Implementing WCAG: Improving Website Accessibility for All Your Users

Cynthia Ng
May 7, 2013
What is Web Accessibility?

Definition
Cynthia Ng @TheRealArty

http://thisisnixofficial.tumblr.com/post/3830398589
Why Should You Care?

Legislation (AODA)
Inclusive
Improvements for Everyone
What is WCAG?

Web Consortium Accessibility Guidelines 2.0
by the Web Accessibility Initiative (WAI) group, W3C
AODA Deadline

Accessibility for Ontarians with Disabilities Act (AODA) under **Section 14**, subsection 4

- By January 1, 2014, new internet websites and web content on [public sector] sites must conform with WCAG 2.0 Level A.

- By January 1, 2021, all internet websites and web content must conform with WCAG 2.0 Level AA, other than,
  - success criteria 1.2.4 Captions (Live), and
  - success criteria 1.2.5 Audio Descriptions (Pre-recorded).
Guiding Principles

• Perceivable
• Operable
• Understandable
• Robust

WCAG 2.0 at a Glance
Understanding WCAG

How to Meet WCAG 2.0

Issues
Template

- Consistent navigation (3.2.3) & identification (3.2.4)
- Multiple Methods of Discovery (2.4.5)
- Meaningful Order (1.3.2, 2.4.3)
- Use CSS for presentation (1.3.1)
Device Accessibility
http://techcrunch.com/2012/05/11/this-is-what-developing-for-android-looks-like/ via @mreidsma
Structure

- Valid Markup (4.1.1)
- Page Title (2.4.2)
- Language (3.1.1)
- Bypass Blocks (2.4.1)
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Your Page Title</title>
</head>
<body>
<header>
  <a href="#menu" class="skiplink">Skip to Main Menu</a>
  <h1>site name</h1>
  <h2>tagline</h2>
  <nav id="menu">
    <a href="#content" class="skiplink">Skip to Content</a>
    <a href="...">Global Nav Link</a>
    <a href="...">Second Nav Link</a>
    <a href="...">Yet Another Nav Link</a>
  </nav>
</header>
<div id="content">
  <article>
    <!-- your content, a blog post for example -->
  </article>
  <article>
    <!-- another standalone piece -->
  </article>
</div>
<div id="secondary">
  <!-- typically your sidebar -->
</div>
<footer> copyright and other info </footer>
</body>
</html>
ARIA

Accessible Rich Internet Applications
Using ARIA in HTML

http://dvcs.w3.org/hg/aria-unofficial/raw-file/tip/index.html

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<!DOCTYPE html>
<html lang="en">
<head>
  <title>Your Page Title</title>
</head>
<body>
<header role="banner">
  <a href="#menu" class="skiplink">Skip to Main Menu</a>
  <h1>site name</h1>
  <h2>tagline</h2>
  <nav id="menu" role="navigation">
    <a href="#content" class="skiplink">Skip to Content</a>
    <a href="...">Global Nav Link</a>
    <a href="...">Second Nav Link</a>
    <a href="...">Yet Another Nav Link</a>
  </nav>
</header>
<div id="content" role="main">
  <article role="article">
    <!-- your content, a blog post for example -->
  </article>
  <article role="article">
    <!-- another standalone piece -->
  </article>
</div>
<div id="secondary" role="complementary">
  <!-- typically your sidebar -->
</div>
<footer role="contentinfo"> copyright and other info </footer>
</body>
</html>

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Presentation

Colour Contrast (1.4.3)
Contrast Checker

Firefox Add-on
Headers

Page Title: TRY Conference
Topic: Presentations
    Subtopic: Making the Website Accessible
Topic: Registration

<h1>TRY Conference</h1>
<h2>Presentations</h2>
    <h3>Making the Website Accessible</h3>
<h2>Registration</h2>
Text Content

... 

Links (2.4.4)
Text in Another Language (3.1.2)
Tables (1.3.1)
## 2005/2006

<table>
<thead>
<tr>
<th>RESOURCES:</th>
<th>BUDGET</th>
<th>% OF BUDGET</th>
</tr>
</thead>
<tbody>
<tr>
<td>Books</td>
<td>$650,000.00</td>
<td>21%</td>
</tr>
<tr>
<td>Serials</td>
<td>$510,833.49</td>
<td>17%</td>
</tr>
<tr>
<td>Electronic Resources</td>
<td>$1,700,737.47</td>
<td>56%</td>
</tr>
<tr>
<td>Audiovisual Material</td>
<td>$45,000.00</td>
<td>1%</td>
</tr>
<tr>
<td>Maps</td>
<td>$4,000.00</td>
<td>.1%</td>
</tr>
<tr>
<td>Administrative Costs:</td>
<td></td>
<td>5%</td>
</tr>
<tr>
<td>Binding</td>
<td>$25,000.00</td>
<td></td>
</tr>
<tr>
<td>Processing</td>
<td>$16,000.00</td>
<td></td>
</tr>
<tr>
<td>Shipping</td>
<td>$40,000.00</td>
<td></td>
</tr>
<tr>
<td>Service Charges</td>
<td>$7,000.00</td>
<td></td>
</tr>
<tr>
<td>Taxes</td>
<td>$60,000.00</td>
<td></td>
</tr>
<tr>
<td><strong>Total Acquisitions Budget</strong></td>
<td><strong>$3,058,567.96</strong></td>
<td><strong>100%</strong></td>
</tr>
<tr>
<td>LOAN PERIOD</td>
<td>FINE PER ITEM</td>
<td>MAXIMUM CHARGE PER ITEM</td>
</tr>
<tr>
<td>------------------------------------------------</td>
<td>----------------</td>
<td>-------------------------</td>
</tr>
<tr>
<td><strong>REGULAR LOANS (5TH TO 10TH FLOOR)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Book, Music CD, Sound Effects</td>
<td>$0.50 per day</td>
<td>$20.</td>
</tr>
<tr>
<td>DVD &amp; VHS Videos</td>
<td>$3.00 per day</td>
<td>$120.</td>
</tr>
<tr>
<td>Periodicals (hourly)</td>
<td>$1.00 per hour</td>
<td>$50.</td>
</tr>
<tr>
<td><strong>SPECIAL LOANS (RESERVE, 2ND FLOOR)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DVD/VHS Videos and most hourly loans</td>
<td>$1.00 per hour</td>
<td>$50.</td>
</tr>
<tr>
<td>Laptop</td>
<td>$20.00 per hour</td>
<td>$500.</td>
</tr>
<tr>
<td>Portable DVD players</td>
<td>$10.00 per hour</td>
<td>$200.</td>
</tr>
<tr>
<td>CD &amp; Cassette Players</td>
<td>$0.50 per hour</td>
<td>$50.</td>
</tr>
<tr>
<td>Laptops</td>
<td>$20.00 per hour</td>
<td>$500.</td>
</tr>
<tr>
<td>Calculators</td>
<td>$1.00 per hour</td>
<td>$50.</td>
</tr>
<tr>
<td>Headphones</td>
<td>$1.00 per hour</td>
<td>$50.</td>
</tr>
<tr>
<td>Smart Board Markers</td>
<td>$1.00 per hour</td>
<td>$50.</td>
</tr>
</tbody>
</table>
Forms
Leave a Comment

Your email address will not be published. Required fields are marked *

Name
Eggy the Ram *

Email
eggytheram@ryerson.ca *

Comment
Eggy approves!

Post Comment

Check the CAPTCHA

Notify me of follow-up comments by email.
Notify me of new posts by email.
Have an account?

Please enter your credentials and click the Login button below.

Username:

Password:

Login  Clear

* This field is required

Help

Can't Login?

For student technologies
Media
Images

alt="TRY logo"

title="Toronto Ryerson York library staff conference"

Use Text for Text (1.4.5)
9 years ago, I hated Wordpress. This is how I got over it.

In the CMS/Blogging platform world, Wordpress is one of the kings. In fact, it has been at the top for a very, very long time. It garnered a lot of love years ago, when it first launched. And so, 9 years ago, I decided to give this fresh new face a try. After all, there was a lot of positive coverage ...

Read More

Don’t let your business go unnoticed.

Whether you’re a small mom n’ pop shop, or building a major chain empire, the world is as much digital as it is physical. People constantly use Google, Bing, Yahoo, and all the services they provide to look up businesses, shop online, and more. You would be denying yourself an opportunity to reach millions of potential customers by not having an online presence.

Have a restaurant? Feed your customers some 1s and 0s.

Restaurants who have an online presence can create a unique experience for new customers. It helps in the overall marketing mix. With a little effort, you can get more traffic and grow your business.

Case Study: The ClassicWFL Redesign
Audio/Video Etc.

- Autoplay Control (2.2.2)
- Audio – 3 second rule (1.4.2)
- Flash – 3 in 1 second rule (2.3.1)
- On a Timer (2.2.1)
Air Canada - Session time-out

Your session will expire in 1 minute 47 seconds.

Extend my session
https://www.youtube.com/watch?v=LHkL0A4xi-I
Accessible UI

jQuery UI

DojoCampus.org

Dijit

YUI Library
Takeaway

Make Your Website Better for All Your Users
Assessing Web Accessibility

WCAG Quick Reference
HTML Codesniffer
W3C Web Accessibility Tools list - WAVE & Fangs
Additional Resources

The Paciello Group Blog
The Accessibility Project
Questions?

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