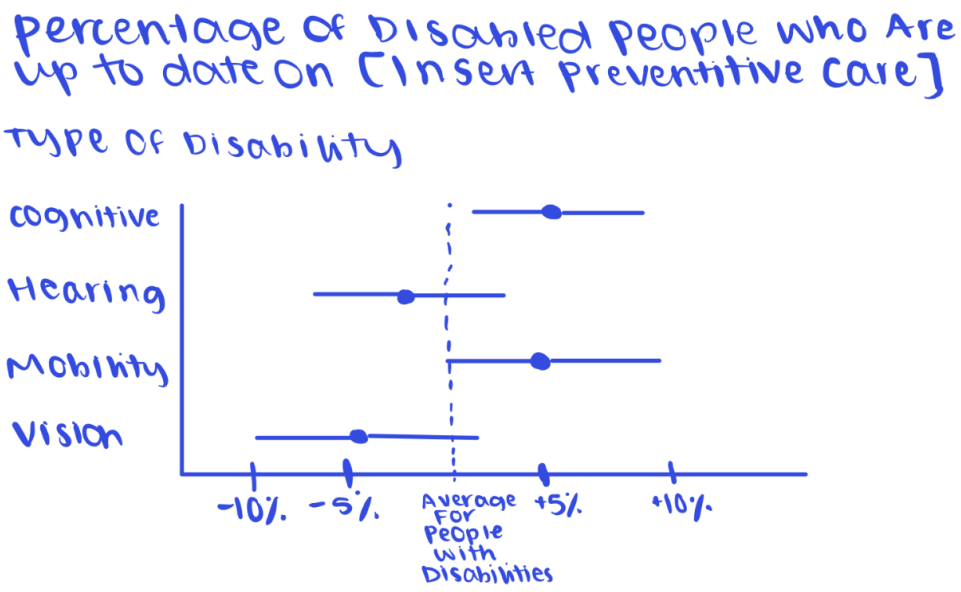
SI 649
Project 1 Sketches
Haley Johnson

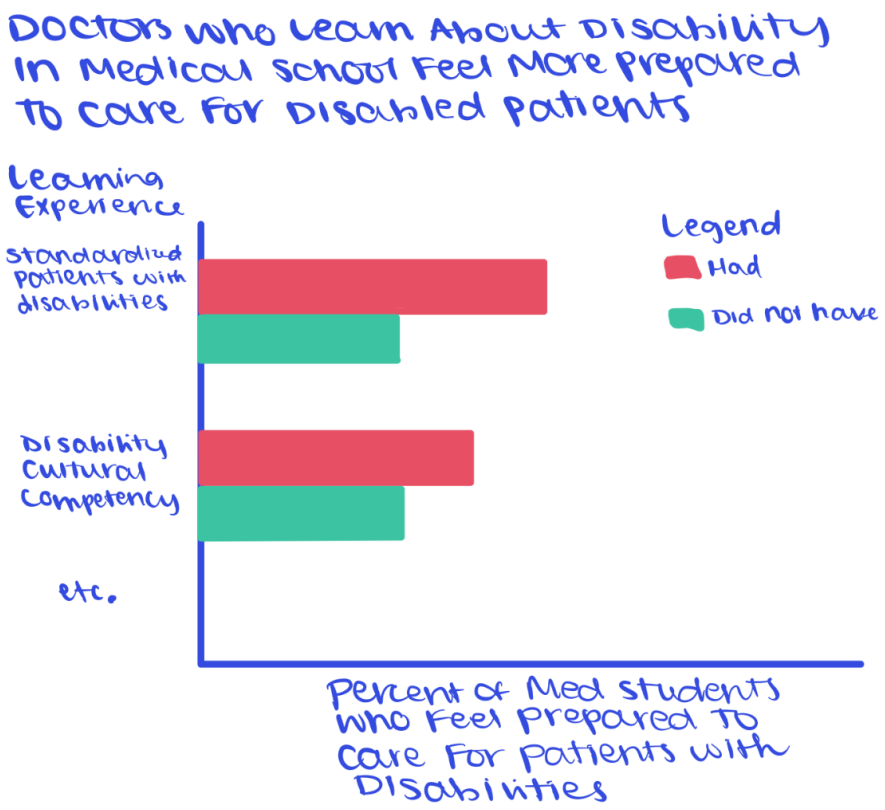
**Sketch 1:**




For this visualization, I want to highlight disparities within the disabled community. There is a dataset from the CDC about the percentage of disabled people who are up to date on certain forms of preventive care, broken out by different kinds of disabilities. It is meant to show that not all disabled people face equal barriers to accessing high quality medical care.

The y-axis is different classes of disabilities, and the y-axis is the 95% confidence interval for how rates of care compare to the overall population of disabled people. The dataset has information about several kinds of preventative care, so I may make this an interactive visualization or create small multiples of the same chart showing data for different types of care. This will also likely be an in-line visualization.

**Sketch 2:**

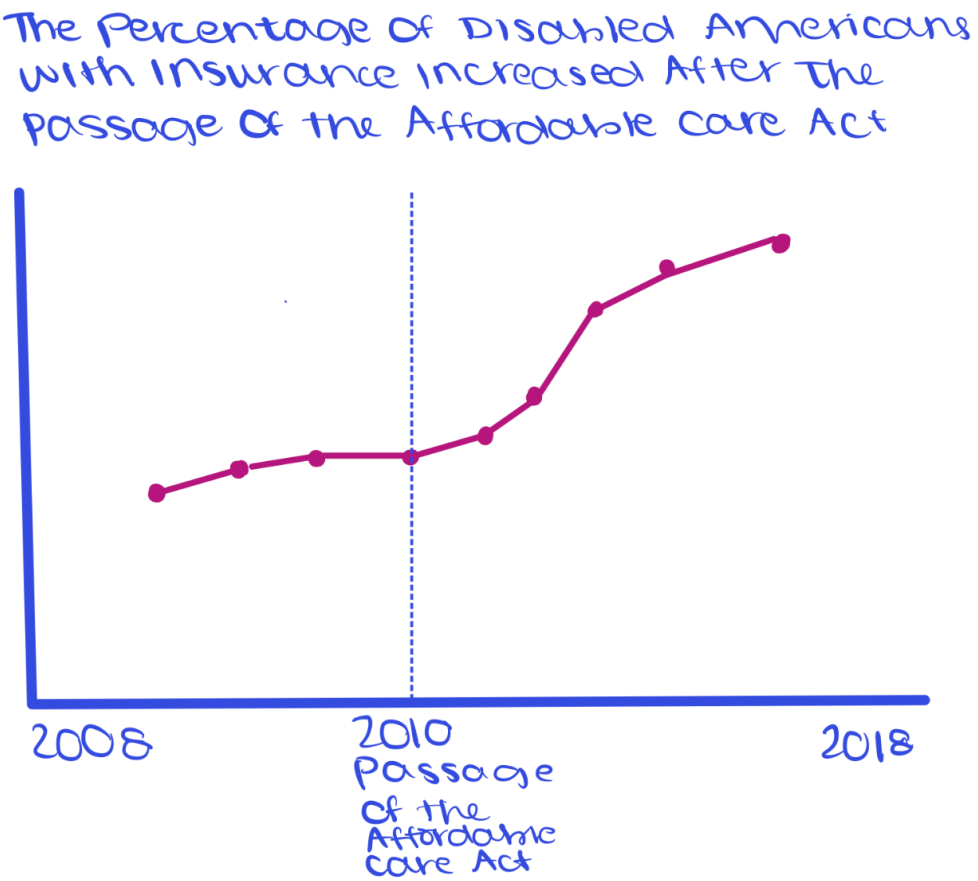



This visualization is meant to present data from this paper in a more aesthetically pleasing way. The paper found that medical students who have received training specifically about disabilities (e.g. working with standardized patients who have disabilities, learning about cultural competence in disability) felt more prepared to provide care to disabled patients.

The y-axis will have different types of disability-related training and the x-axis will show the percentage of doctors who feel prepared to care for patients with disabilities.

This is meant to complement the part of the article that talks about integrating disability training into medical school's education and provide evidence that doctors can provide better care for patients with disabilities if they receive better education. I plan on making this an inline visualization.

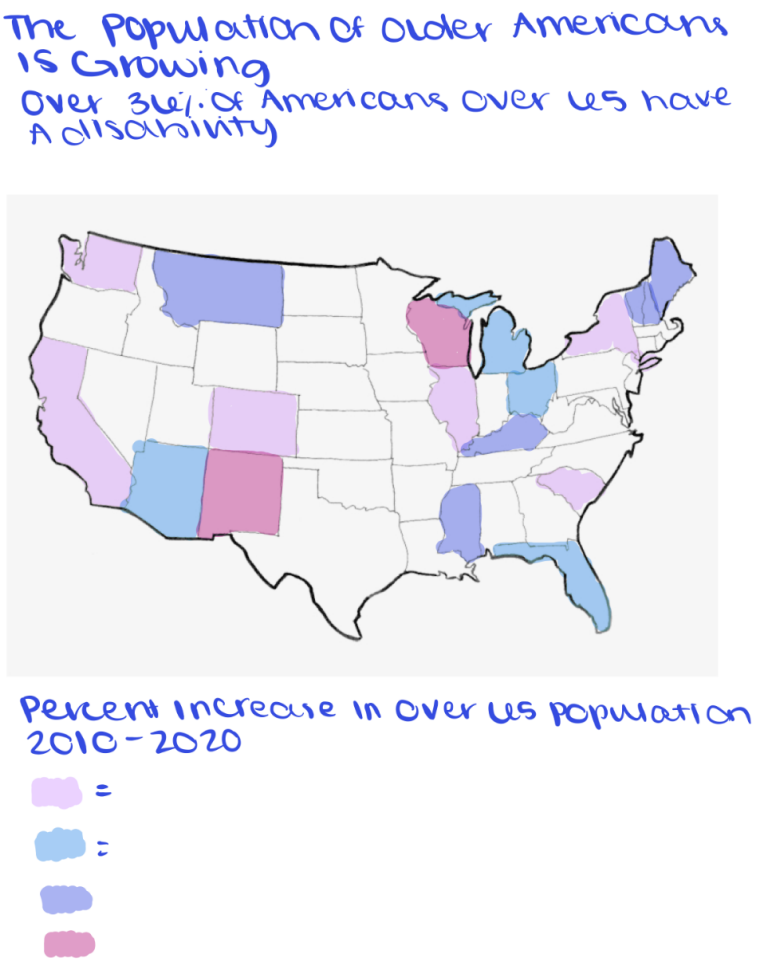
**Sketch 3:**




This visualization will use information from Cornell's disability statistics page. On the y-axis is the percentage of disabled Americans who have health insurance. The x-axis is the year and will have a special tick mark for when the Affordable Care Act was published in 2010. I may make this an interactive visualization, where the user can "drill down" into different types of insurance (e.g. employer based, medicare, medicaid).

This visualization will be a sidebar and have information about how the Affordable Care Act made it illegal to deny coverage based on pre-existing conditions, which helped many disabled Americans get healthcare. I hope to provide an example of how legal tools can be used to prevent discrimination against people with disabilities in healthcare settings — while the ADA does cover these settings, it isn't specifically designed to address the barriers disabled people face getting care.

**Sketch 4:**




This visualization will use data from the 2010 and 2020 Census. Each state will be shaded in by the percent growth in residents over the age of 65 from 2010-2020. I didn't shade all the states in my sketch since it wasn't necessary to illustrate my concept, but I will have data for each state.

I want to try to frame the issues the article raises in a broader context. The U.S. has a fast growing elderly population and over ⅓ Americans over 65 have a disability. There will be a huge growth in the number of patients who need disability-informed care in the coming years. This visualization would be a "sidebar" visualization and be accompanied by some text explaining the relationship between America's aging population and disability care.