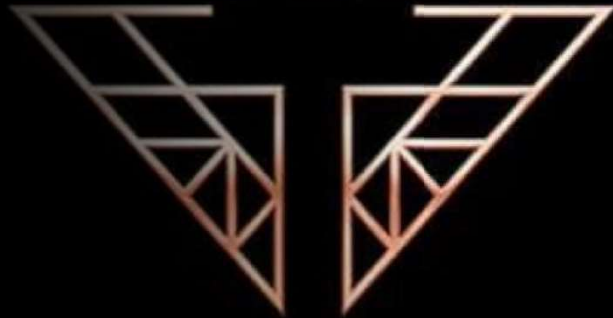


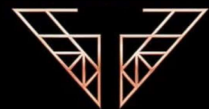
# QuickVis

Charlie's Angels  
PEARC 20 Hackathon



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## Meet the Team



**Helena Coker**

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## Git Hub

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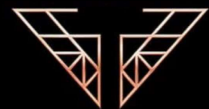
[https://github.com/hectorsantiago5/pearc20\\_quickviz](https://github.com/hectorsantiago5/pearc20_quickviz)



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## Problem Tasked

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Scientists need a tool to visual data quickly in a simple and easy manner without computational science experience on their part.

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## Scope

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### Import

Users can import their own datasets

### Choose

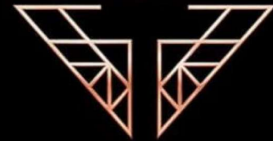
Users can select how their data is processed

### Plot

User's data is visualized geographically or graphically

### Analyze

User's visualization and results are analyzed



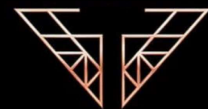
5

## What We Learned

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### How to use

- Leaflet, Echarts, charts.js to display data on graphs and maps
- Passing data between any application and a jupyter notebook
- Learned how to make a website with 4 pages interacting
- Learned how to use google cloud
- Learned how to code in CSS and HTML
- Learned how to use GitHub and Repl.It properly
- Learned how to connect Flask app with Java script to send to Jupyter Notebook
- Learned Jupyter notebook and Pandas to create data visualizations



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## What We Started With

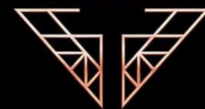


Started with:

- Nonfunctional static map
- Nonfunctional file uploader
- Rough single page website template

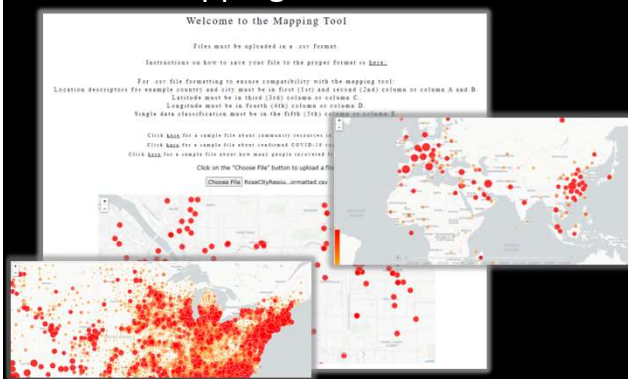
7

## Deliverables & Demo

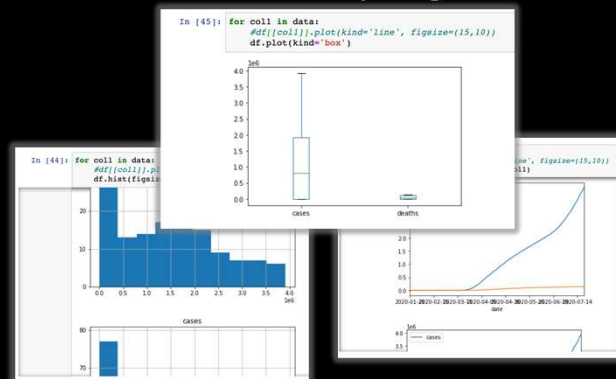


A fully functioning public facing tool set that takes users data and displays it as a map or graph

### Mapping Tool



### Graphing Tool



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## Future Work



- Working on expanding displaying users' data types
  - Box plots, line plots, bar plots, etc.
  - Mapping multi-variable dataset
- Statistical Analysis
  - Linear regression
  - Box plot and scatter plot and toggle bell curve feature
  - p-value with either standard alpha value (0.05) or feature to add their own
- Machine Learning and Predictive Analysis
  - One to locate areas of interest in a dataset
  - One for user assistance such as suggesting analysis types or possible formatting conflicts
  - One for user personalized such as recalling analysis they previously used on the site upon return

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## Our Thanks To



Charlie Dey



Linda Hayden



Chris Lanclos



Marlon Pierce

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## Our Thanks To



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## Git Hub



[https://github.com/hectorsantiago5/pearc20\\_quickviz](https://github.com/hectorsantiago5/pearc20_quickviz)



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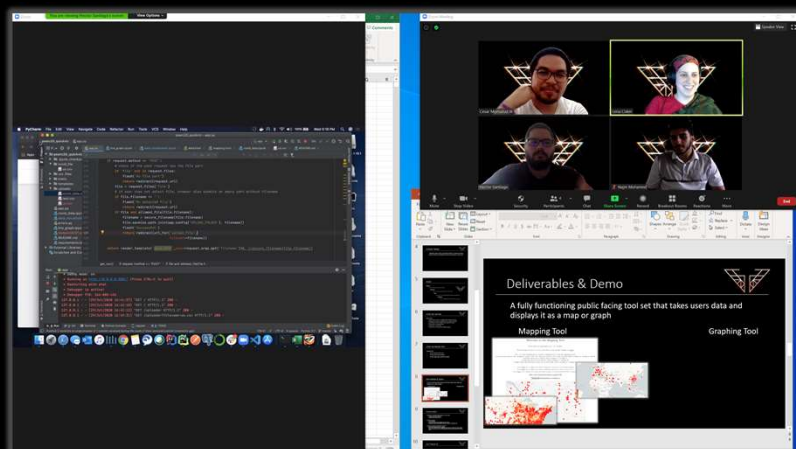
## Data Sources



- [https://github.com/CSSEGISandData/COVID-19/tree/master/csse\\_covid\\_19\\_data/csse\\_covid\\_19\\_time\\_series](https://github.com/CSSEGISandData/COVID-19/tree/master/csse_covid_19_data/csse_covid_19_time_series)
- <https://opendata.imspdx.org/dataset/rose-city-resource-dev2>
- <https://www.bfro.net/>
- [https://github.com/CSSEGISandData/COVID-19/tree/master/csse\\_covid\\_19\\_data/csse\\_covid\\_19\\_time\\_series](https://github.com/CSSEGISandData/COVID-19/tree/master/csse_covid_19_data/csse_covid_19_time_series)
- <https://data.world/us-doe-gov/0fd3e1b2-0e53-4e37-b822-7c3e810fe78c>

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Thank you for Listening!



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