

----- WORKING PROTOTYPE KNOWN PROBLEMS REPORT -----

Product Name: Data Visualization

Team Name: Visualizing Climate Change

Date: June 13, 2019

Note: This document contains all known errors that will be shipped with the final product.

----- Update Slow Down -----

Description: Spamming changes really fast in year for the energy sunburst causes the visual to overlap due to the visual not removing faster than it updates

Location: Sunburst visual

Suggested Action: Make the update have a delay so it can properly remove all old elements of the sunburst before updating again

----- Heroku issues on Internet explorer-----

Description: This occurs when the heroku website is loaded on the internet explorer browser. It doesn't load the website correctly. This is possibly due to internet explorer requiring certain security features and since it's no longer being supported with new updates

Location: Internet Explorer

Suggested Action: No longer support Internet explorer or find a way to allow internet explorer help

----- Choropleth on load doesn't highlight isolated as default-----

Description: All choropleths default to isolated as the filter case when a page is accessed. However, the button doesn't highlight to match it.

Location: All choropleth visualizations

Suggested Action: Use a .onload d3 tag and find a way to highlight the buttons when a page is refreshed.

----- Choropleth missing data points -----

Description: Certain countries do not have data values resulting in blacked out countries.

Location: All choropleth visualizations

Suggested Action: Use other sources to fill in empty data points.

----- CO2 Choropleth button CSS-----

Description: The css for the buttons for isolated and comparative are incorrect and being displayed as black instead of white

Location: CO2 choropleth buttons: Isolated, comparative

Suggested Action: Find the CSS that is over-riding the defined values in co2choroButton.js and co2scatterplot.css.

----- Choropleth onload doesn't default highlight isolated-----

Description: The isolated button isn't highlighted despite being selected when the webpage is loaded

Location: All choropleths

Suggested Action: Use a .onload call in chorobuttons.js which highlights the isolated button

----- Energy Choropleth Loading Errors-----

Description: Every time a new filter is selected the text is blank until a new year is input. This also happens when using the text entry box. The error is caused because this

webpage is using d3.v5 and the call being used to re-render the visualization doesn't like something it is being passed

Location: Energy choropleth visualization

Suggested Action: Find backwards compatibility for d3v4.

----- Dropdown menu not deselected -----

Description: Temperature uses arrow keys to navigate through years. Changing countries uses dropdown menu. Unless you click somewhere to deselect, it'll stay selected and be affected by arrow keys

Location: Temperature visual, dropdown menu

Suggested Action: This is possibly due to browsers no longer supporting the code I used to deselect dropdown menu. This is for convenience as it can be fixed by the user clicking somewhere to deselect the dropdown

----- Tooltip staying displayed -----

Description: Changing the year quickly on the co2 bubble chart may lead to the tooltip being stuck and displayed.

Location: Carbon Dioxide bubble chart

Suggested Action: This is due to the bubbles coming from top left near the buttons. Moving where the bubbles come from or the buttons can solve this or having it remove all elements of the tooltip whenever the year changes

----- Starting from 2014 after comparing -----

Description: If you compare two years and increment the year, it'll start from year 2014 instead of the year you left off on

Location: Temperature comparing

Suggested Action: This is due to the way the update is implemented. It doesn't think the year is part of the range and resets to 2014 if you increment. This is due to some cases to prevent going beyond the scope and manipulating the scope should fix this