

CSE583

Technical review

Team 6

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Project goal

Create an interactive Dash app that will show daily county-level covid cases (US) in a time series with attendant county and state safety mandates

- Show county level case counts through time
- Display mandate location and date as a part of COVID-count time series
- Demonstrate how the connection between safety mandates and COVID-count plays out for blue counties and red counties

Folium



Pros:

- Basic map setup is very simple.
 - Requires few dependencies
 - Importing layers is a line a of code and there are many built-in maps
 - Option to express/render map as HTML
- Being updated / maintained continuously w/ 100 current & 700 closed issues
- A variety of plugins
- Easier for creating maps with markers
- Closer feeling to Google maps

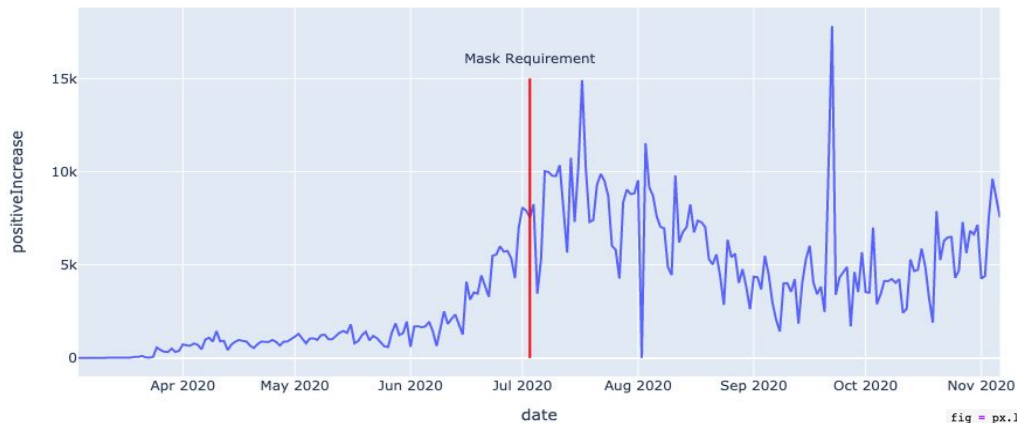
Cons:

- Limited user interactions
- Seems to require another medium that converts folium maps to html to integrate it with Dash

Plotly



TX daily case count



```
fig = px.line(TX_case_count, x = TX_case_count['date'], y = TX_case_count['positiveIncrease'], title='TX daily case count')
fig.add_shape(type='line',
              x0=datetime.datetime(2020, 7, 3),
              y0=0,
              x1=datetime.datetime(2020, 7, 3),
              y1=15000,
              line=dict(color='Red',)),
              xref='x',
              yref='y',
              )
fig.add_trace(go.Line(
    x=[datetime.datetime(2020, 7, 3)],
    y=[16000],
    text=["Mask Requirement"],
    mode="text",
))
fig.show()
```

Plotly

Pros:

- Expressive: add shape and label layer by layer
- Abundant tutorials and documentation
- One of the building blocks of Dash for the interactive webpage
- Being updated / maintained continuously w/ 700 current & 1000 closed issues
- Easier to create interactive maps

Cons:

- Learning curve

Conclusion



- Provides access to Dash
 - Interactive dashboard: our project's goal
 - built-in controls and drop-down menus
 - A lot of resources

