

Principles of Accessibility - WCAG 2.0

Perceivable – information must be available through sight, hearing or touch

Operable - compatible with keyboard or mouse

Understandable - User-friendly, easy to comprehend

Robust - Works across browsers, devices, assistive technologies

Your site can be WCAG compliant, yet still be inaccessible (Technically accessible, yet functionally inaccessible)

If people can't get information, they may very well take their healthcare business elsewhere resulting in:

Lost hospital admissions
Lost ER visits
Lost patient visits for practices
Lost surgery center visits
Lawsuits

The main categories of disabilities affected by Internet accessibility barriers are...



- Hard of hearing
- Deafness



- ▶ Blindness
- ▶ Low-vision
- ▶ Color blind



- ▶ Inability to use a mouse
- ▶ Slow response time
- ▶ Limited fine motor control



Accessibility Best Practices - Do's and Don'ts

Use headings properly

No more than 1 h1 on a page unless using <section > and <article > for additional h1s Do not skip heading levels, an h1 should be followed by an h2, followed by an h3 etc.

Do not use blank Hx tags

Do not use formatted paragraph text as a substitute for headings

♥ Use semantic organization

Use a proper list when it's a list of items, not a 'fake' list of links or paragraphs (screen reader users can choose to pull up lists)

◆ Include the alt attribute for every image

Do include form image buttons (better to use non-image buttons), and image map hot spots Do limit text within graphics: rotators, banners, campaigns

Do include name and title in the alt attribute of individuals pictured in news articles

Do leave the alt text null (alt="") if images have surrounding text or headings that describe the image If an image is the only thing in a link, then the alt text should reflect where that link is going.

Do not include words such as 'logo of' or 'picture of' or things like 'smiling lady' etc.

Do not use infographics and charts without also making the information available as real text Do not include title attributes on images

Provide meaningful link text

Learn more, read more, click here, etc. – taken out of context this type of link text is meaningless and can be confusing to screen reader users. Link text should convey the purpose of the link. Watch linking using single words, phrases are better ex: specialists vs. orthopedic specialists or services vs. cardiology services.

Urls alone should not be the link text, link the words of the link destination.

⚠ Links should not include the title attribute.

▼ Tables – are for tabular data only, not for layout

Row and column headings, where necessary, should be used to associate data cells with headers. Table headers should have appropriate scope attributes

There should be no empty

Do not use table summary, use <caption > instead to describe the table's purpose

- Color alone should not be used to convey content
- Simplify medical terminology or link terms to an explanatory resource
- ◆ Include Title and Subject fields in PDF document summaries

Forms: include Facility/practice name and the name of the form

If you are using an iframe, the title attribute should be describing what's in the iframe

Testing Tools

Site test tools

http://www.tenon.io/ and http://wave.webaim.org/

WebAIM Contrast Checker

http://webaim.org/resources/contrastchecker/

NVDA (NonVisual Desktop Access): Free, open source screenreader

http://www.nvaccess.org/

Contrast Ratio Calculator

http://leaverou.github.io/contrast-ratio/

NoCoffee - Chrome extension: Color blindness & vision impairments simulator

https://chrome.google.com/webstore/detail/nocoffee/jjeeggmbn-hckmgdhmgdckeigabjfbddl?hl=en-US

Functional Accessibility Evaluator 2.0

http://fae20.cita.illinois.edu/run/anonymous/

Resources

Accessibility Evaluation Quick Reference

http://webaim.org/resources/evalquickref/

WCAG 2.0 Checklist

webaim.org/standards/wcag/checklist/

Alt Decision Tree

http://www.w3.org/WAI/tutorials/images/decision-tree/

The Paciello Group

http://www.paciellogroup.com and their blog http://paciellogroup.com/blog/

Deque University for Accessibility Training

http://www.degue.com/services/degue-university/

Web Accessibility Tutorials - W3.org

http://www.w3.org/WAI/tutorials/

Using the html title attribute

http://www.paciellogroup.com/blog/2010/11/using-the-html-title-attribute/

Google's Guide to Designing with Empathy

http://www.fastcodesign.com/3047545/googles-guide-to-designing-with-empathy

Making Accessible Links - 15 Golden Rules for Developers

http://www.sitepoint.com/15-rules-making-accessible-links/

8 Myths about How Blind People Use the Internet

http://speckyboy.com/2013/02/04/myths-about-how-blind-people-use-the-internet/