Week 5 lecture Notes

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Today's lecture comprised of talking about Color Visualizations

Here are the major takeaways from the lecture

1. Color visualization are better for representing qualitative data rather than quantitative data.
2. When we get sunlight, we are getting all different wavelengths. SO, when we see it, all the wavelengths get mixed and we see white color.
3. When encoding colors on computer, we encode it as RGB triplets and represent the color with respect to the amount of Red, Green and Blue colors in it.
4. HSV is much easier to design.
5. Currently, SRGB is been used majorly.
6. Sequential colormap- use both saturation and value.
7. Quantitative colormap- chunk of color bars make more sense rather than continuous merged graphs. So we wont be applying quantitative data where continuous time frame data has to be framed.
8. The coldest starts are red in color, in contrast to our general belief.
9. Magenta color doesn't exist- its something our brain maps. It's a mix of red and blue. When red cones and blue cones are activated but not the green cones- we get magenta.
10. Our eyes can register red much more easily because of large wavelength.
11. Color blindness- around 10% people are color-blind. There are different kind of color blindness, depending on the color cone they are not able to see.
12. We can create visualizations having color blind audience in mind.
13. Usually people don't like using rainbow color map.