Climate Change Visualization
Sprint 3 Plan (4/29-5/16)

Goal:

- Finish individual data visualizations
- Integrate data visuals to the world map.
- Web design and UI for World Map(s)

User Stories & Tasks

User Story 1: As a user, I want to be able to view the top 5/bottom 5 values based on both total amounts as well as percentile amounts because the information is helpful to understand who is a major/minor contributor to climate change.

- **[3]** Display Top5/Bottom5 values of countries in Choropleth
- **[1]** Display Top5/Bottom5 emissions of countries in CO2 Bubble Chart
- **[1]** Display Highest and Lowest Sea Level Rise and Drops
- **[4]** Display Top5/Bottom5 temperature of countries in Temperature Chart
- **[2]** Display Top5/Bottom5 values of countries in Energy Consumption

Total for User Story 1: 11 hours

User Story 2: As a Developer, I want to move all visual elements & associated features to a single SVG because this prevents scaling and resizing issues on different screen sizes

- **[1]** Integrate slider into the choropleth svg as well as all buttons
- **[1]** Integrate all buttons and slider inside of the svg to prevent scaling issues
- **[2]** Include search boxes, dropdown menus, and buttons inside of the svg to prevent incorrect placement of html elements

- **[2]** Include search boxes, slider, dropdown menu, and buttons inside of the svg to prevent scaling and resizing problems
  Total for User Story 2: 6 hours

User Story 3: As a user, I want to see a legend to understand scaling for each visual, so I read understand what the colors on each visual

- **[1]** Display a legend for each Choropleth map
- **[1]** Display a legend for Sea Level Visual
- **[4]** Display a legend for Temperature Visual
- **[2]** Display a legend for Energy Visual
- **[2]** Display a legend for CO2 Bubble Chart
  Total for User Story 3: 10 hours

User Story 4: As a user, I want to see web pages that are visually appealing and relevant to climate change because this captures the user's attention causing them to stay and learn with the website

- **[3 * 4]** Create 'stories' for each climate change topic explaining the data and the current direction of climate change as it approaches our "limit"
- **[2]** Have a good color/font scheme throughout all text, visual, and overall web pages
- **[3]** Re-do homepage introduction and explanation that educates the user more on a brief explanation of climate change.

  Total for User Story 4: 17 hours

User Story 5: As a user, I want to see predictive data to understand where global warming is headed because our goal is to show how we're approaching our 'limit'

- **[3]** Show predictive data for carbon dioxide that shows projection and limit for co2

- **[3]** Show predictive data for temperature that shows projection towards 1.5 and 2 degree Celsius
- **[3]** Show predictive data for energy that shows our use of non renewable energy and limit
- **[3]** Show predictive data for sea level and glaciers that show rise and loss of mass

  Total for User Story 5: 12 hours

User Story 6: As a user, I want to see matching header data tracking for each visual

- **[3]** Track percentage towards limit of 1 trillion tons of carbon dioxide, world emissions, and emissions of top countries
- **[3]** Track differences in temperature for each year as navigating through 1901 to 2019
- **[3]** Track which countries are using the most energy/resources
- **[3]** Track top losses in mass for glaciers and highest increases in sea levels

  Total for User Story 6: 12 hours

Total Sprint 3: 68 Hours

Scrum Meeting Times:

Monday: 2:00 Voice Call → Logistics
Tues/Thurs: After meetings @8:00AM, → Talk
Sat: 1:00 - 5:00 Voice Call → Group Programming