**ACCESSABILITY**

* How has the internet benefited people with disabilities?
  + screen readers can read content aloud
  + people can interact with assistive devices that map abilities to hardware
  + captions and transcripts can make multimedia accessible
  + sites/pages can be structured to make meaning easier to understand
* Disability Categories:
  + **Visual** <https://webaim.org/articles/visual/>
    - blind, low vision, colour blindness, etc.
  + **Auditory** <https://webaim.org/articles/auditory/>
    - deaf/Deaf, hard of hearing, tinnitus, etc.
  + **Motor** <https://webaim.org/articles/motor/>
    - motor control i.e. cerebral palsy, loss of limb, arthritis, spinal cord injury, etc.
  + **Cognitive** <https://webaim.org/articles/cognitive/>
    - (the most common!!)
    - visual comprehension, attention, reading or linguistic comprehension, distractions, etc.
* Note article has US statistics, CDN stats here:
  + <https://www150.statcan.gc.ca/n1/pub/89-654-x/89-654-x2018002-eng.htm>
* Note that in Canada and many other countries, **accessibility is the law**
  + if you’re creating a page/app could be used as part of someone’s occupation or education, it is required to be accessible
  + <https://www.canada.ca/content/dam/esdc-edsc/documents/programs/disability-inclusion-action-plan-2/action-plan-2022/ESDC_PDF_DIAP_EN_20221005.pdf>
  + <https://laws-lois.justice.gc.ca/eng/acts/a-0.6/>
  + Ontario: <https://aoda.ca/>
  + Finance: huge market for disability-related product/service <https://occ.ca/six-ways-to-tap-into-the-multi-billion-dollar-market/> and <https://globalnews.ca/news/4043721/canada-gdp-disability-access/>
* Notes re. Implementing Web Accessibility:
  + it’s important to be aware of what the barriers are, this helps you better design an accessible site/app
  + when starting a site/app from scratch, make it accessible as you develop it
    - it’s more time consuming to add accessibility later
* Testing for accessibility: Accessibility Tree, WAVE
  + <https://developer.mozilla.org/en-US/docs/Glossary/Accessibility_tree>
  + <https://wave.webaim.org/>

**SCREEN READERS**  
  
Try a screen reader: Set up the Windows narrator (WIN KEY CTRL ENTER) and use it (with your own head phones if you’re in a face-to-face class) to navigate a web site (you can them cover their screens with a piece of paper). The Mozilla page has some good examples you can use (#1 and #4 are good ones to start with, you could come back to other ones later in the course, perhaps).

* + All the examples below come from <https://developer.mozilla.org/en-US/docs/Learn/Accessibility/HTML> - there are explanations and instructions that might be useful on that page
  + Example 1: Semantic elements: bad (<https://mdn.github.io/learning-area/accessibility/html/bad-semantics.html>) and good (<https://mdn.github.io/learning-area/accessibility/html/good-semantics.html>)
  + Example 2: Layout: why it’s bad to use tables for layout (<https://mdn.github.io/learning-area/accessibility/html/table-layout.html>) and how to layout in an accessible manner (<https://mdn.github.io/learning-area/html/introduction-to-html/document_and_website_structure/>)
  + Example 3: Accessible navigation: (<https://mdn.github.io/learning-area/tools-testing/cross-browser-testing/accessibility/native-keyboard-accessibility.html>) this example teaches students how a blind or visually impaired user navigates links/menus (instructions might be required, see the main link above
  + Example 4: Link text: bad example (<https://mdn.github.io/learning-area/accessibility/html/bad-links.html>) and good example (<https://mdn.github.io/learning-area/accessibility/html/good-links.html>)
  + Example 5: Forms: bad example (<https://mdn.github.io/learning-area/accessibility/html/bad-form.html>) and good example (<https://mdn.github.io/learning-area/accessibility/html/good-form.html>)
  + Example 6: Tables: bad example (<https://mdn.github.io/learning-area/accessibility/html/bad-table.html>) and good example (<https://github.com/mdn/learning-area/blob/main/css/styling-boxes/styling-tables/punk-bands-complete.html>)