

9-20-2019

Addressing Accessibility in WebPAC: Using a Web Tool to Identify and Fix Issues

Chris Deems

Ohio Northern University, c-deems@onu.edu

Follow this and additional works at: https://digitalcommons.onu.edu/hml_faculty



Part of the [Scholarly Communication Commons](#)

Recommended Citation

Deems, Christopher. "Addressing Accessibility in WebPAC: Using a Web Tool to Identify and Fix Issues." OH-IUG 2019, Ohio Innovative Users Group Conference, 20 Sep 2019, State Library of Ohio, Columbus, OH. Lightning Talk.

This Conference Proceeding is brought to you for free and open access by the Heterick Memorial Library at DigitalCommons@ONU. It has been accepted for inclusion in Heterick Faculty Scholarship by an authorized administrator of DigitalCommons@ONU. For more information, please contact digitalcommons@onu.edu.

Addressing Accessibility in WebPAC

Chris Deems, MSIS
Systems and Technology Librarian
Ohio Northern University

Brief Background

- Ohio Northern University
 - Small private university
 - 2,855 FTE (Fall 2019)
- Two libraries on campus
 - Heterick Memorial Library
 - Taggart Law Library
- Project began as design revamp of libraries' catalog
 - Coincide with ONU website redesign/update
 - Found issues with accessibility while exploring webpage



Accessibility Tools Used

- Guidelines for web accessibility:
 - [Web Content Accessibility Guidelines \(WCAG\) 2.1](#)
 - [LibA11y, a guide to making library content accessible](#)
 - [Total11y, from Khan University](#)
 - Browser extension that can detect accessibility issues on webpages
 - [Contrast Checker, from WebAIM](#)
 - Details whether color contrast ratios meet WCAG AA and AAA regulations
-

Accessibility Project Workflow

1. Use Total11y to find issues and impacted code
 - a. Use Contrast Checker, if applicable
 2. Copy information to Google Sheets for tracking
 - a. Include recommended solutions and comments
 3. Update impacted code in WebPAC
-

POLAR Catalog ONU libraries

New Search Help Login
Taggart Law Library Heterick Memorial Library

Course Reserves Renew Materials Track OHIOLINK Requests My Library Account Comments / Suggestions

(More Searches) [dropdown arrow]

Keyword [input] View Entire Collection [dropdown] Submit
[Advanced Search](#) | [Number Searches](#)

- Headings**
Highlights headings (<h1>, <h2>, etc) and order violations
- Contrast**
Labels elements with insufficient contrast
- Link text**
Identifies links that may be confusing when read by a screen reader
- Labels**
Identifies inputs with missing labels
- Image alt-text**
Annotates images without all text
- Landmarks**
Labels all ARIA landmarks
- EXPERIMENTAL
- Screen Reader Wand**
Hover over elements to view them as a screen reader would



- [DVDs](#)
- [Juvenile Books](#)
- [Journal Finder](#)
- [OHIOLINK Central Catalog](#)
- [Zotero](#)
- [Interlibrary Loan](#)

Headings Annotate: [checkbox] [x]

▼ **First heading is not an <h1>** [magnifying glass]

To give your document a proper structure for assistive technologies, it is important to lay out your headings beginning with an <h1>. We found an <h2> instead.

Relevant code:

```
<h2 class="topLogoText">POLAR Catalog<br>ONU libraries</h2>
```

Summary Errors **1**

POLAR Catalog ONU libraries

New Search Help Login
Taggart Law Library Heterick Memorial Library

Course Reserves Renew Materials Track OHIOLINK Requests My Library Account Comments / Suggestions

(More Searches) [Dropdown Arrow]

Keyword [Input] View Entire Collection [Dropdown] Submit
[Advanced Search](#) | [Number Searches](#)

- Headings**
Highlights headings (<h1>, <h2>, etc) and order violations
 - Contrast**
Labels elements with insufficient contrast
 - Link text**
Identifies links that may be confusing when read by a screen reader
 - Labels**
Identifies inputs with missing labels
 - Image alt-text**
Annotates images without alt text
 - Landmarks**
Labels all ARIA landmarks
- EXPERIMENTAL
- Screen Reader Wand**
Hover over elements to view them as a screen reader would



- [DVDs](#)
- [Juvenile Books](#)
- [Journal Finder](#)
- [OHIOLINK Central Catalog](#)
- [Zotero](#)
- [Interlibrary Loan](#)

Image alt-text Annotate: [X]

Image is missing alt text

This image does not have an associated "alt" attribute. Please specify the alt text for this image like so:

```

, <h2>, etc) and order violations
- Contrast**  
Labels elements with insufficient contrast
- Link text**  
Identifies links that may be confusing when read by a screen reader
- Labels**  
Identifies inputs with missing labels
- Image alt-text**  
Annotates images without alt text
- Landmarks**  
Labels all ARIA landmarks
- EXPERIMENTAL**
- Screen Reader Wand**  
Hover over elements to view them as a screen reader would

Great Gatsby

[of publication not identified] : Bazmark Film III Pty Ltd., [2013] 2013

to Electronic Content

| LOCATION           | CALL NO.            | STATUS    |
|--------------------|---------------------|-----------|
| L 2nd Floor - DVDs | 791.4372 G7863 2013 | AVAILABLE |

Great Gatsby

ood, Calif. : Paramount Home Video, 2003 2003

to Electronic Content

| LOCATION           | CALL NO.            | STATUS    |
|--------------------|---------------------|-----------|
| L 2nd Floor - DVDs | 791.4372 G7863 1974 | AVAILABLE |

Great Gatsby

rk : New Video, [2000] 2000

to Electronic Content

| LOCATION           | CALL NO.      | STATUS    |
|--------------------|---------------|-----------|
| L 2nd Floor - DVDs | 813.52 F55gme | AVAILABLE |

Great Gatsby and Fitzgerald's world of ideas

n, Ronald

osa : University of Alabama Press, c1997 c1997

3.47 (?) Additional Info:



**Contrast** Annotate: [x] [x]

Insufficient contrast ratio (3.47 < 4.5) [x] / [x]

The color combination #67c70/#e7e7e7 has a contrast ratio of 3.47, which is not sufficient. At this size, you will need a ratio of at least 4.5.

Consider using the following foreground/background combination:

#636a5b/#e7e7e7 [x] / [x] has a ratio of 4.54

Preview: [x]

Relevant code:

```
<td
class="browseResourceTableHeader">Additional
```

Errors 1



# POLAR Catalog ONU libraries

Course Reserves   Renew Materials   Track OHIOLINK Requests   My Library Account   Comments / Suggestions

New Search   Help   Login  
Taggart Law Library   Heterick Memorial Library  
(Search History)

(More Searches)

KEYWORD   Great Gatsby   View Entire Collection   Search

Limit search to available items

30 results found. Sorted by relevance | [date](#) | [title](#)

Add Marked to Bag   Add All On Page   Add Marked to My Lists

KEYWORDS (1-30 of 30)

Most relevant titles entries 1-10

Additional Info:



## The great Gatsby

[Place of publication not identified] : Bazmark Film III Pty Ltd., [2013] 2013

[Link to Electronic Content](#)



DVD

LOCATION	CALL NO.	STATUS
HML 2nd Floor - DVDs	<a href="#">791.4372 G7863</a> 2013	AVAILABLE



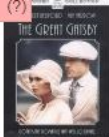
## The great Gatsby

Hollywood, Calif. : Paramount Home Video, 2003 2003

[Link to Electronic Content](#)



DVD



LOCATION	CALL NO.	STATUS
HML 2nd Floor - DVDs	<a href="#">791.4372 G7863</a> 1974	AVAILABLE



## The great Gatsby

New York : New Video, [2000] 2000

[Link to Electronic Content](#)



DVD



LOCATION	CALL NO.	STATUS
HML 2nd Floor - DVDs	<a href="#">813.52 F55gme</a>	AVAILABLE



## The great Gatsby and Fitzgerald's world of ideas

Berman, Ronald  
Tuscaloosa : University of Alabama Press, c1997 c1997

Link text

Annotate:

### Link text is unclear

The text "" is unclear without context and may be confusing to screen readers. Consider rearranging the `<a></a>` tags or including special screen reader text.

Relevant code:

```

```

Link text is unclear

Link text is unclear

Link text is unclear

Link text is unclear

Errors **38**

# POLAR Catalog ONU libraries

New Search Help Login

Taggart Law Library Heterick Memorial Library

(Search History)

Course Reserves Renew Materials Track OHIOLINK Requests My Library Account Comments / Suggestions

(More Searches)



KEYWORD Great Gatsby View Entire Collection Search

30 results found. Sorted by relevance | date | title .

Add Marked to Bag Add All On Page Add Marked to My Lists

KEYWORDS (1-30 of 30)

Most relevant titles entries 1-10

Additional Info:



## The great Gatsby

[Place of publication not identified] : Bazmark Film III Pty Ltd., [2013] 2013

[Link to Electronic Content](#)



DVD

LOCATION	CALL NO.	STATUS
HML 2nd Floor - DVDs	<a href="#">791.4372 G7863</a> 2013	AVAILABLE



## The great Gatsby

Hollywood, Calif. : Paramount Home Video, 2003 2003

[Link to Electronic Content](#)



DVD

LOCATION	CALL NO.	STATUS
HML 2nd Floor - DVDs	<a href="#">791.4372 G7863</a> 1974	AVAILABLE



## The great Gatsby

New York : New Video, [2000] 2000

[Link to Electronic Content](#)



DVD

LOCATION	CALL NO.	STATUS
HML 2nd Floor - DVDs	<a href="#">813.52 F55gme</a>	AVAILABLE



## The great Gatsby and Fitzgerald's world of ideas

Berman, Ronald  
Tuscaloosa : University of Alabama Press, c1997 c1997

Labels

Annotate:  ✕

### Input is missing a label

You can give this element an `id` attribute and build a `<label>` with a corresponding `for` attribute like so:

```
<label for="my-input">
 Label text here...
</label>
<input id="my-input">
```

Relevant code:

```
<input type="image"
src="/screens/ico_go.gif"
class="searchNavBut" value="Go">
```

Errors **32**

---

# Project Hurdles

- ONU website updated sooner than originally scheduled
  - Still gaining familiarity with WebPAC
  - Other job responsibilities arose and took priority
-

---

---

# Future Goals

- Deep dive into further accessibility testing
  - Develop annual routine and guidelines for checking library accessibility
  - Continue catalog design revamp
-

---

---

# Questions?

Contact info:  
c-deems@onu.edu  
419-772-2183

---