



IDENTIFYING WEB ACCESSIBILITY ISSUES

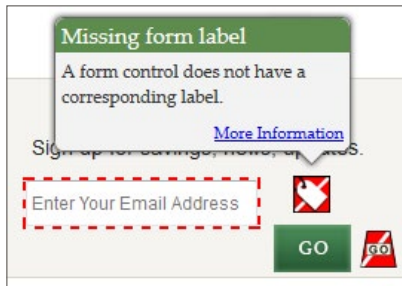


While it takes a *fairly technical background* to detect all accessibility issues and features, there are many accessibility problems that can be *quickly and easily* identified without the need for a highly technical background. This handout will suggest a few free accessibility tools and offer *4 simple techniques* to help you identify some common web accessibility problems.

1. Use the WAVE tool to detect errors

WAVE (wave.webaim.org) is a *free online tool* that can help you evaluate your page for accessibility. WAVE places *color-coded icons*

over the page you are testing. While it takes some skill to interpret some icons, you can be sure that any *red icon* is an *accessibility error* to be addressed.



- If you are not sure what an icon means, click on it and then select *“More information”*.
- If you cannot see the icons correctly, select the *No Styles button* to view the page without styles. Although the page will look different, all icons should be visible.
- You can also click on the *Contrast button* to identify text that may be difficult for some people to read.





2. Navigate without a mouse

Some users with *motor disabilities*, as well as those who are *blind*, have difficulty navigating the web *using a mouse*. Because of this, all web content must be accessible *using the keyboard only*. To test this, use the *Tab key* to navigate through links and forms (*Shift + Tab to go backward*) and the *Enter key* to perform an action. If you can't get to what you want, or if your cursor gets trapped and can't move, the page has an accessibility problem.

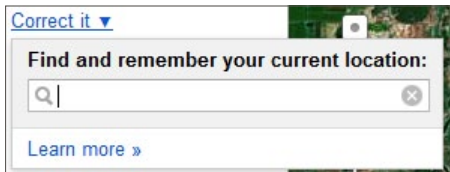
Note: If you are using Safari, you will need to enable the following preference first: *Safari > Preferences > Advanced > Check “Press Tab to highlight each item on a webpage”*.

Check for the following issues:

- When you *‘Tab’* to a link with the keyboard *it should be highlighted*, usually with a dashed outline. If you don't see this outline this is a *serious* issue. 
- Ensure that the *keyboard navigation order is logical*. It should basically match the visual reading order of the page. (e.g., header, sidebar, main content, footer).
- Check for things that *only work with a mouse* (e.g., a navigation menu that expands when the user hovers over it with a mouse). See what happens if you try to navigate this same area with a keyboard. 

- Some pages have a link at the *beginning of the page* that allows users to *skip over top navigation* to the *main content* on the page, navigate to this link with *Tab* and then press *Enter* to activate the link. Ensure that the screen visually ‘jumps’ over the navigation to the beginning of the page. Hit *Tab* again and make sure that focus goes to the next link on the page. If 

it jumps back to the top of the page, or if focus never moves from the top of the page in the first place, the skip link *might be broken*.

- If any boxes *pop open* (e.g., slideshows, date pickers, warnings) make sure you can navigate and close these boxes with a keyboard. The *Esc* key should close these boxes as well. 

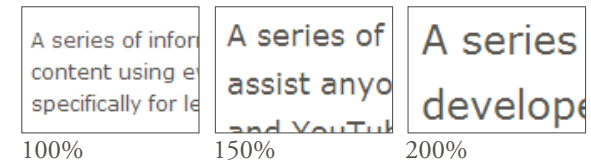
3. Zoom a page and enlarge text

Some users with visual disabilities *enlarge page content* for readability, but enlarging content on a page can sometimes cause layout problems. To make content larger, press *Ctrl* (*Cmd* on Mac) and + (plus). *Ctrl* and - (minus) makes content smaller and *Ctrl* and the number *0* will return to the default. *Zoom* the page several times and make sure everything is *readable*, especially images with text. It is fine if a horizontal scroll bar appears at the bottom of your window.


By default, zooming enlarges everything on the page, *including images*, but some users only enlarge text, so test this as well. To enlarge *only text*, do one of the following:

- Safari: *View > Zoom Text Only*
- Firefox: *View > Zoom > Zoom Text Only*
- Internet Explorer: *View > Text size*

Then, *enlarge the page* at least 150%, and up to 200% (roughly 4-5 steps) and make sure none of the text becomes *hidden* or *unreadable*. It is fine if text wraps to a new line or if the page doesn't look the same.



4. Other Recommendations to help you detect accessibility issues

- Check videos for *captions*.
- Look for links with *generic link text* such as “click here” or “more info.” These types of links can be confusing to screen reader users, and should be *replaced* with *more descriptive link text*.
- Check the *page title* (the text that appears in your browser tab) and make sure that it is *unique* and *descriptive*. 
- Contact *individuals with disabilities* and see if they would be willing to *review* the site and *identify* issues they encounter.