

Capstone project – final presentation

Introduction and Business Problem

- A customer, Deepak, wants to open a new burger joint in Bogotá, Colombia.
- Due to Bogotá's high diversity and very large size, he asked me for help in order to find the best spot to place the burger joint.
- Bogotá has 20 different Localities (Districts) and we aim to find the best one.
- We need to choose a Locality that has good amount of customers and low amount of competition.

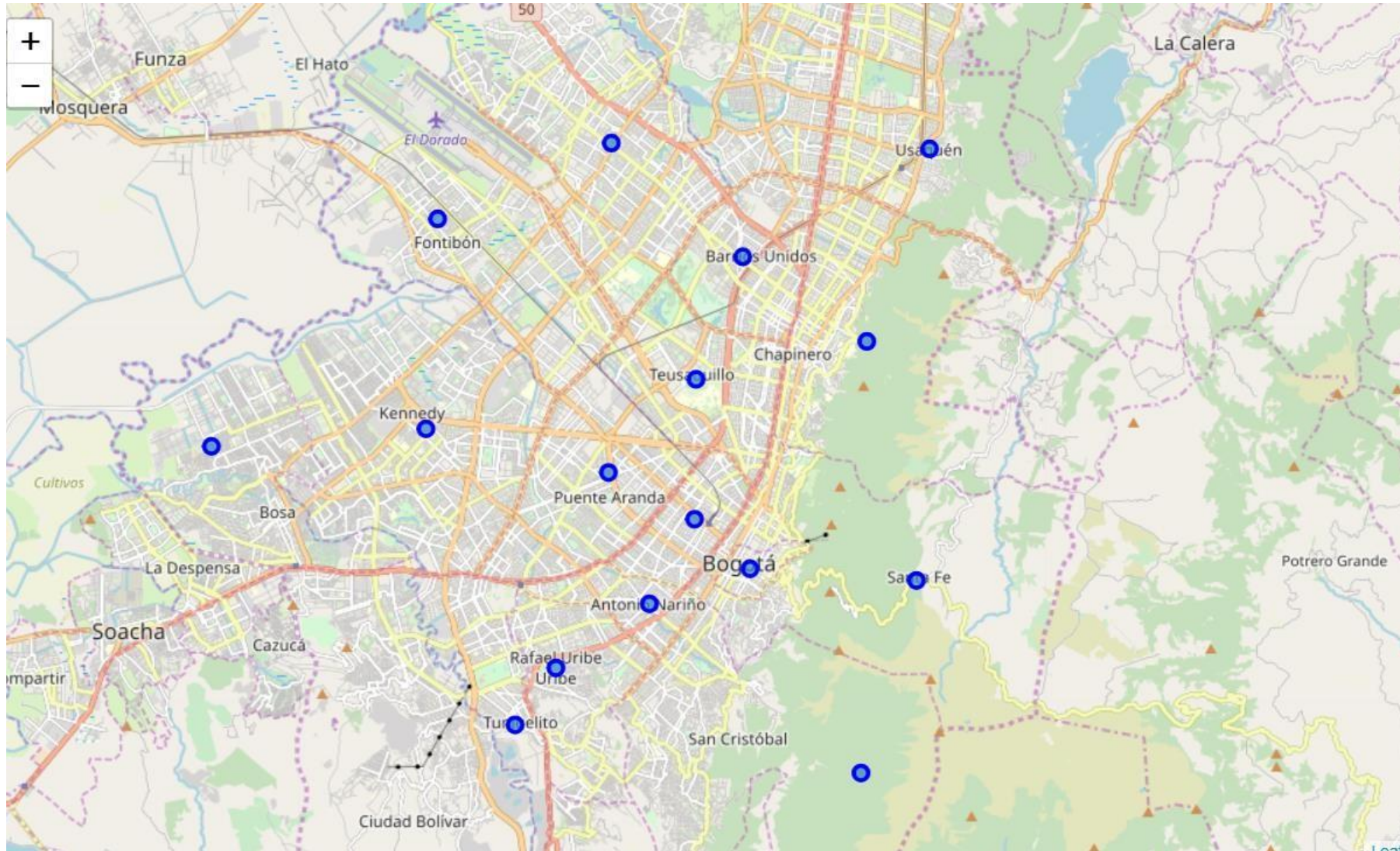
Data

- To help Deepak in his search we will need to access to the Localities of Bogotá
- The coordinates (latitude, longitude) of these Localities of Bogotá from Open Street Map APIs
- From Foursquare we will need venues data.
- We will then leverage the data in order to determine which locality is the most appropriate in order to locate the burger joint.

Methodology

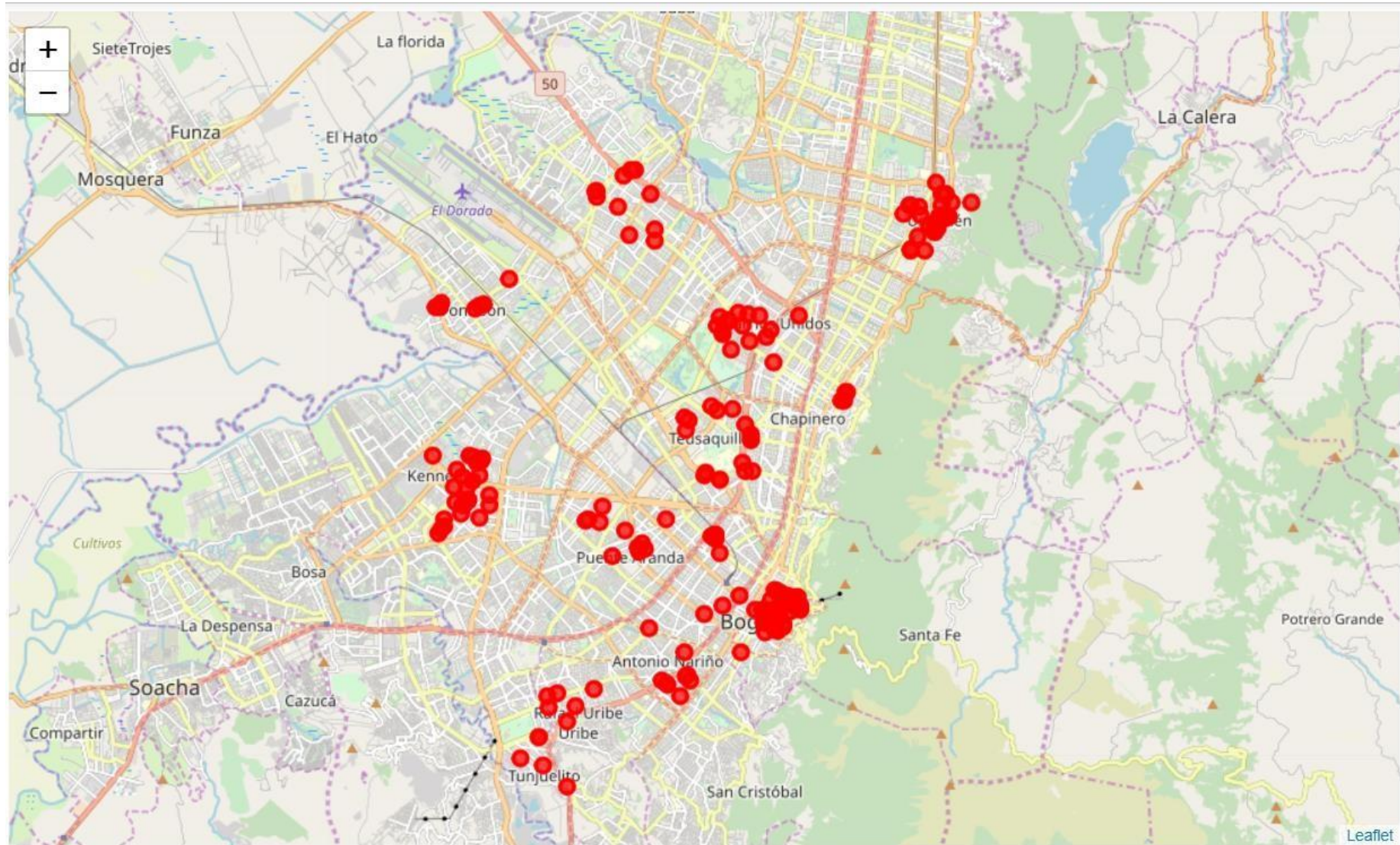
- For each locality, all office, school, university and burger joints venues data have been collected from Foursquare.
- Then for each locality, the sums of the office, school, university and burger joints were computed.
- Note that the weights can be modified according to the importance of each category.
- Lastly, a score was computed for each locality as the weighted sum of the number of venues in each of the 4 categories (school, university, office, burger joints).

Localities of Bogotá, Colombia

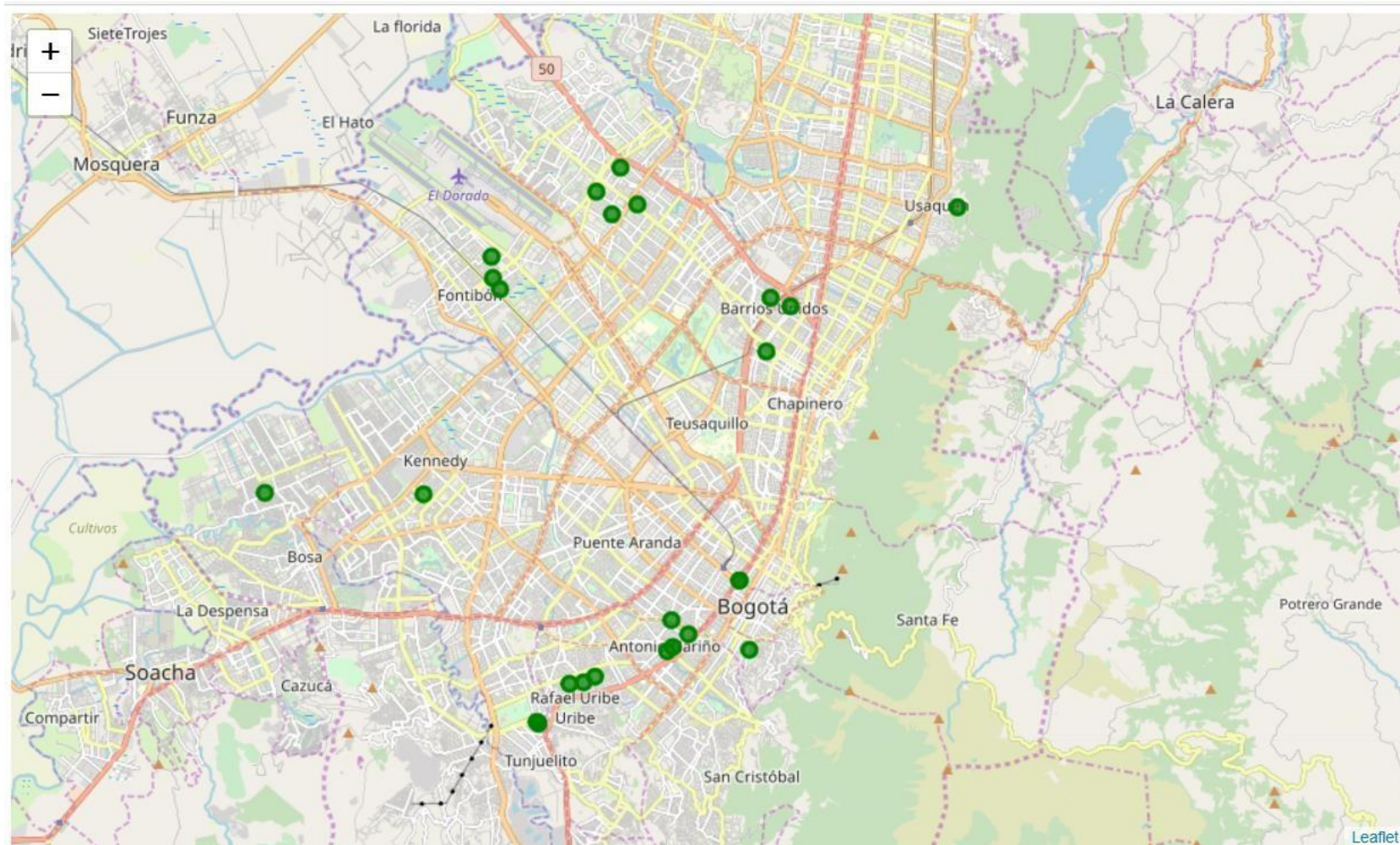


	Localidades	Latitude	Longitude
0	Usaquén	4.695047	-74.031493
1	Chapinero	4.649917	-74.046269
2	Santa Fe (Bogotá)	4.593766	-74.034314
3	San Cristóbal (Bogotá)	4.548658	-74.047473
4	Usme	4.411136	-74.129108
5	Tunjuelito	4.560148	-74.128922
6	Bosa (Bogotá)	4.625515	-74.200328
7	Kennedy (Bogotá)	4.629451	-74.149927
8	Fontibón	4.678737	-74.146988
9	Engativá	4.696628	-74.106120
10	Suba	4.761197	-74.082518
11	Barrios Unidos (Bogotá)	4.669679	-74.075483
12	Teusaquillo	4.641244	-74.086336
13	Los Mártires	4.608375	-74.086538
14	Antonio Nariño (Bogotá)	4.588253	-74.097455
15	Puente Aranda	4.619234	-74.106763
16	La Candelaria	4.596515	-74.073492
17	Rafael Uribe Uribe (Bogotá)	4.573490	-74.119208
18	Ciudad Bolívar (Bogotá)	4.492632	-74.143119
19	Sumapaz (Bogotá)	4.098800	-74.341530

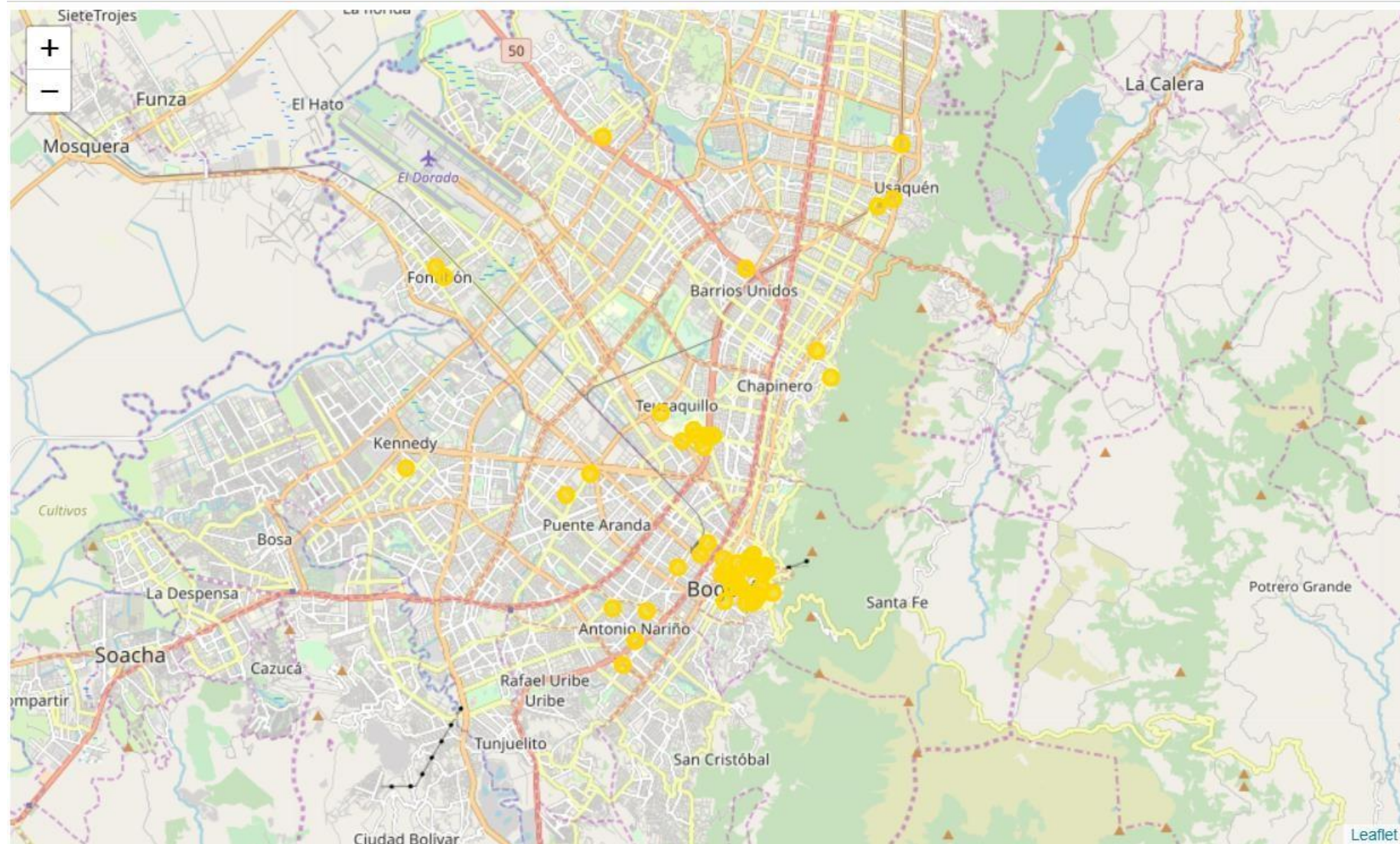
Burger Joints in Bogotá Localities



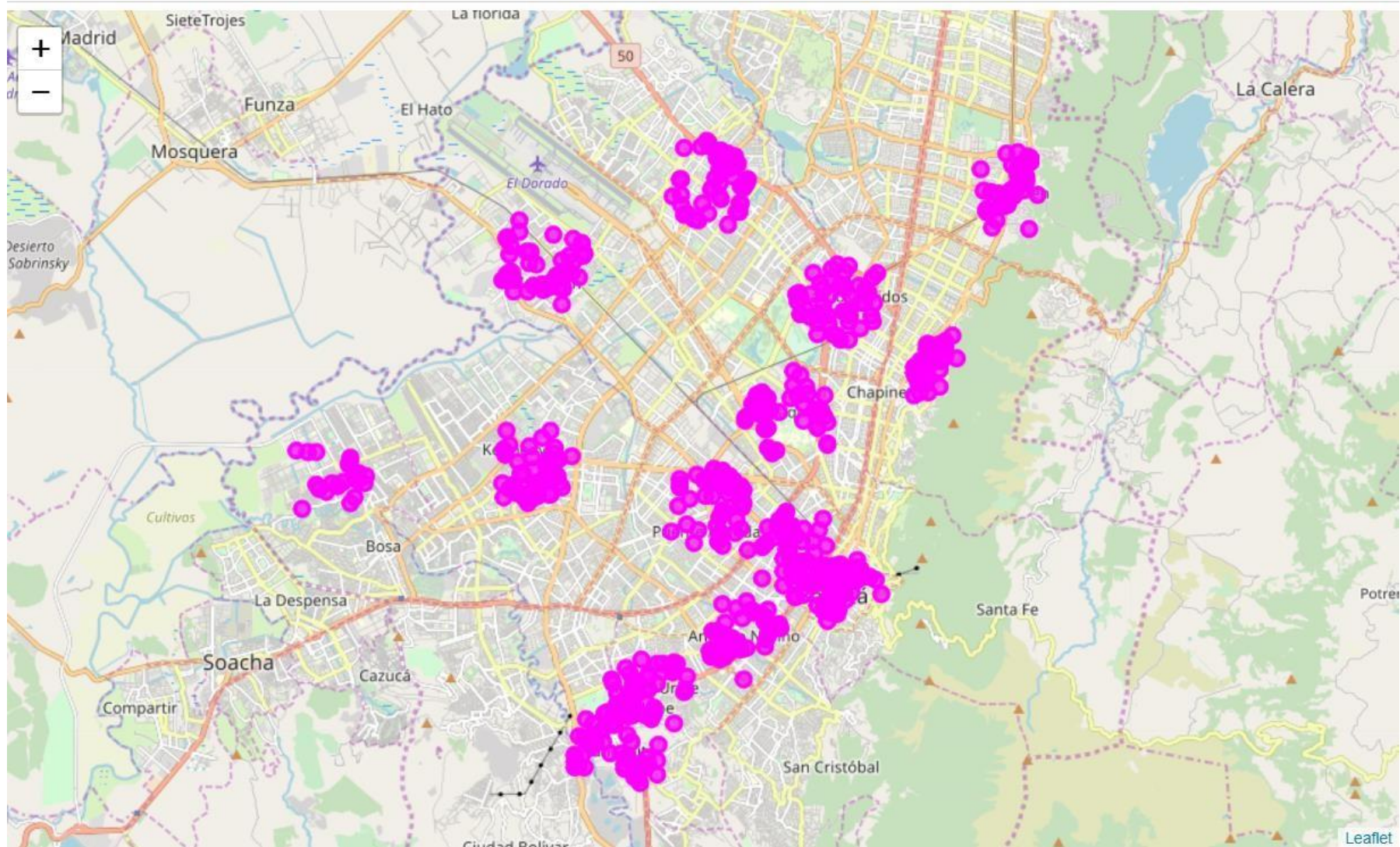
High Schools in Bogotá Localities



Universities in Bogotá Localities



Offices in Bogotá Localities



Results

	Localidad	Score
16	La Candelaria	109.5
14	Antonio Nariño (Bogotá)	101.0
8	Fontibón	99.0
17	Rafael Uribe Uribe (Bogotá)	98.0
5	Tunjuelito	98.0
1	Chapinero	97.0
9	Engativá	94.5
12	Teusaquillo	94.0
13	Los Mártires	93.5
15	Puente Aranda	92.0
11	Barrios Unidos (Bogotá)	87.5
7	Kennedy (Bogotá)	75.5
0	Usaquén	74.5
10	Suba	54.0
6	Bosa (Bogotá)	49.0
4	Usme	0.0
3	San Cristóbal (Bogotá)	0.0
2	Santa Fe (Bogotá)	0.0
18	Ciudad Bolívar (Bogotá)	0.0
19	Sumapaz (Bogotá)	0.0

- The Locality with the best score is “La Candelaria” with 109.5, being the best option.
- Follows closely “Antonio Nariño” with 101.
- These options maximizes the number of potential customers from offices and universities and at the same time have not too large competence.

