Managing accessible content on thousands of sites

@jeremyfelt
Washington State University
Keyword(s): accessibility university

Search  Reset

Displaying 309 results

Name of Recipient

- Saginaw Valley State University (PDF)
- Michigan Virtual University (PDF)
- The Ohio State University (PDF)
- Davenport University (PDF)
- University of Cincinnati (PDF)
- Boise State University (PDF)
WSU Accessibility Schedule

2017 *New content* is accessible
2017 *Training for all content creators*
2019 *Old content* (2014) is accessible
Embrace the problem
Google says we have 5.2 million pages
Google says we have 302,000 pages
OK Google. Show me all URLs updated in the last year....
WSU Web Crawler

Crawls **URLs** for **URLs** and stores **URLs** in Elasticsearch

[web.wsu.edu/web-crawler]
WSU Web Crawler

- URL
- Domain
- Anchor elements
- WSU Identity
- Content
- Meta

web.wsu.edu/web-crawler
// Every second, lock a URL to be crawled.
setInterval( lockURL, 1000 );

// Every 1.5 seconds, queue locked URLs to scan.
setInterval( queueLockedURLs, 1500 );

// Start an ongoing process for URL storage.
setTimeout( storeFoundURLs, 2000 );
WSU Web Crawler

7.5 million URLs

web.wsu.edu/web-crawler
Accounts for over 2 million URLs that are effectively the same.

```javascript
if ( url.path.indexOf( "tribe_paged" ) >= 0 ) {
  return false;
}
```

Ignore The Event Calendar ICS download URLs.

```javascript
if ( url.path.indexOf( "?ical=1" ) >= 0 ) {
  return false;
}
```

This calendar has no bounds - hello February, 1830!

```javascript
if ( url.path.indexOf( "jtCalendar.php?" ) >= 0 ) {
  return false;
}
```
WSU Web Crawler

2.0 million URLs

web.wsu.edu/web-crawler
2740 URLs per day
Identify issues & owners
2388 Subdomains
WSU Accessibility Collector

*Scans and collects accessibility data* for a given set of URLs

[web.wsu.edu/accessibility-collector](http://web.wsu.edu/accessibility-collector)
WSU Accessibility Collector

Pa11y
HTML CodeSniffer
Elasticsearch

web.wsu.edu/accessibility-collector
// Every second, lock a URL to be scanned.
setInterval( lockURL, 1000 );

// Start process of queueing locked URLs.
setTimeout( queueLockedURLs, 1000 );

// Start process for scanning queued URLs.
setTimeout( queueScans, 2000 );
Code

WCAG2AA.Principle1.Guideline1_1.1_1_1.H30.2

- Perceivable content
- Guideline 1.1
- Success Criterion 1.1.1
- Technique H30
Context

<a href="https://web.wsu.edu/">
<img src="a-great-photo.jpg" alt=""/>
</a>
Selector

html > body > p:nth-child(1) > a
Img element is the only content of the link, but is **missing alt text**. The alt text should describe the purpose of the link.
WSU Accessibility Dashboard

*Displays data* collected by the WSU Accessibility Collector

dashboard.wsu.edu/accessibility
# WSU Accessibility Dashboard

## Lookup URL:

<table>
<thead>
<tr>
<th>Domain</th>
<th>Total URLs</th>
<th>Scanned URLs</th>
<th>Accessibility Errors</th>
<th>Error Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>extension.wsu.edu</td>
<td>440348</td>
<td>131259</td>
<td>1522028</td>
<td>11.60</td>
</tr>
<tr>
<td>news.wsu.edu</td>
<td>135828</td>
<td>88450</td>
<td>34595</td>
<td>0.39</td>
</tr>
<tr>
<td>archive.dailyevergreen.wsu.edu</td>
<td>119597</td>
<td>14684</td>
<td>245008</td>
<td>16.69</td>
</tr>
<tr>
<td>tricities.wsu.edu</td>
<td>77023</td>
<td>24776</td>
<td>669352</td>
<td>27.02</td>
</tr>
</tbody>
</table>
WSU Accessibility Dashboard

Dashboard Home > Domains > news.wsu.edu

Domain: news.wsu.edu

Errors

<table>
<thead>
<tr>
<th>Count</th>
<th>Success Criterion</th>
<th>Technique(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>16535</td>
<td>1.1.1: Non-Text Content</td>
<td>H30</td>
</tr>
<tr>
<td>9128</td>
<td>4.1.2: Name, Role, Value</td>
<td>H91</td>
</tr>
<tr>
<td>4034</td>
<td>1.3.1: Info and Relationships</td>
<td>H49</td>
</tr>
<tr>
<td>1795</td>
<td>1.1.1: Non-Text Content</td>
<td>H37</td>
</tr>
</tbody>
</table>
## Domain: news.wsu.edu

<table>
<thead>
<tr>
<th>Domain</th>
<th>URL Path (truncated)</th>
<th>Selector</th>
</tr>
</thead>
<tbody>
<tr>
<td>news.wsu.edu</td>
<td>/announcement/byron-hurt-working-to...</td>
<td>#post-142313 &gt; div &gt; p:nth-child(3) &gt; span:nth-child(3) &gt; em &gt; strong</td>
</tr>
<tr>
<td>news.wsu.edu</td>
<td>/announcement/all-are-invited-to-th...</td>
<td>#post-127386 &gt; div &gt; p:nth-child(5) &gt; strong &gt; a &gt; span</td>
</tr>
<tr>
<td>news.wsu.edu</td>
<td>/announcement/social-media-risky-bu...</td>
<td>#post-107481 &gt; div &gt; p:nth-child(2) &gt; span:nth-child(3) &gt; strong &gt; a &gt; span</td>
</tr>
<tr>
<td>news.wsu.edu</td>
<td>/2005/02/10/behind-the-banning-of-b...</td>
<td>#post-5514 &gt; div &gt; p:nth-child(2) &gt; a &gt; font</td>
</tr>
</tbody>
</table>
## Domain: news.wsu.edu

### Selectors

<table>
<thead>
<tr>
<th>Count</th>
<th>Selector</th>
</tr>
</thead>
<tbody>
<tr>
<td>9128</td>
<td><code>#shelve</code></td>
</tr>
<tr>
<td>2094</td>
<td><code>#gallery-1 &gt; figure:nth-child(1) &gt; div &gt; a</code></td>
</tr>
<tr>
<td>2092</td>
<td><code>#gallery-1 &gt; figure:nth-child(2) &gt; div &gt; a</code></td>
</tr>
<tr>
<td>2017</td>
<td><code>#gallery-1 &gt; figure:nth-child(3) &gt; div &gt; a</code></td>
</tr>
</tbody>
</table>
WSU Accessibility Dashboard

Domain: news.wsu.edu

<table>
<thead>
<tr>
<th>Domain</th>
<th>URL Path (truncated)</th>
<th>Criterion</th>
<th>Technique</th>
</tr>
</thead>
<tbody>
<tr>
<td>news.wsu.edu</td>
<td>/2014/01/21/washington-state-university-news/20140121...</td>
<td>1.2.2: Captions (Prerecorded)</td>
<td>G87 G93</td>
</tr>
<tr>
<td>news.wsu.edu</td>
<td>/2014/01/21/washington-state-university-news/20140121...</td>
<td>1.2.5: Audio Description (Prerecorded)</td>
<td>G78 G173 G8</td>
</tr>
<tr>
<td>news.wsu.edu</td>
<td>/2014/01/21/washington-state-university-news/20140121...</td>
<td>1.2.5: Audio Description (Prerecorded)</td>
<td>G78 G173 G8</td>
</tr>
<tr>
<td>news.wsu.edu</td>
<td>/category/wsu-vancouver-news/page/1...</td>
<td>1.3.1: Info and Relationships</td>
<td>H49</td>
</tr>
<tr>
<td>news.wsu.edu</td>
<td>/category/wsu-vancouver-news/page/1...</td>
<td>1.2.1: Audio-only and Video-only (Prerecorded)</td>
<td>G158</td>
</tr>
</tbody>
</table>
WSU Accessibility Dashboard

Show the **trending health** of
web accessibility at WSU

dashboard.wsu.edu/accessibility
Solve the problem
(People)
The 3 Rs of Accessibility

Realistics
Resources
Restrictions
Realistic

Not every content creator will be a WCAG expert
Realistic

Not every content creator is a designer
Realistic

Publish **semantic content**, not **design** with content
Resource

Guides, training, and tools

web.wsu.edu/accessibility
Resource

Web components and reusable examples
Resource

Community and a sense of urgency, empathy
Restriction

Content is created in an accessible way
An H2 header on the post

An H4 header under that header

An H3 header on the post
Document Outline

H2 An H2 header on the post

H4 An H4 header under that header *(Incorrect heading level)*

H3 An H3 header on the post
Document

Block

Text Color

- Pink
- Red
- Orange
- Yellow
- Green
- Blue
- Light Blue
- White
- Gray
- Black
- Multicolored
add_action( 'after_setup_theme', 'add_my_cp' );

function add_my_cp() {
    add_theme_support( 'gutenberg', array( 'colors' => array( '#191919', '#333333', '#fa5735', '#f3f3f3', '#f3f3f3' ), ) );
}
Restriction

Custom blocks (shortcodes)
Managing accessible content on thousands of sites

@jeremyfelt
jeremyfelt.com/wcus-2017/