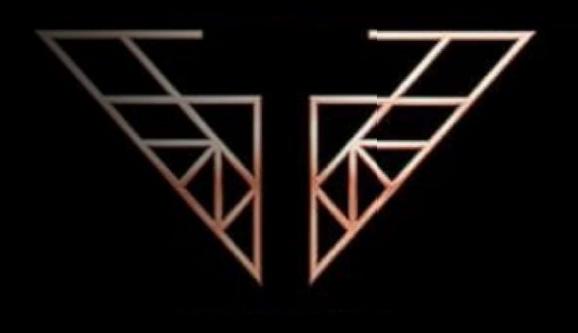
QuickVis

Charlie's Angels
PEARC 20 Hackathon



Meet the Team





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Git Hub

https://github.com/hectorsantiago5/pearc20_quickviz



Problem Tasked



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

Scope

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



What We Learned



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
- Learned how to use GitHub and Repl.lt properly

What We Started With



Started with:

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

Deliverables



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

Mapping Tool

Graphing Tool



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

Our Thanks To





Charlie Dey



Linda Hayden



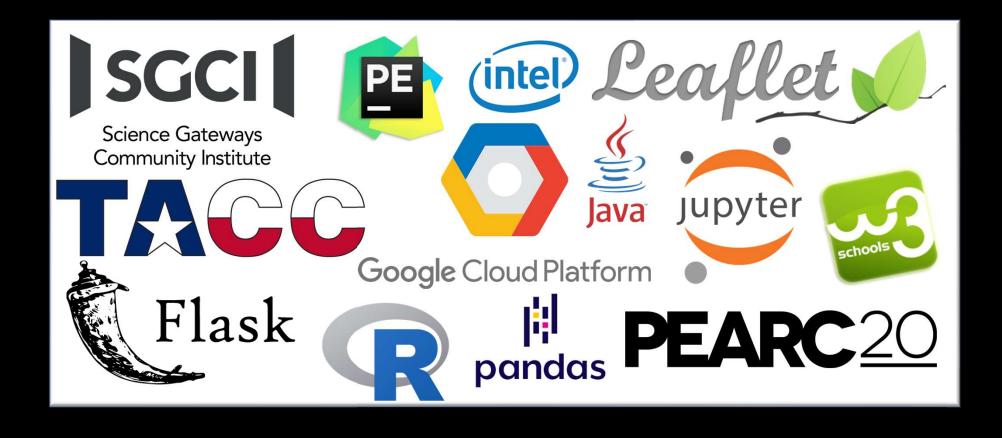
Chris Lanclos



Marlon Pierce

Our Thanks To





Git Hub



https://github.com/hectorsantiago5/pearc20_quickviz



Data Sources



- 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://data.world/us-doe-gov/0fd3e1b2-0e53-4e37-b822-7c3e810fe78c

Demo Time!



