**Project 1 Proposal**

Project title:

Group members: Jillian Gonder, Lisa Allred, John Swierczynski

Overall research question: How has COVID impacted the viewership of YouTube educational videos in the United States?

Task Breakdown:

Lisa: Census and Maps API data pull; Google Site building

Jillian: YouTube API data pull; Data manipulation into data frames

John: COVID data/API, dataframe/matplotlib drafts

Breakdown questions:

Is there a greater viewing of educational youtube videos in areas identified as hot spots?

Is there a relationship between socioeconomic status and viewership of educational videos on YouTube?

How has COVID impacted the subscription to educational YouTube channels?

Has there been an increase in educational video creation/posting to YouTube since COVID?

Data Sources:

* youtube analytics API
* Johns Hopkins University COVID data: <https://github.com/CSSEGISandData/COVID-19>
* Census API
* Google Maps API

Data Analysis Tools:

Jupyter Notebook

Pandas

Matplotlib

Data Visualizations:

Bar chart: Gender differences in # of educational videos watched

Bar chart: Age differences in # of educational videos watched

Scatter plot/linear regression: Number of covid cases per state vs educational videos watched

Scatter plot/linear regression: # of covid cases per major US city vs videos watched