Data

I'll get all zip codes and neighborhood names of Guadalajada from this web page, https://codigo-postal.co/en-us/mexico/jalisco/guadalajara/, so I can create a data frame like this:

	Asentamiento	Municipality	State	Type	ZIP Code
0	Colonia 1 de Mayo	Guadalajara	Jalisco	Urbano	44970
1	Unidad habitacional 18 de Marzo	Guadalajara	Jalisco	Urbano	44960
2	Unidad habitacional 2001	Guadalajara	Jalisco	Urbano	44820
3	Colonia 5 de Mayo	Guadalajara	Jalisco	Urbano	44970
4	Colonia 5 de Mayo 2a Secc	Guadalajara	Jalisco	Urbano	44970

Once I get that data frame, I'll drop State, Type and Municipality columns, because is the same data for all neighborhoods. Then I need to rearrange columns to have Zip code as first column, like this:

	ZIP Code	Asentamiento
0	44970	Colonia 1 de Mayo
1	44960	Unidad habitacional 18 de Marzo
2	44820	Unidad habitacional 2001
3	44970	Colonia 5 de Mayo
4	44970	Colonia 5 de Mayo 2a Secc

Now that I have the data frame with the format that I need, is necessary to merge duplicate records for zip code on the same row, so data frame will look like this:

	ZIP Code	Asentamiento
0	44130	Fraccionamiento Arcos, Colonia Arcos Vallarta,...
1	44150	Colonia Barrera, Colonia Barrera
2	44160	Colonia Americana, Colonia Americana
3	44200	Colonia Artesanos, Colonia Artesanos
4	44230	Fraccionamiento Autocinema, Fraccionamiento Au...
5	44250	Colonia Balcones de Huentitán, Colonia Balcone...
6	44260	Colonia Barrio Mezquitan, Colonia Barrio Mezqu...
7	44270	Colonia Alcalde Barranquitas, Colonia Alcalde ...
8	44300	Fraccionamiento Batallón de San Patricio, Frac...
9	44306	Colonia Bosques de La Cantera, Colonia Bosques...

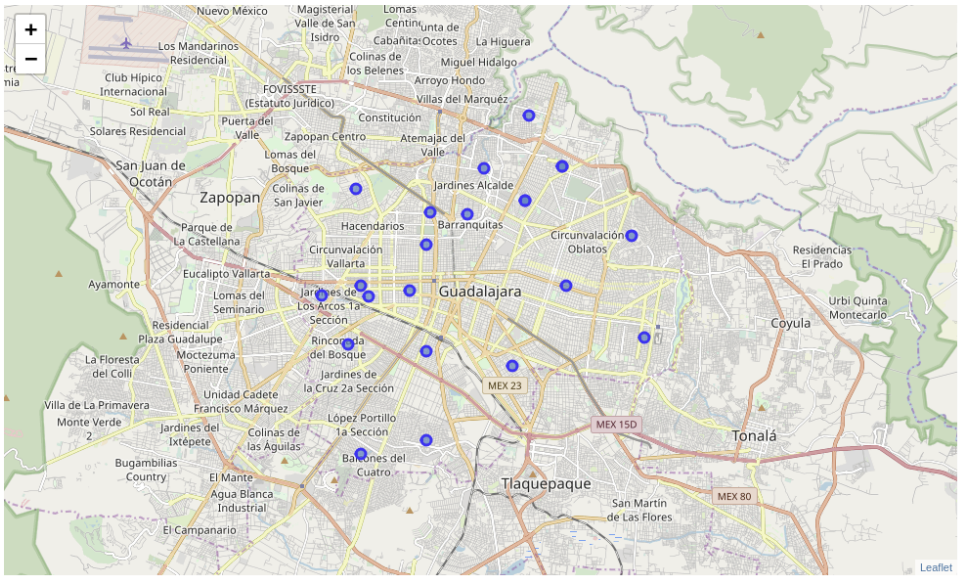
Now that I have all information for Guadalajara neighborhoods and zip codes, I need to retrieve latitude and longitude for each of them. I tried to use the geolocator api with no lucky so I had to create my own csv file in order to load it to a data frame and get something like this:

	ZIP Code	Latitude	Longitude
0	44100	20.6743	-103.3501
1	44110	20.6731	-103.3927
2	44130	20.6733	-103.3804
3	44140	20.6689	-103.3724
4	44150	20.6696	-103.3774

Now that I have all the needed information, then I can merge both data frames so I get this:

	ZIP Code	Asentamiento	Latitude	Longitude
0	44130	Fraccionamiento Arcos, Colonia Arcos Vallarta,...	20.6733	-103.3804
1	44150	Colonia Barrera, Colonia Barrera	20.6696	-103.3774
2	44160	Colonia Americana, Colonia Americana	20.6718	-103.3631
3	44200	Colonia Artesanos, Colonia Artesanos	20.6868	-103.3573
4	44230	Fraccionamiento Autocinema, Fraccionamiento Au...	20.7118	-103.3371

Finally, once I have merged all information together, I can now display a MAP with folium and mark every neighborhood in Guadalajara. So I got this:



Is hard to find a document with all Guadalajara Neighborhoods and it's latitude longitude, so I had to try to find, and collect them one by one and create my own csv file do display the map above. One think to take in count here is that some zip codes are very close and the lat, log for it is the same, that's why we can see not the entire 37 Neighborhoods with it's blue mark.

Once that I have all this information I'll do a request to foursquare api and try to get all information related with bakeries close to those locations, so I can start to do the analysis and try to find what is the best place to open a new bakery.