IST 263

# Lab 13

## This lab covers:

1. Accessibility
2. WAVE Accessibility Checker

## SETUP

Create a folder in your GitHub repository called lab13. Place a copy of your latest skills, bio, contact pages and stylesheet in the new folder. Please make sure to keep the same file names in the new folder.

## overview

In this lab we will go through a checklist of items to make our site more accessible. Some of these items don't apply to our portfolio website but I wanted to give you a checklist you could use for the future – think your project. When you are done with the checklist, we will put our sites through a testing tool that reports any items that need additional work to make the site accessible.

## Checklist

Look at all three of your portfolio website's pages for the items below.

1. **Language** 
   1. Add an attribute to your html tag on all your pages to describe what language you are using en is English. This is what your html tag should look like after you add the new attribute.  
      <html lang="en”>
2. **Images**
   1. alt attribute on all your images
   2. alt attribute accurately describes the image
   3. description does not use the words "picture of" or "image of"
   4. if an image is purely decorative – is not content on the page, leave alt attribute blank like this alt="" – screen readers don't read images with empty alt tags
3. **Font Units**  -
   1. font sizes are resizable (can be zoomed for folks with impaired vision)
   2. a list of "Relative Length" font units here: <https://www.w3schools.com/cssref/css_units.asp>
   3. Absolute units cannot be resized by the browser zoom.
4. **Semantic Tags**
   1. Make sure you have used semantic tags properly in your website
   2. You may want to bulk content together with the section tag – note the section tag requires a header
5. **Links** 
   1. You have not used "click here", "more" or other non-descriptive text as the link text
   2. Use judgment when linking full URLs. When linking a URL, consider users who must listen to a screen reader announce it
6. **Headings** – Make sure you heading tags are used hierarchically
7. **Aria Attributes** – we don't have any dynamic content yet, so nothing to do here
8. **Tab Index** – test tabbing though you pages and make sure the order makes sense, if it doesn't use the tabindex attribute to change the order
9. **Skip to Content** - Add a skip to content button for all three pages. Code for this can be found here: <https://www.w3schools.com/accessibility/accessibility_skip_links.php>.
10. **Video Captions** – we don't have videos so nothing to do here

## Wave browser extension

WAVE is an online website that checks accessibility on your web pages. We've done a lot to make our pages accessible. Now is the time to check and see if we did a good job.

1. Watch the tutorial on how to use WAVE here: <https://youtu.be/ITUDiTgAZY0>
2. Go to the <https://wave.webaim.org/> page and plug in your lab13 github.io URLs. WAVE will check the pages.
3. **Colors**  
   Check the color contrast of your pages. Adjust any colors that do not pass the contrast test in WAVE.   
     
   Help: The color picker on W3Schools will give you lighter and darker shades of a color: <https://www.w3schools.com/colors/colors_picker.asp>
4. **WAVE Errors**  
   Keep re-running WAVE until you have no errors or contrast errors. Some alerts are okay.   
     
   Note: if you get the fieldset alert on your contact page info is here: <https://developer.mozilla.org/en-US/docs/Web/HTML/Element/fieldset>

## What will You hand IN?

Create a word document, pdf or use the "write submission" option in Blackboard to provide the following:

1. Submit the URL for the index page.
2. Submit WAVE URLs that show all three of your pages WAVE results.
3. Submit answers to the following:
   1. What questions did you have about the lab? What didn't you fully understand?
   2. What was the hardest part of the lab?
   3. Rate your comfort level with this week's topics.  
      1 ==> I can do this on my own and explain how to do it.  
      2 ==> I can do this on my own without any help.  
      3 ==> I can do this with help or guidance from others.   
       If you choose this level, please indicate HOW this person helped you.  
      4 ==> I don't understand this at all yet and need extra help.