

Accessibility

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The power of the Web is in its universality.

Access by everyone regardless of disability is an essential aspect.

Tim Berners-Lee, W3C Director and inventor of the World Wide Web

The Web is fundamentally designed to work for all people, whatever their hardware, software, language, culture, location, or physical or mental ability. When the Web meets this goal, it is accessible to people with a diverse range of hearing, movement, sight, and cognitive ability.

Thus **the impact of disability is radically changed on the Web because the Web removes barriers** to communication and interaction that many people face in the physical world. However, when websites, web technologies, or web tools are badly designed, they can create barriers that exclude people from using the Web.

The mission of the Web Accessibility Initiative (WAI) is to lead the Web to its full potential to be accessible, enabling people with disabilities to participate equally on the Web.

See below for:

- [why: the case for web accessibility](#)
- [what: examples of web accessibility](#)
- [how: make your website and web tools accessible](#)
- [Web Accessibility Initiative \(WAI\) at W3C](#)
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Why: The Case for Web Accessibility

It is essential that the Web be accessible in order to provide equal access and equal opportunity to people with diverse abilities. Indeed, the UN Convention on the Rights of Persons with Disabilities recognizes access to information and communications technologies, including the Web, as a **basic human right**.

Accessibility supports social inclusion for people with disabilities as well as others, such as older people, people in rural areas, and people in developing countries.

There is also a strong business case for accessibility. Accessibility overlaps with other best practices such as mobile web design, device independence, multi-modal interaction, usability, design for older users, and search engine optimization (SEO). Case studies show that accessible websites have better search results, reduced maintenance costs, and increased audience reach, among other benefits. Developing a Web Accessibility Business Case for Your Organization details the social, technical, financial, and legal benefits of web accessibility.

What: Examples of Web Accessibility

Properly designed websites and web tools can be used by people with disabilities. However, currently many sites and tools are developed with accessibility barriers that make it difficult or impossible for some people to use them. Below are just a few examples.

Alternative Text for Images

Alt text is the classic example. Images should include *equivalent alternative text* in the markup/code.

If alt text isn't provided for images, the image information is inaccessible, for example, to people who cannot see and use a screen reader that reads aloud the information on a page, including the alt text for the visual image.

When equivalent alt text is provided, the information is available to everyone to people who are blind, as well as to people who turned off images on their mobile phone to lower bandwidth charges, people in a rural area with low bandwidth who turned off images to speed download, and others. It's also available to technologies that cannot see the image, such as search engines.

Keyboard Input

Some people cannot use a mouse, including many older users with limited fine motor control. An accessible website does not rely on the mouse; it provides all functionality via a keyboard. Then people with disabilities can use assistive technologies that mimic the keyboard, such as speech input.

Transcripts for Podcasts

Just as images aren't available to people who can't see, audio files aren't available to people who can't hear. Providing a text transcript makes the audio information accessible to people who are deaf or hard of hearing, as well as to search engines and other technologies that can't hear.

It's easy and relatively inexpensive for website developers to provide transcripts for podcasts and audio files. There are also transcription services that create text transcripts in HTML format.

How: Make Your Website and Web Tools Accessible

Most of the basics of accessibility are even easier and less expensive than providing transcripts. However, the proper techniques are poorly integrated into some web tools, education, and development processes. If you are new to accessibility, it takes some time and effort to learn the common issues and solutions. A starting place is the Introduction to Web Accessibility.

Some accessibility barriers are more complicated to avoid and the solutions take more development time and effort. W3C WAI provides extensive resources to help, such as Understanding WCAG 2.0: A guide to understanding and implementing Web Content Accessibility Guidelines 2.0.

Using authoring tools that support accessibility makes it easier for website developers. Browsers also play a role in accessibility. Essential Components of Web Accessibility explains the relationships between the different components of web development and interaction.

Accessibility is essential for developers and organizations that want to create high quality websites and web tools, and not exclude people from using their products and services.

Web Accessibility Initiative (WAI) at W3C

The W3C Web Accessibility Initiative (WAI) brings together people from industry, disability organizations, government, and research labs from around the world to develop guidelines and resources to help make the Web accessible to people with disabilities including auditory, cognitive, neurological, physical, speech, and visual disabilities.

WAI's coverage of web accessibility includes 'web content' (websites and web applications), authoring tools (such as content management systems (CMS) and blog software), browsers and other 'user agents', and W3C technical specifications, including WAI-ARIA for accessible rich Internet applications.

We invite individuals and organizations to participate in WAI by volunteering to implement, promote, and review guidelines; contributing to the WAI Interest Group; and participating in Working Groups.

Learn More

WAI provides a wide range of resources on different aspects of web accessibility standards, education, implementation, and policy, including:

Introduction to Web Accessibility

Essential Components of Web Accessibility

How People with Disabilities Use the Web

Improving the Accessibility of Your Web Site

Managing Accessibility

Evaluating Web Accessibility

Standards, guidelines, and techniques for making accessible

websites: Web Content Accessibility Guidelines (WCAG)

authoring tools: Authoring Tool Accessibility Guidelines (ATAG)

browsers: User Agent Accessibility Guidelines (UAAG)

web applications: Accessible Rich Internet Applications (WAI-ARIA)

Developing a Web Accessibility Business Case for Your Organization

WAI home page highlights

and more WAI Resources

Recent Press

31 August

JD Supra

“Recent Verdict Strengthens the Growing Need for Websites to Increase Accessibility to Disabled Individuals”

21 August

Actualitte

“Le W3C Publishing Summit, Sommet Mondial de l'Édition, révèle son programme”

16 August

Petri

“Microsoft Adding Support for Progressive Web Apps in Windows 10”

3 August

Pacific Standard

“ARE INTERNET STANDARDS STANDING IN THE WAY OF DIGITAL ACCESSIBILITY?”

Current Status of Specifications

Learn more about the current status of specifications related to:

- Accessibility (All)
- Web Content Accessibility Guidelines (WCAG)
- Accessible Rich Internet Applications (WAI-ARIA)
- User Agent Accessibility Guidelines (UAAG)
- Authoring Tool Accessibility Guidelines (ATAG)
- Evaluation and Report Language (EARL)
- IndieUI
- Mobile Accessibility

These W3C Groups are working on the related specifications:

- Education and Outreach Working Group
- Evaluation and Repair Tools Working Group
- Web Content Accessibility Guidelines Working Group
- Accessible Rich Internet Applications Working Group
- Digital Publishing Interest Group
- Internationalization Working Group
- SVG Working Group
- Timed Text Working Group
- Web Platform Working Group

Acknowledgements

Editors: Shawn Lawton Henry and Liam McGee.

Contributors: Shadi Abou-Zahra, Andrew Arch, Alan Chuter, Sylvie Duchateau, Jack Welsh, William Loughborough, Catherine Roy, Sharron Rush, Yeliz Yesilada, and other participants of the Education and Outreach Working Group (EOWG).

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