

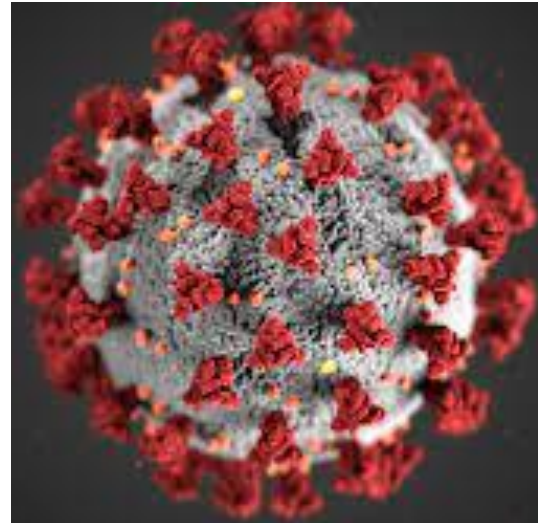
King County COVID-19 Cases

Jordan Glesener

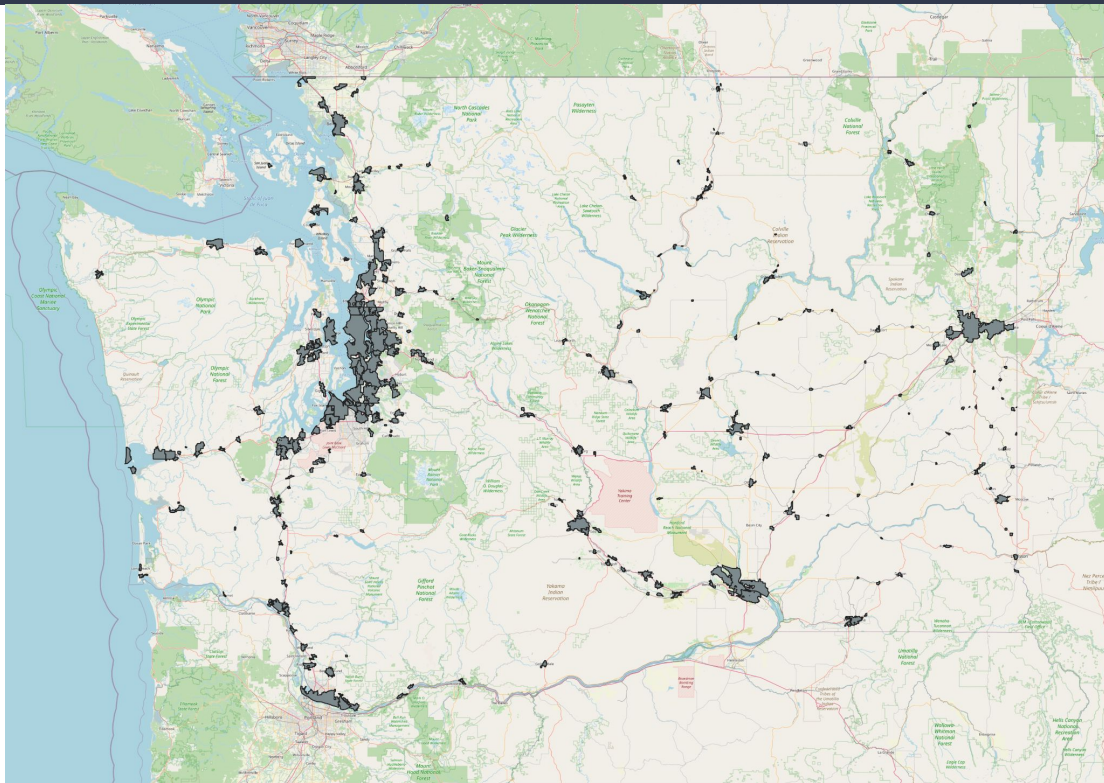
A large, dark blue, diagonal shape that starts from the bottom left and extends towards the top right, covering the lower half of the slide.

Goal of Project

- Map Covid Cases V Population
- Use my Home County of King County



Raw Data



Raw Data

Age_Group	City	Population	People_Test	All_Test_Res	Positives	Confirmed_C	Probable_Ca	Hospitalizati	Deaths
0-9	Shoreline	6342	4517	10039	962	923	39	0	0
10-19	Shoreline	5222	4871	10704	1255	1201	58	0	0
20-29	Shoreline	6213	6438	17484	1696	1572	124	12	0
30-39	Shoreline	8922	7718	21705	1606	1511	96	25	0
40-49	Shoreline	7509	6160	17332	1229	1143	87	27	0
50-59	Shoreline	7970	5606	16582	955	882	74	36	0
60-69	Shoreline	7115	5310	15028	694	658	36	53	14
70-79	Shoreline	4006	3213	8852	354	327	23	73	31
80+	Shoreline	2968	1881	5243	300	272	29	62	72

Developing a Python Script

Age-Group, City, Population, Total-Cases, Decimal-Cases, Percent-Cases

0-9, Shoreline, 6342, 923, 0.145537685, 14.55%

19-Oct, Shoreline, 5222, 1201, 0.22998851, 23.00%

20-29, Shoreline, 6213, 1572, 0.253017866, 25.30%

30-39, Shoreline, 8922, 1511, 0.169356646, 16.94%

40-49, Shoreline, 7509, 1143, 0.152217339, 15.22%

50-59, Shoreline, 7970, 882, 0.110664994, 11.07%

60-69, Shoreline, 7115, 658, 0.092480675, 9.25%

70-79, Shoreline, 4006, 327, 0.081627559, 8.16%

80+, Shoreline, 2968, 272, 0.091644205, 9.16%

Unknown, Shoreline, 0, 0, #DIV/o!, #DIV/o!

```
1 # reads Covid-19 csvs and finds the averages so we can use them
2
3 def main():
4     f = open("overall_city_demo-apr-18.csv")
5     type(f)
6     averages = {}
7     for line in f:
8         line = line.strip()
9         commas = 0
10        name = ""
11        pop = ""
12        cases = ""
13        for c in line:
14            if c == ",":
15                commas += 1
16            elif commas == 1:
17                name += c
18            elif commas == 2:
19                pop += c
20            elif commas == 3 and (c != "0" or "." or " " or ","):
21                cases += c
22        if averages.get(name) and name != 'City' and name != 'None/Unknown':
23            averages[name][False] += int(float(pop))
24            averages[name][True] += int(float(cases))
25        elif name != 'City' and 'None/Unknown':
26            averages[name] = [int(float(pop)), int(float(cases))]
27    for i in averages:
28        if averages[i][0] != 0:
29            averages[i].append((averages[i][1] / averages[i][0]) * 10000 // 1 / 100)
30    with open("averages.csv", "w") as f:
31        str = "City,Population,Total-Cases,Percent-Cases\n"
32        for i in averages:
33            if averages[i][0] != 0:
34                print(averages[i])
35                str += f"{i},{averages[i][0]},{averages[i][1]},{averages[i][2]}\n"
36        print(str)
37        f.write(str)
38        f.close()
39
40    main()
41
```

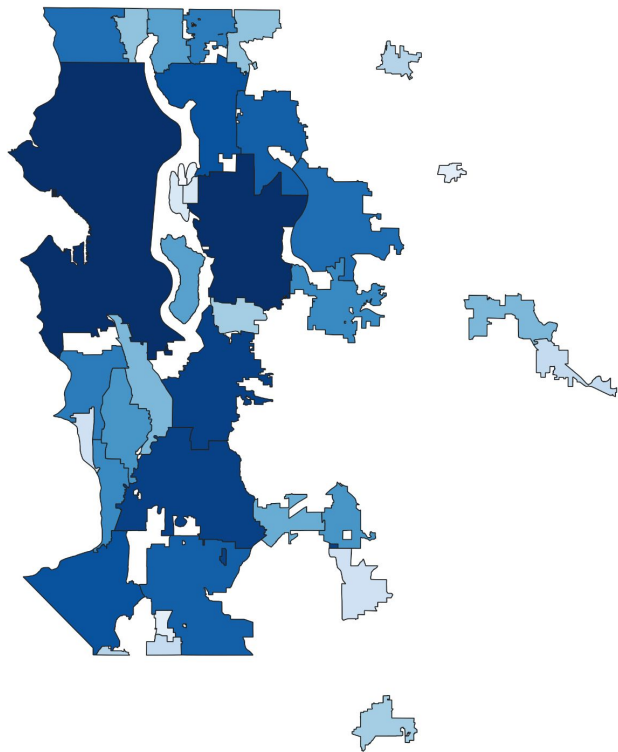
Merging the Data

Mercer Isl	25675	2701	10.51
Milton	7715	183	2.37
Mirrormo	3780	390	10.31
Newcastle	11750	1517	12.91
Normandy	6670	1016	15.23
North Ben	6983	973	13.93
Pacific	7215	1504	20.84
Ravensdal	1773	322	18.16
Redmond	65558	7121	10.86
Renton	101484	19358	19.07
Riverbenc	2562	212	8.27
Sammami	64674	6442	9.96
SeaTac	29019	7210	24.84
Seattle	724305	102321	14.12
Shadow La	2434	378	15.52
Shoreline	56267	8489	15.08
Skykomish	121	0	0
Snoqualm	13480	1353	10.03
Tukwila	20196	4701	23.27
Union Hill	21992	2239	10.18
Vashon	10291	491	4.77

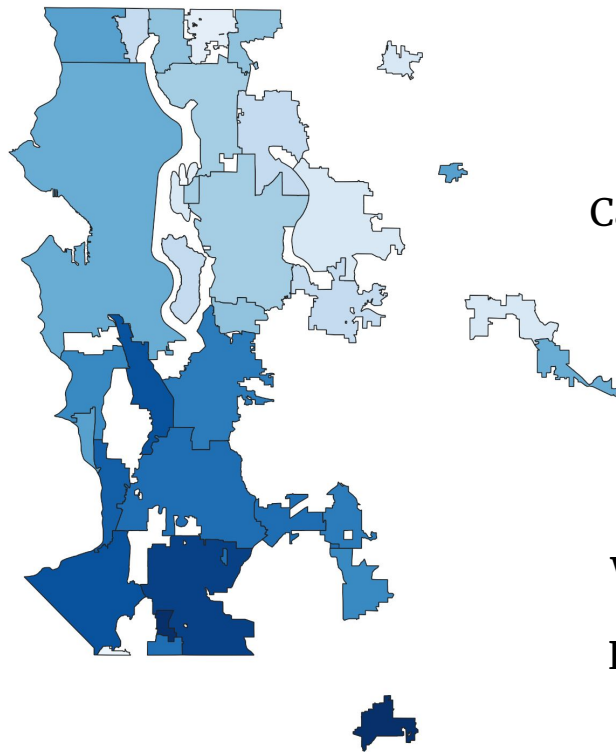
CITY_NM	UGA_NM	UGA_NM2	COUNTY_NM	GMA	FIPS_PLC
Algona	Algona UGA	Algona - Incorpor...	King	yes	01290
Auburn	Auburn UGA	Auburn - Incorpor...	King	yes	03180
Beaux Arts	Beaux Arts UGA	Beaux Arts - Inc...	King	yes	04895
Bellevue	Bellevue UGA	Bellevue - Incorpor...	King	yes	05210
Black Diamond	Black Diamond ...	Black Diamond ...	King	yes	6330
Bothell	Bothell UGA	Bothell - Incorpor...	King	yes	07380
Burien	Burien UGA	Burien - Incorpor...	King	yes	08850
Carnation	Carnation UGA	Carnation - Inc...	King	yes	10215
Clyde Hill	Clyde Hill UGA	Clyde Hill - Inc...	King	yes	13365
Covington	Covington UGA	Covington - Inc...	King	yes	15290
Des Moines	Des Moines UGA	Des Moines - In...	King	yes	17635
Duvall	Duvall UGA	Duvall - Incorpor...	King	yes	19035
Enumclaw	Enumclaw UGA	Enumclaw - Inc...	King	yes	22045
Federal Way	Federal Way UGA	Federal Way - I...	King	yes	23515
Hunts Point	Hunts Point UGA	Hunts Point - I...	King	yes	32755
Issaquah	Issaquah UGA	Issaquah - Inco...	King	yes	33805
Kenmore	Kenmore UGA	Kenmore - Inco...	King	yes	35170
Kent	Kent UGA	Kent - Incorpor...	King	yes	35415
Kirkland	Kirkland UGA	Kirkland - Incor...	King	yes	35940
Lake Forest Park	Lake Forest Par...	Lake Forest Par...	King	yes	37270

Final Maps

Pop.



Cases/ Pop



WGS-84

EPSG:3857