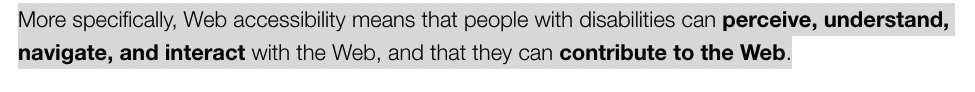
Accessibility Course

# Introduction

* What is it?
  + Allowing people with disabilities to use the web
    - 
* Similar Fields (BUT NOT ACCESSIBILITY)
  + Web Performance
    - Making website small and fast so people around the world can use it
      * Mainly on slower connection and slower devices
  + Internationalization
    - Translating app so it can be used in people’s native languages
  + UI Design
    - Making app use to use and understand
* Types of disabilities
  + Mobility and physical
  + Cognitive and neurological
  + Visual
  + Hearing
* How people use the web (with disabilities)
  + Keyboards
  + Head wand
  + Mouth Stick
  + Single Switch (one button)
  + Screen Reader
* Curb Cut Effect
  + Some prof from Berkley poured cement from his wheel chair down a curb to create a ramp because back then there was not many curb cuts.
    - Caused human rights movement
      * Helped lots of people
        + Shopping carts
        + Strollers
        + Wheelchairs
        + Bikes
        + Skateboards
  + Lesson?
    - By making stuff more accessible for people with disabilities, it also helps other people as well
    - Has hidden adverse effect that tend to benefit everyone.
* **WCAG**
  + 3 levels
    - A (lowest)
    - AA (recommended)
    - AAA (highest)
  + Can be hard to understand
* **WebAIM**
  + User friendly version of WCAG
    - Not the same as WCAG but a lot easier to understand
  + Checklist
    - <https://webaim.org/standards/wcag/checklist>

# Screen Readers

* How they work
  + Turn text to speech
* What they do
  + 1) Read all content
  + 2) List All Links on page
  + 3) List all headings in the page
* Popular Screen Readers
  + Chart, pie chart

    Description automatically generated
  + There can be issues with working on different screen readers
    - But will work 90-95% of the time just fine
* Alternative Text
  + Screen readers read the alt text when they find an image
    - If none, then they read file name
  + Background images should have empty alt text
    - Div with background image will auto ignore
  + User Uploaded Images
    - Tricky bc you can always add alt text
    - Here you can
      * 1) add generic alt
        + Alt=“User uploaded picture”
      * 2) Empty alt
        + Alt=”” (Will screen reader will skip these)
  + You can also have images hidden from S.R and images hidden from non-S.R
* Captions of Audio
  + Providing captions for videos so screen reader can use them