

CS 360/560: Data Visualization

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Fundamentals of visualization including data sources, representations, and graphical integrity. Visualization of scalars, vectors, and high-dimensional data. Visual perception and color theory. Applications from medical imaging, social media, sports, security and surveillance domains. PREREQ: CS 245.

Assignment 6 - Color Scales in D3 - (100 points)

Due date: 3/7/2022 at 11:59pm

For this assignment, choose a dataset and make the following charts to get practice with color scales in [D3](#).

Create a separate Vizhub for every visualization and post the links on your website. Submit a link to your website. Make sure to **name your Vizhub appropriately**

Here are the specifications for this assignment:

To get a C (75) your assignment submission should:

- Implement a bar chart with a Sequential color scale

- The data must be read from a CSV file
- The chart must have clearly legible axis labels and tick marks
- The visualization must have a color legend associated with it that must be displayed appropriately. To display the Color Legend, use Susie Lu's d3-legend library - <https://d3-legend.susielu.com/> (scroll down on her webpage to see some great examples).

To get a B (85) your assignment submission should:

- Complete the requirements for a C and
- Implement a [diverging bar chart](#) with a Diverging color scale
- The data must be read from a CSV file
- The chart must have clearly legible axis labels and tick marks
- The visualization must have a color legend associated with it that must be displayed appropriately. To display the Color Legend, use Susie Lu's d3-legend library - <https://d3-legend.susielu.com/>

To get a A (95) your assignment submission should:

- Complete the requirements for a B and
- Implement a scatterplot (with 2 quantitative variables and a qualitative variable) with a Qualitative color scale
- The data must be read from a CSV file
- The chart must have clearly legible axis labels and tick marks
- The visualization must have a color legend associated with it that must be displayed appropriately. To display the Color Legend, use

Susie Lu's d3-legend library - <https://d3-legend.susielu.com/>.

To get an A+ (100) your assignment submission should:

- Complete the requirements for an A and
- Use color scales from the [Colorbrewer](#) website - [Refer to this example](#)
- Create a line chart with *at least* 4 separate lines colored using a qualitative color scale with the appropriate legend

Helpful links and tutorials:

- [d3 documentation on color scales](#)
- [Short chapter on D3 Color Scale from the "Using D3js" book](#)
- [Diverging color scale interpolators built into D3](#)
- [Sequential color scale interpolators built into D3](#)

Submitting the assignment

- For every visualization, post a link to your Vizhub sketch (mark it private, invite the TA and me as collaborators) and test it out before posting a link to it on your own website.
- Submit a link to your **website** on Canvas.

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