New School in San Francisco

By Henry Bonnie

Necessary Data

- Schools and their locations in San Francisco

- Youth population per district

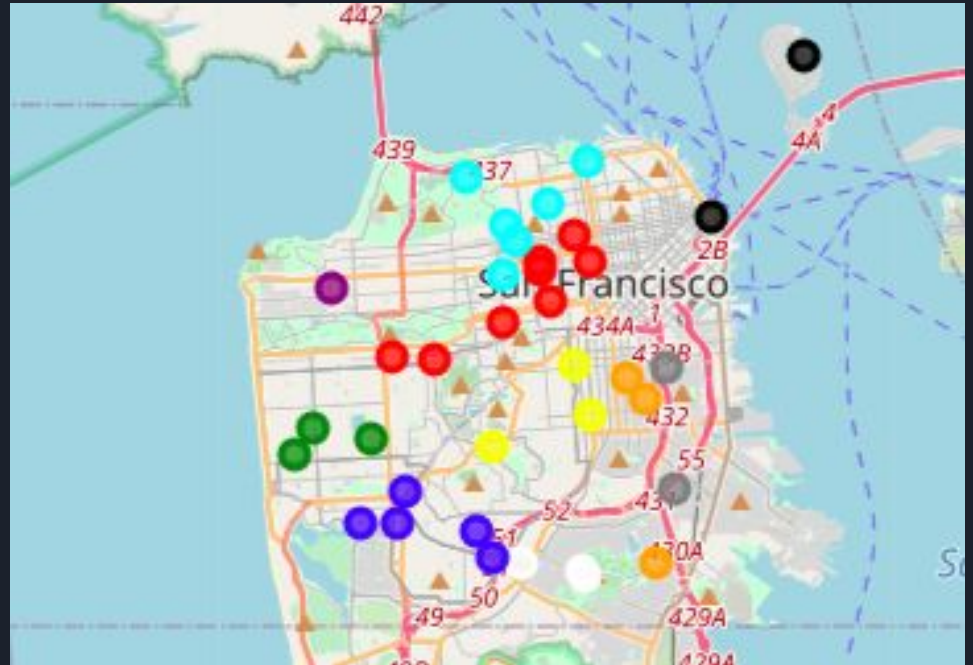- Schools per neighborhood

- School proximity

Data Collection

- I took a csv file and added it into a dataframe

- Selected Desired Data

- Cleaned Data

- Transferred into new dataframes

	Name	Address	County Name	Grade Range	District	Latitude	Longitude
0	Marshall, Thurgood Marshall High School	45 CONKLING ST, San Francisco, CA 94124	SAN FRANCISCO	9-12	10	37.736309	-122.401649
1	San Francisco University High School	3065 JACKSON ST, SAN FRANCISCO, CA 94115	SAN FRANCISCO	9-12	2	37.790657	-122.445351
2	Saint Ignatius College Preparatory	2001 37TH AVE, SAN FRANCISCO, CA 94116	SAN FRANCISCO	9-12	4	37.748863	-122.495819
3	Hearst, Phoebe Apperson Hearst Home	3045 SANTIAGO ST, SAN FRANCISCO 94116	SAN FRANCISCO	9-12	4	37.743630	-122.500053
4	Burton, Phillip And Sala Burton High School	400 MANSELL ST, San Francisco, CA 94134	SAN FRANCISCO	9-12	9	37.721546	-122.406555

Creating Map

- Map created using folium libraries
- Color Coded by District

Analyzing Kids Per School

- I used the district data to analyze how many kids correspond to the schools in a district
- Used this an another indicator which which districts need a new school

District	Population	Percent Ages 5-17	Adolescent Population	Kids Per School
1	78060	9	7025.4	7025.400000
2	67190	7	4703.3	783.883333
4	75120	11	8263.2	2754.400000
5	80760	6	4845.6	605.700000
6	66430	5	3321.5	1660.750000
7	72820	11	8010.2	1602.040000
8	71040	6	4262.4	1420.800000
9	83680	11	9204.8	3068.266667
10	73150	15	10972.5	5486.250000
11	85090	12	10210.8	3403.600000

Results

- The optimal location for a new school would be **District 1**
  - It has the lowest number of schools out of any district in the city
  - Had the most amount of kids corresponding to each school
  - Has available real estate at reasonable prices in relation to districts in San Francisco