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Data Visualization

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# Critique 1

Q1:

The greyscale is least affected by colorblindness as there are no colors and it's just changes in brightness. The histogram feels off because the higher the number, the darker it gets instead of becoming lighter, meaning this doesn't do the best job of conveying information on a histogram. While Jet looks nice with the distinct colors, it loses distinction when put into coblis, the data blends together. Where it does excel is highlighting variation in the data. In the map, it makes spotting different regions easy for someone without color blindness. Within the histogram, Jet develops a very weird banding effect which can be somewhat off-putting to look at. Viridis is kind of the best of both worlds for this; it tends to preserve differences in hue and luminance more effectively than Jet. For some types of colorblindness, a bit of color difference is lost, but Viridis generally retains distinct gradations better than Jet. When it comes to the histogram, this is where Viridis shines. It was somewhat difficult distinguishing different regions on the map, but in the histogram, it becomes a lot more effective. I also believe it is better than greyscale as there is that color aspect to better define transitions.

Q2:

When drawing a vertical or horizontal line in the color picker, there's a nice option to hold hue, luminous, or chroma constant while varying the other value. For instance, in the H-L option, you can hold hue constant and very luminous so that you have a palette of continuous red that gets brighter and darker by making the line vertical. If the line is horizontal, you keep the same luminous, but change the color to more of a rainbow. For C-L, trying a horizontal line keeps the luminous the same, but increases the saturation from the saturation to 100%, and drawing a vertical line keeps the saturation the same but varies the brightness. Finally, for the H-C slider, a horizontal line keeps brightness and saturation the same, but changes the color, and a vertical line just affects Chroma.