The AODA in Action: What You Need to Know



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

What will be reviewed:

1. What is **web accessibility**?

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- 2. What is the Accessibility for Ontarians with Disabilities Act (AODA)?
- 3. Look at a summary of the Web Content Accessibility Guidelines (WCAG) 2.0.
- 4. Review some **tools** for assessing web accessibility.

What is Web Accessibility?

According to the World Wide Web Consortium (**W3C**) Web Accessibility Initiative (**WAI**), "web accessibility means that people with disabilities can perceive, understand, navigate, and interact with the web, and that they can contribute to the web."

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The WAI develops **strategies**, **guidelines** and **resources** to help make the web accessible to people with disabilities. One of the guidelines created by the WAI is the **Web Content Accessibility Guidelines** (**WCAG**), which explains how to make web content more accessible.

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The **WCAG 2.0** (December 2008) is the current version.



- Auditory: Hearing impairments or deafness.
- **Cognitive/Intellectual:** Cognitive (affecting memory or attention), developmental and learning (such as dyslexia) disabilities.
- Seizures/Neurological: Diseases or conditions that may result in photo epileptic seizures in the presence of a flashing effect or visual strobe.

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Some users may require **Assistive Technology (AT)**, which enables people to perform tasks that they were formerly unable to accomplish or had difficulty accomplishing.



- Screen reading software, e.g., JAWS
- Screen magnification software, e.g., ZoomText
- Braille translator
- Adaptive keyboard
- Mouth stick
- Text-to-speech software, e.g., Kurzweil







The Accessibility for Ontarians with Disabilities Act, 2005 (**AODA**) became law on June 13, 2005.

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Under this legislation, the government of Ontario has developed mandatory accessibility standards that **identify**, **remove and prevent barriers for people with disabilities** in key areas of daily living.

Accessible websites and web content fall within the Integrated Accessibility Standards of the AODA, 2005, under the Information and Communications Standards section.

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As of June 3, 2011, the Integrated Accessibility Standards became Ontario regulation:

http://www.e-laws.gov.on.ca/html/source/regs/english/2011/elaws_src_regs_r11191_e.htm



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Designated public sector and large organizations must make their internet websites and web content conform with the World Wide Web Consortium Web Content Accessibility Guidelines (WCAG) 2.0, initially at Level A and increasing to Level AA.

1. New internet websites and web content must conform with WCAG 2.0 Level A by January 1, 2014.

2. All internet websites and web content must conform with WCAG 2.0 Level AA by January 1, 2021.

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Success Criteria and Levels of Conformance

For each guideline, there are testable success criteria. There are three levels of success criteria: **A**, **AA**, and **AAA**. These are known as the **Levels of Conformance**.

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Level A: <u>Minimum</u> level of accessibility Level AA: <u>Enhanced</u> level of accessibility Level AAA: <u>Additional</u> accessibility enhancements

Each level builds upon the previous level. E.g., Level AA must satisfy all the Level A and Level AA success criteria.





Examples of success criteria and level of conformance:

Guideline 1.4.1 Use of Colour: Colour is not used as the only visual means of conveying information, indicating an action, prompting a response, or distinguishing a visual element. (Level **A**)

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Guideline 1.4.3 Contrast (Minimum): Text and images of text have a contrast ratio of at least 4.5:1. Large text (over 18 point or 14 point bold) has a contrast ratio of at least 3:1. (Level AA)

Guideline 1.4.6 Contrast (Enhanced): Text and images of text have a contrast ratio of at least 7:1. Large text (over 18 point or 14 point bold) has a contrast ratio of at least 4.5:1. (Level AAA)

Summary of WCAG 2.0

The WCAG 2.0 has 12 guidelines that are organized under these four principles:

- 1. Perceivable
- 2. Operable
- 3. Understandable

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4. Robust

Also known as **POUR**.



Perceivable (Guidelines)

- 1. Text Alternatives: Provide text alternatives for nontext content so that it can be changed into other forms people need, such as large print, braille, speech, symbols or simpler language. (1.1)
- 2. Time-based Media: Provide captions or other alternatives for multimedia. (1.2)
- 3. Adaptable: Create content that can be presented in different ways, including by assistive technologies, without losing meaning. (1.3)
- 4. Distinguishable: Make it easier for users to see and hear content (including separating foreground from background). (1.4)

























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Principle 4: Robust

Content must be robust enough that it can be interpreted reliably by a wide variety of user agents, including assistive technologies.

12. Compatible: Maximize compatibility with current and future user tools (assistive technologies). (4.1)

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What we must do to provide accessible websites:

- Ensure sites function under screen magnification
- Provide sufficient contrast for users with colour blindness
 or low vision
- Support the use of assistive technology (AT), such as screen readers
- Create sites that are keyboard-accessible (for users without a mouse)
- Follow web programming standards and best practices for overall usability and future compatibility (W3C)

Web Accessibility Resources

These resources are available on the Universities' site: http://admissions.ouac.on.ca/standards/web_accessibility.shtml

Here's a great place to start if web accessibility is new to you!
World Wide Web Consortium (W3C) Web Accessibility Initiative (WAI): http://www.w3.org/WAI/gettingstarted/Overview.html

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- http://www.wa.org/WJ/gettingstarted/Overvew.html
 Checklists and Testing:
 WebJAIK (Cluck Reference for Testing Web Content for Accessibility):
 http://webaim.org/resources/evaluatic/cnd/
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