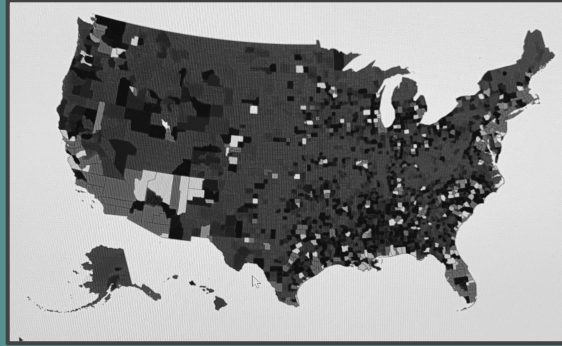


# COVID Cartographers

## County Visualization Data Map



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**Empowering the Community with Actionable COVID-19 Case Data**



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## Group Objectives

- Create an interactive map showing COVID statistics on every county in the US
- Relate the data to schools in every county
- View COVID information around each school to see where the hot zones are to avoid during travel.



# Objectives and achievements from maps

Our objective was to make a web based map that would notify the map users about the rates and ranges of covid for each school in the U.S and making it show the population around each school and county.

The achievement our teams received from the maps is the organization of data set on the maps from using color to describe the hot zones and low zones of each county and getting the map to display the name of the schools, county, longitude, and latitude.



# Challenges and Obstacles



- Not being able to pull and push the data correctly, after multiple trials this was finally achieved
- Some teams members Just becoming familiar with github and python and learning as we go
- Running into errors with the data received
- Making sure all of the data gathered has been implemented correctly
- Sharing the correct data amongst each other
- Finalizing the finished product



# Tools & Technology Used

Data Sources:

COVID Case Data: <https://www.kaggle.com/headsortails/covid19-us-county-jhu-data-demographics>

School Data:

[https://coronavirus-resources.esri.com/datasets/0e8df2dcbbc54e13833344e2ca8c0fa4\\_0/data?geometry=-168.110%2C25.907%2C-33.110%2C49.801&orderBy=STREET](https://coronavirus-resources.esri.com/datasets/0e8df2dcbbc54e13833344e2ca8c0fa4_0/data?geometry=-168.110%2C25.907%2C-33.110%2C49.801&orderBy=STREET)



- Python
- Pandas
- Plotly
- NumPy
- Requests



# Teamwork & Collaboration

- Collaborated on a mapping challenge with Joonyee's Team.....
- Met together in Zoom etc.



PEARC 2020 Hackathon

DEMO





# Future Iterations

Ability to narrow down maps to state or county

Choose various layers to show other stats or demographics





# Q&A