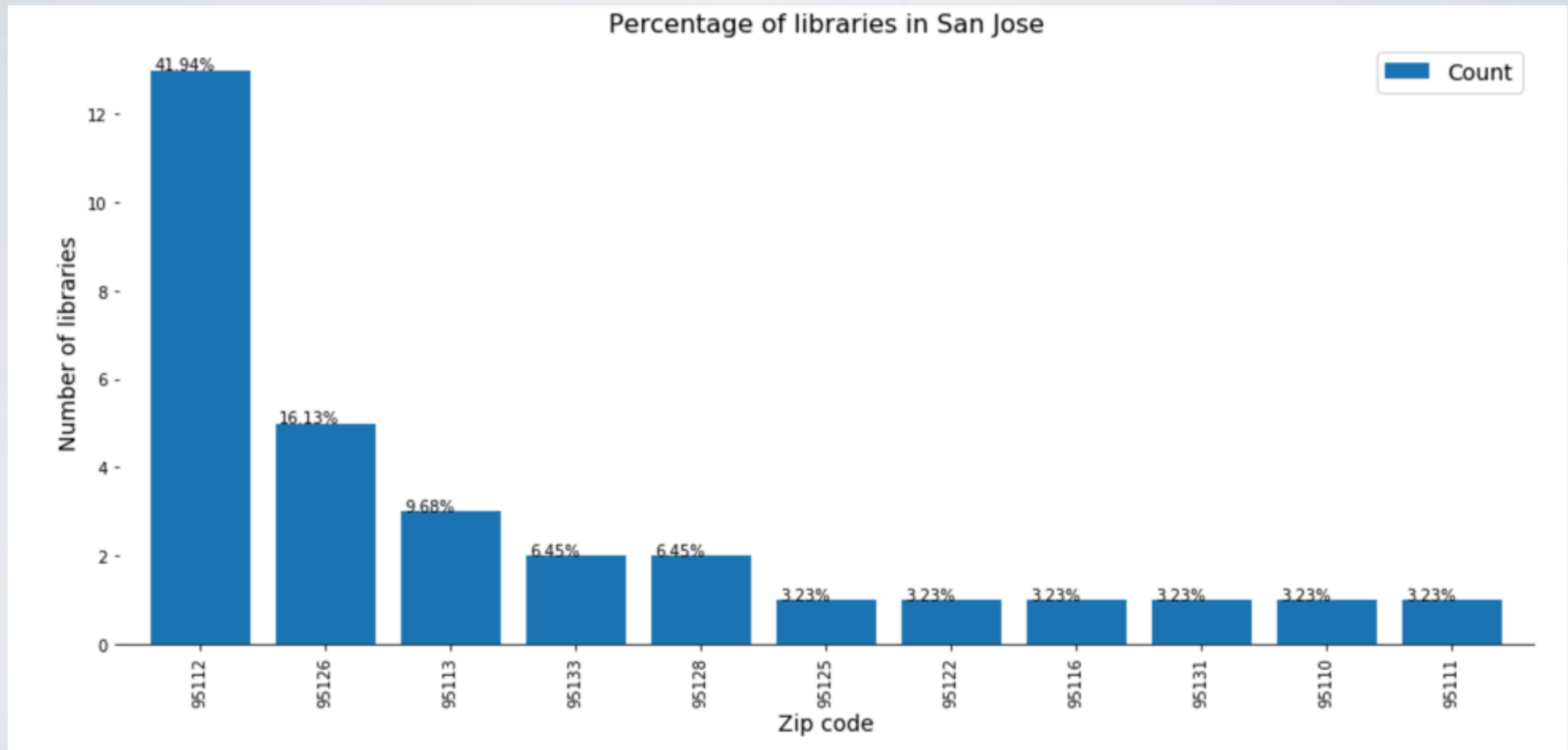
7 libraries were found in Fremont in 2 zip code areas

Library distribution in San Jose



Area with zip code 95112 has 13 libraries, which is 42% of all libraries in San Jose.

Library distribution in San Jose



Daycare facilities in San Jose CA

[30]:

	id	name	categories	referralId	hasPerk	location.lat	location.lng	location.labeledLatLngs	location.distance	location.post
0	4c7ed40afb13a1cd93e29ea4	Daycare	{id: '4f4532974b9074f6e4fb0104', name: 'D...	v-1577472972	False	37.369899	-121.850804	{label: 'display', lat: 37.369899, lng: ...	5144	
1	4f9ab968e4b0ad38548ed20d	Niki's Daycare	{id: '4f4532974b9074f6e4fb0104', name: 'D...	v-1577472972	False	37.300900	-121.896708	{label: 'display', lat: 37.30090013937539...	3965	
2	4fa4600fe4b0ac15cef2bbf2	Willow Glen Daycare	{id: '4f4532974b9074f6e4fb0104', name: 'D...	v-1577472972	False	37.309364	-121.913414	{label: 'display', lat: 37.30936431884765...	3605	
3	551057c5498e5529e6cb848d	ywca day care	{id: '4f4533814b9074f6e4fb0107', name: 'N...	v-1577472972	False	37.330736	-121.884786	{label: 'display', lat: 37.33073589118909...	794	
4	5595a7bf498ed14c4a6a363f	Diane's Daycare	{id: '4f4532974b9074f6e4fb0104', name: 'D...	v-1577472972	False	37.331000	-121.945370	{label: 'display', lat: 37.331, lng: -1...	4683	

Daycare facilities in Fremont CA

	id	name	categories	referralId	hasPerk	location.lat	location.lng	location.labeledLatLngs	location.distance	location.cc
0	4e0a1be97d8b2a01806cfaea	Lulus Daycare	[{"id": "4f4532974b9074f6e4fb0104", "name": "D..."}]	v-1577472982	False	37.538464	-121.991295	[{"label": "display", "lat": 37.538464, "lng": ...}]	1117	US
1	5049609fe4b0fbc28f19ed07	Little Angels Daycare	[{"id": "4f4532974b9074f6e4fb0104", "name": "D..."}]	v-1577472982	False	37.560503	-121.990445	[{"label": "display", "lat": 37.56050268415861...}]	1371	US
2	520df2d68bbd3cd4283313e3	Ereno Daycare and Preschool	[{"id": "4f4532974b9074f6e4fb0104", "name": "D..."}]	v-1577472982	False	37.560686	-121.990386	[{"label": "display", "lat": 37.560686, "lng": ...}]	1391	US
3	4bf3f3906a31d13a3026952e	Little Bunnies Daycare	[{"id": "4f4532974b9074f6e4fb0104", "name": "D..."}]	v-1577472982	False	37.534162	-121.986557	[{"label": "display", "lat": 37.534162, "lng": ...}]	1580	US
4	50039bd2e4b0d0fe1365b25a	Little People Daycare	[{"id": "4f4532974b9074f6e4fb0104", "name": "D..."}]	v-1577472982	False	37.533865	-121.979560	[{"label": "display", "lat": 37.53386500000000...}]	1790	US

LIBRARIES AND DAYCARE IN SAN JOSE

Zip code	Count
95112	13
95126	5
95113	3
95133	2
95128	2

Libraries

Zip code	Count
95125	2
95128	2
95133	1
95112	1
95122	1
95116	1

Daycare

LIBRARIES AND DAYCARE IN FREMONT

zip code	Count
94538	5
94536	2

Libraries

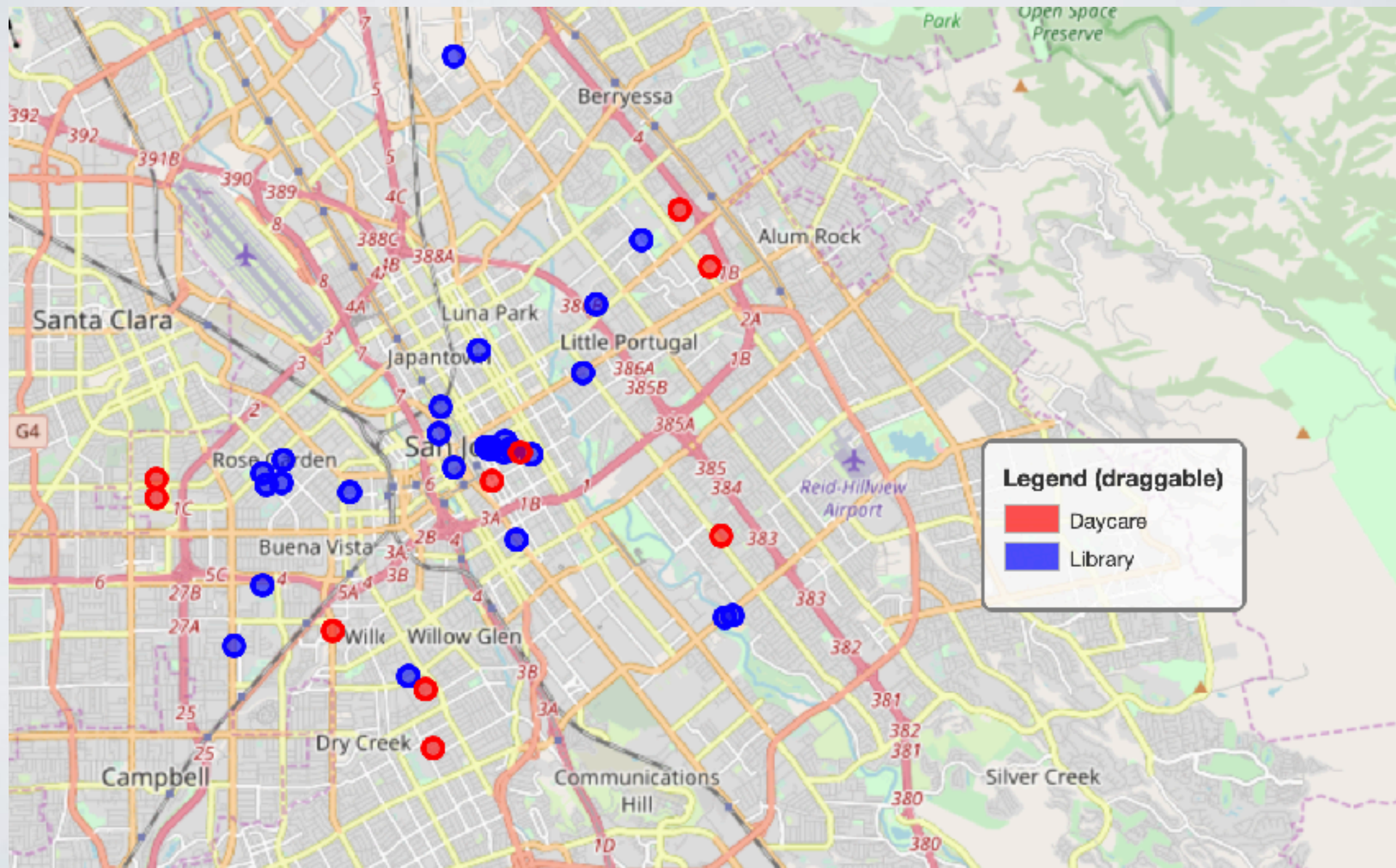
Zip code	Count
94536	3
94538	2
94587	1
94560	1
94555	1

Daycare

CONCLUSION

There are less daycare facilities than libraries in San Jose, less libraries than daycare in Fremont. The main reason is daycare is for kids less than five years old, while libraries are designed for toddler and kids, as a result, there is less demand in daycare than library.

Library and daycare distribution in San Jose



Library and daycare in Fremont

