

HEALTH SCIENCE LIBRARY HOMEPAGE CRITIQUE

David King, Jr.

Presented @ UofL – September 11, 2019



WHO IS THIS GUY?



DAVID KING, JR.

- SW Engineer & Web App Developer
- Educator's heart
- Artist (theatre, drawing & painting)
- Spacemacs/VIM user
- Cardinal trapped in Gator land for the past 12 years
- Father of a cat

Enough about me...
Let's get to it!

EVALUATION CRITERIA

Some of the criteria I used to evaluate a homepage



- Visual appeal
- Engaging user interface
- Layout consistency
- Good use of graphics
- *Pixel perfection?!?*



FUNCTION

- Passive or Active Voice
- Describes what the library has to offer
- Provides address/location/availability
- Provides staff information
- Library news/updates
- *What is the library special for?*



ACCESSIBILITY

- W3C standards (Alt, Aria, etc.)
- HTML5 semantic markup (header, footer, etc.)
- Keyboard navigation
- Screen reader friendly
- Contrasting colors

Let's look at some sites...

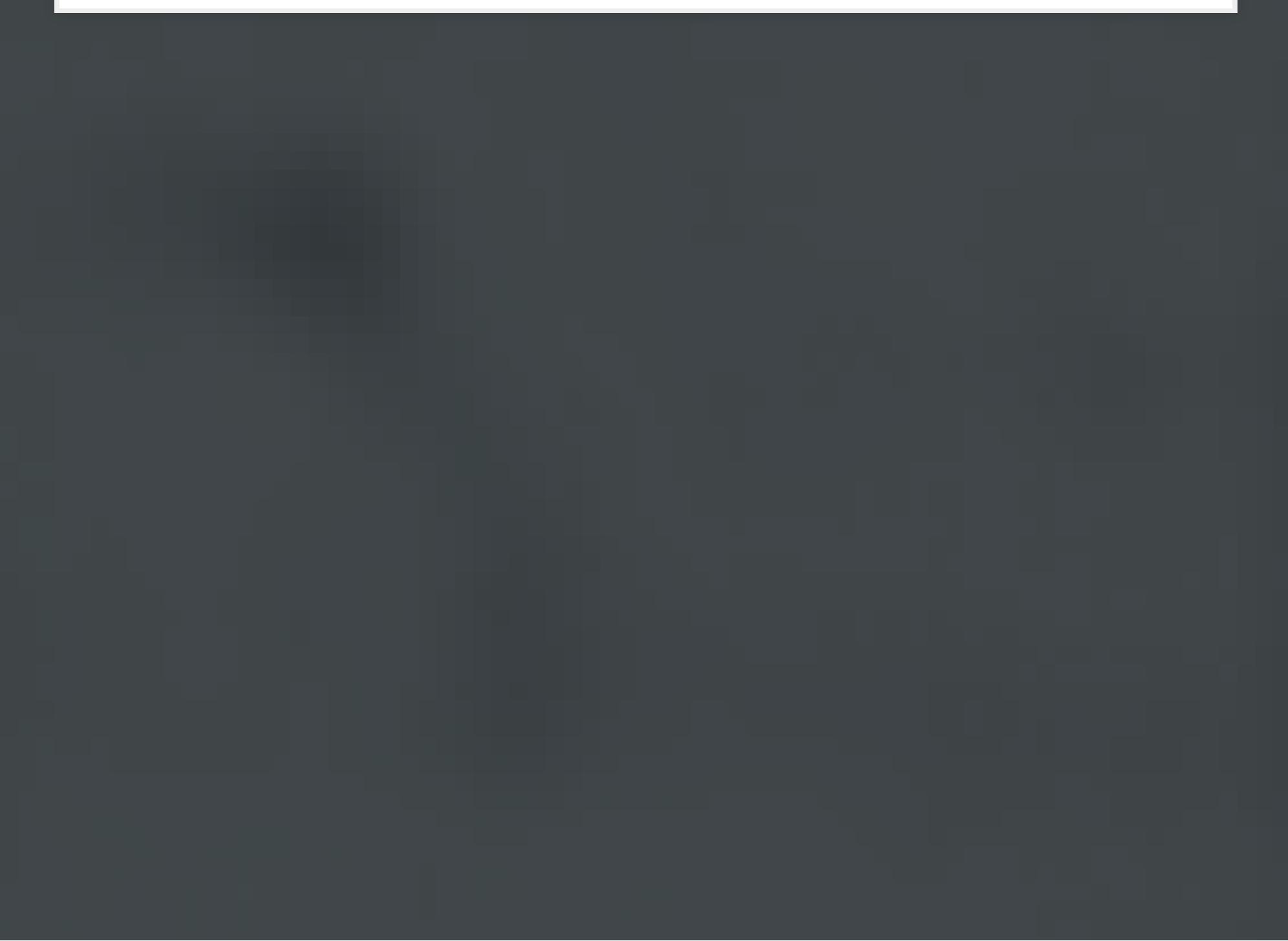
BAYLOR HEALTH SCIENCES LIBRARY

- Wordpress-Based Site (PHP)
- Bootstrap CSS Framework
- Uses custom template with semantic markup
- Keyboard navigation is good

WHAT I LIKE...

The screenshot shows the Baylor Health Sciences Library website homepage. The top navigation bar includes tabs for Primo All Search, Catalog, Databases, eBooks, eJournals, and Research Guides. A search bar is integrated into the masthead. Below the navigation is a banner for the Research Spotlight, featuring a grid of portraits and the text "ResearchSpotlight". The main content area includes sections for NEWS AND EVENTS, RESEARCH, and SERVICES. The SERVICES section lists Interlibrary Loan/Get it for me, Off Campus Access, Literature Search Request, Ask a Librarian, and Renew a Book. The RESOURCES section lists Primo All Search, Catalog, Databases, eJournals, and Research Guides. The RESEARCH section highlights Recent Publications from the Baylor Scott & White Community. The bottom of the page features social media links, a map, and contact information for Baylor Scott & White Health.

- 1 Integrated search in hero/masthead
- 2 Various tabs provide more useful options
- 3 Library News
- 4 Research focus box next to news
- 5 Info/link boxes are consistent and mostly the same height (mostly).



WHAT I DON'T LIKE...

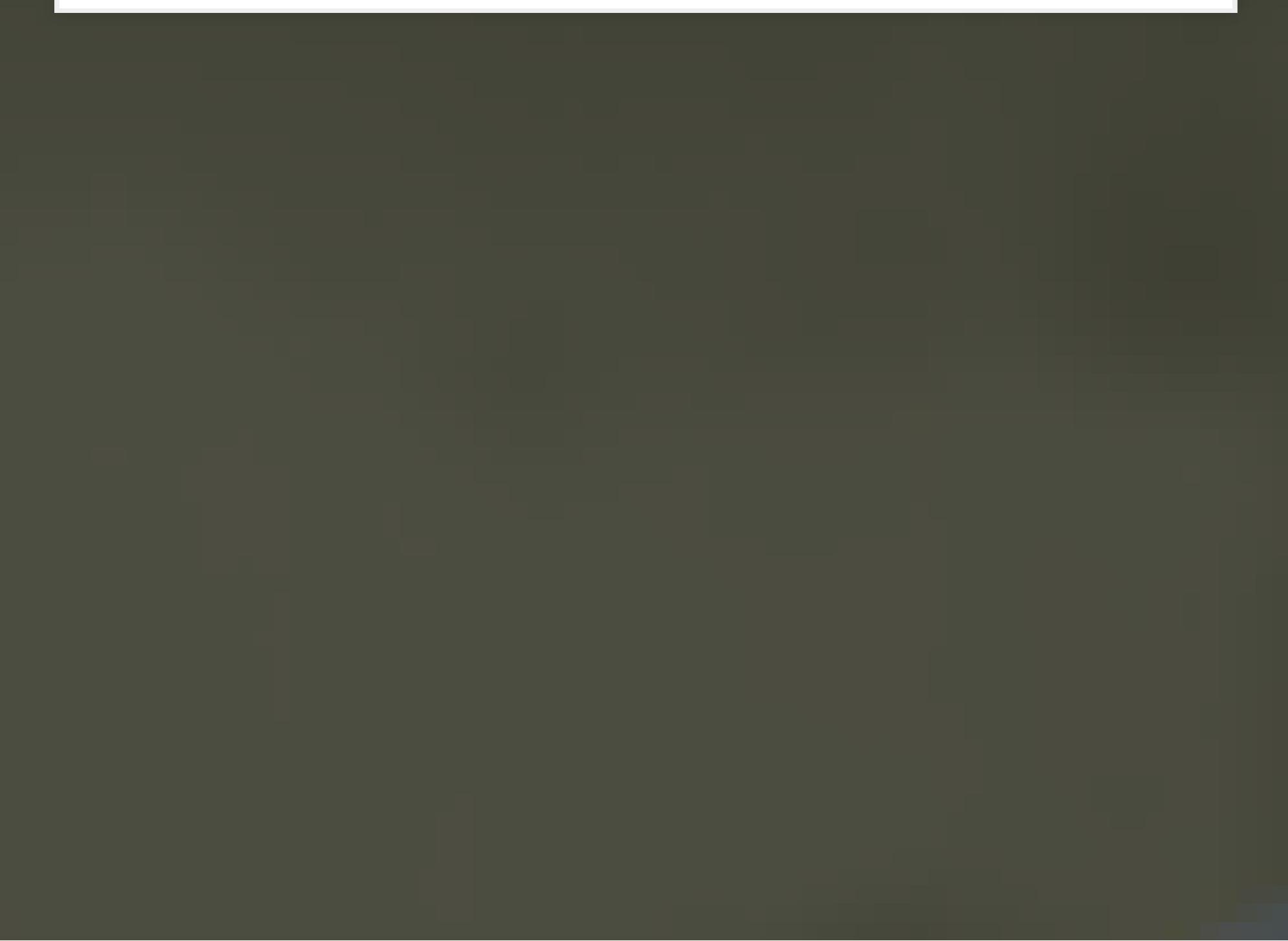
The screenshot shows the homepage of the Baylor Health Sciences Library. At the top, there's a banner with book spines and the text "Search. Discover. Share.". Below the banner is a dark blue header bar with several tabs: "Primo All Search", "Catalog", "Databases" (which has a red arrow pointing to it from the first bullet point), "eBooks", "eJournals", and "Research Guides". A search bar is positioned below these tabs. Further down, there are sections for "NEWS AND EVENTS" (with a grid of 2018 publications from Baylor Scott & White) and "RESEARCH" (with a "Research Spotlight" section). The footer contains links for "SERVICES" (Interlibrary Loan, Off Campus Access, etc.), "RESOURCES" (Primo All Search, Catalog, etc.), "ABOUT" (Contact, FAQs, etc.), and "HOURS" (Library hours by day). Social media links and the Baylor Scott & White logo are also present.

1 Big problem clicking this tab—does not function like other tabs

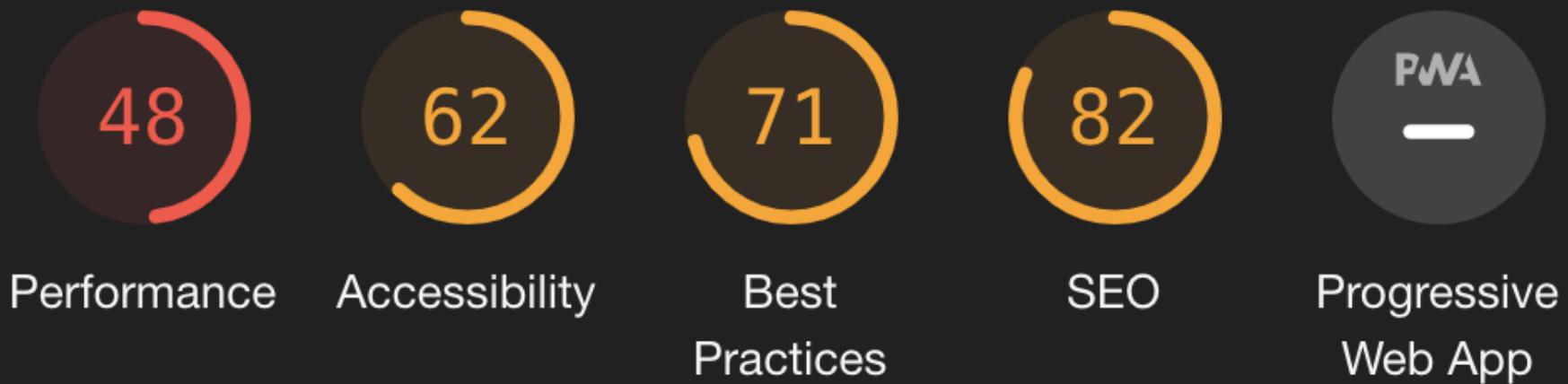
2 Switch search via tabs (not global)

3 Content not full-width (arbitrary whitespace)

4 Poor accessibility score



ACCESSIBILITY SCORE



0–49

50–89

90–100

ACCESSIBILITY REPORT

This report provides an overview of the accessibility features and challenges of our website.

The report is organized into several sections:

- Introduction and Scope

- Section 508 Compliance

- WCAG 2.1 AA Compliance

- Mobile Accessibility

- Screen Reader Support

- Keyboard Navigation

- Color Contrast

- Alt Text for Images

- Form Accessibility

- Video Accessibility

- PDF Accessibility

- API Accessibility

- Third-party Accessibility

- Future Work and Next Steps

The report concludes with a summary of findings and recommendations for improving website accessibility.



Accessibility

These checks highlight opportunities to [improve the accessibility of your web app](#). Only a subset of accessibility issues can be automatically detected so manual testing is also encouraged.

Contrast — These are opportunities to improve the legibility of your content.

- ▲ Background and foreground colors do not have a sufficient contrast ratio.

Best practices — These items highlight common accessibility best practices.

- ▲ [id] attributes on the page are not unique

Names and labels — These are opportunities to improve the semantics of the controls in your application. This may enhance the experience for users of assistive technology, like a screen reader.

- ▲ Image elements do not have [alt] attributes
- ▲ Form elements do not have associated labels
- ▲ Links do not have a discernible name

UC IRVINE GRUNIGEN MEDICAL LIBRARY

- Drupal-based Site (PHP)
- Bootstrap CSS Framework
- Uses custom template with semantic markup
- Keyboard navigation is good

WHAT I LIKE...

The screenshot shows the UCI Libraries homepage with several annotated features:

- 1** Visually appealing tabs: Points to the top navigation tabs: LIBRARY SEARCH, MELVYL CATALOG, and SITE SEARCH.
- 2** Clear search control: Points to the main search bar labeled "Search articles, books and more" with a magnifying glass icon.
- 3** Core resources Above-the-Fold: Points to the "Core Resources" section containing links to various databases and tools.
- 4** Appealing colors/ contrasting: Points to the "DynaMed Plus" hero box, which features a blue-toned image of a doctor and the word "New!" in white.
- 5** Well designed "Hero" box: Points to the "DynaMed Plus" hero box.

Find at GML

Services UCIMC About GML

Order Documents Computing Printing & Copying Equipment Loans

Evidence-Based Instruction Reserve a Room Mobile Printing

New Core Resources

BMJ Case Reports

BMJ Case Reports

BMJ Case Reports is a journal that delivers a focused, peer-reviewed, valuable collection of cases in all disciplines so that healthcare professionals, researchers and others can easily find clinically important information on common and rare conditions.

1 2 3 4 5

UCI Authors in PubMed

Z-isomerization of retinoids through combination...
Org Biomol Chem. 2019 Aug 28
Kahremany S, Sander CL, et al.

Indoor boundary layer chemistry modeling...
Indoor Air. 2019 Aug 28
Morrison G, Lakey PS, et al.

Intra-individual changes in methylome profiles: ...
Neuropsychopharmacology. 2019 Aug 30
Mortazavi A, Bararm TZ

Thyroid disease in end-stage renal disease...
Curr Opin Nephrol Hypertens. 2019 Sep 02
Rhee CM

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Comments and Suggestions
Accessibility | Site Map | UC Irvine Homepage

f t i y p

Visually appealing tabs

Clear search control

Core resources Above-the-Fold

Appealing colors/ contrasting

Well designed "Hero" box



WHAT I DON'T LIKE...

The screenshot shows the UCI Libraries homepage with several user interface issues highlighted:

- 1**: A red arrow points from the "SEARCH" button in the top navigation bar to the search input field, indicating muddled search control options.
- 2**: A red arrow points from the "More Hours" link in the header to the "DynaMed Plus" banner, suggesting better information or a call-to-action.
- 3**: A red arrow points from the "View more resources" button in the "Core Resources" section to the "DynaMed Plus" banner, suggesting combining these elements.
- 4**: A red arrow points from the "New Core Resources" section to the "UCI Authors in PubMed" sidebar, indicating dismissible help widget issues.

Core Resources

- Library Search
- AccessMedicine
- BMJ Best Practice
- BoardVitals Exam Prep Tool
- Case Files Collection
- CINAHL Complete
- Cochrane Library
- DynaMed
- Isabel
- LWW Health Library
- Micromedex
- NEJM Journal Watch
- NIH Policy Guide
- PubMed@UCI
- Scopus
- UpToDate
- VisualDx

Find at GML

- Services
- UCIMC
- About GML
- Order Documents
- Computing
- Printing & Copying
- Equipment Loans
- Evidence-Based Instruction
- Reserve a Room
- Mobile Printing

New Core Resources

BMJ Case Reports

UCI Authors in PubMed

Dismissable Help Widget can't be brought back

Need Help? Order Di

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Comments and Suggestions
Accessibility | Site Map | UC Irvine Homepage

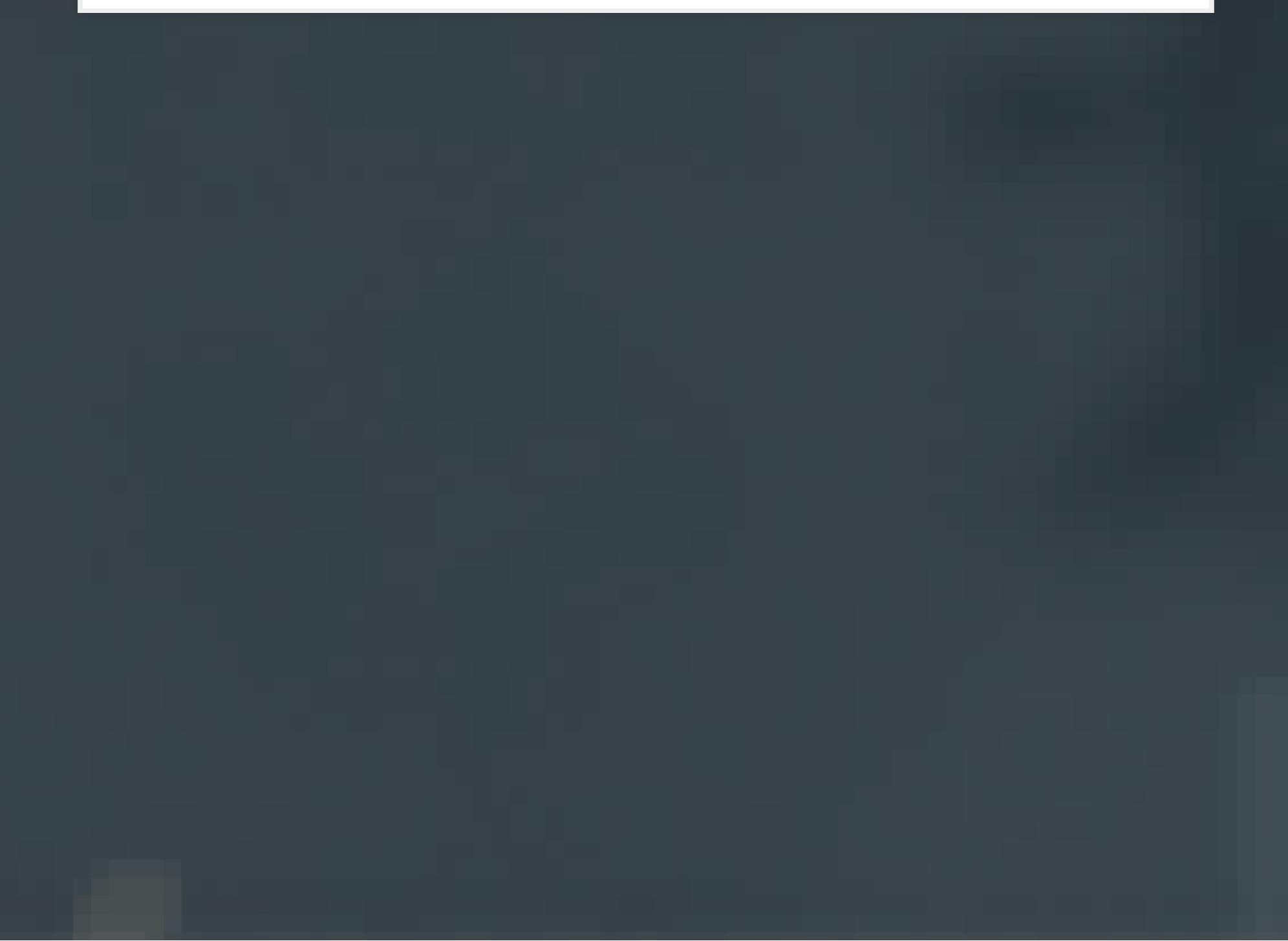
f t i ym p

Muddled search control options (tab, radios, etc.)

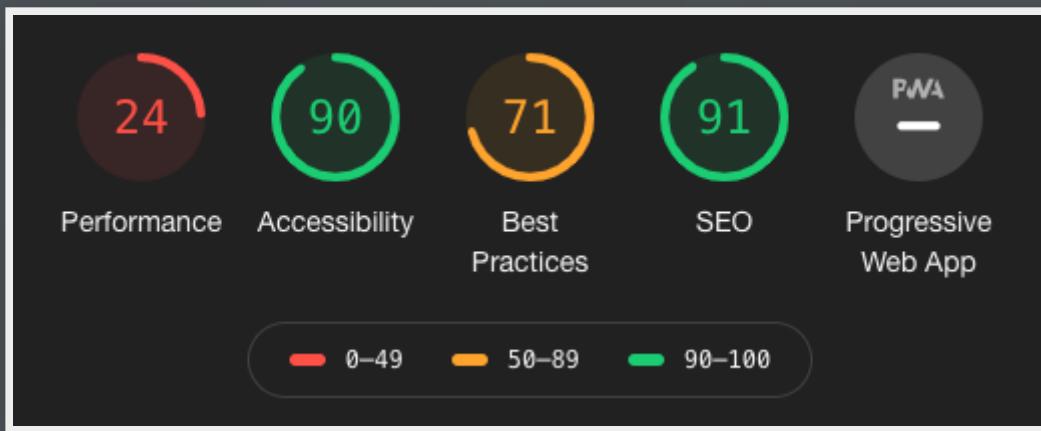
Needs better information on what this is or a Call-To-Action to click on it.

Should combine these into one with the slider and positioned where the DynaMed Plus banner is located.

Dismissable Help Widget can't be brought back



ACCESSIBILITY SCORE



ACCESSIBILITY REPORT



Accessibility

These checks highlight opportunities to [improve the accessibility of your web app](#). Only a subset of accessibility issues can be automatically detected so manual testing is also encouraged.

ARIA — These are opportunities to improve the usage of ARIA in your application which may enhance the experience for users of assistive technology, like a screen reader.

▲ [aria-*] attributes do not have valid values

Contrast — These are opportunities to improve the legibility of your content.

▲ Background and foreground colors do not have a sufficient contrast ratio.

Best practices — These items highlight common accessibility best practices.

▲ [id] attributes on the page are not unique

Additional items to manually check (11) — These items address areas which an automated testing tool cannot cover.

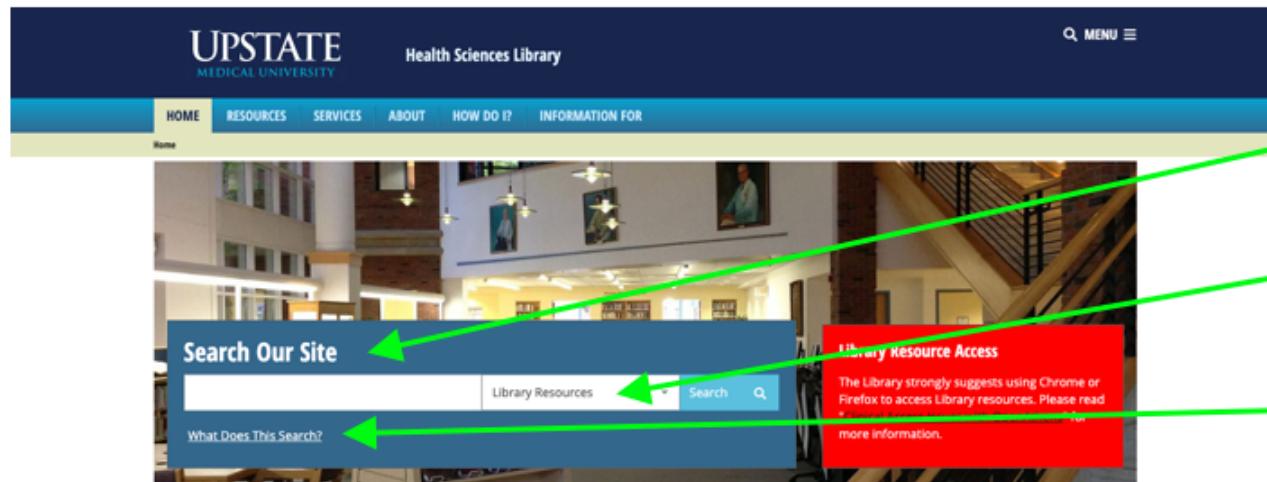
Learn more in our guide on [conducting an accessibility review](#).

SUNY UPSTATE MEDICAL COLLEGE

HEALTH SCIENCES LIBRARY

- Custom CMS (PHP)
- Bootstrap CSS Framework
- Custom semantic markup
- Keyboard navigation is good

WHAT I LIKE...



1 Global Search!

2 Dropdown filter vs.
Tabs or Radio
buttons

3 On-screen help

4 Good mixture of
2 and 3-column
layouts

Health Sciences Library

Notice: Beginning July 15, 2019, journal searching and article linking available from these webpages will begin to be redirected through a new system called Primo. The transition from different vendors to the new system will occur through the end of July. For more information, visit the library's page on [Primo](#).

As of May 22nd, all Library Resources will need to be accessed through OpenAthens. For more information, go to our [OpenAthens LibGuide](#).

Quick Links

Access Suite	CINAHL	Cochrane Library
Embase	EndNote	Lexi-Comp
Medline (Ovid)	Nursing Reference Center +	PsycINFO
PsychiatryOnline	PubMed	RefWorks
Scopus	UpToDate	VisualDx

Library Hours

Saturday, September 7, 2019	
Health Sciences Library	10:00am - 9:00pm
Reference	10:00am - 2:00pm
Archives and Special Collections	Closed
View Library Hours	(i)

Library Services

The Health Sciences Library provides a wide-range of services for various audiences.

- [InterLibrary Loan](#)
- [Study Rooms](#)
- [Literature Search Request](#)
- [Suggest A Purchase](#)

Resources

The Health Sciences Library provides access to a multitude of electronic resources and curated content guides.

- [Databases](#)
- [eBooks](#)
- [Journals by Title](#)
- [Subject Guides](#)

4

Contact The Library

Always here and available to help. Let us know how we can help serve you better!

- [315-464-7091](#)
-
-
-
-
- [Staff Directory](#)
- [Library Chat](#)
- [Email the Library](#)

Archives & Special Collections



Reference Services



Library Outreach





[Archives & Special Collections](#)



The Archives and Special Collections department is comprised of two units: University Archives, and Special Collections. The collections are open to the public and available for use on the second floor of the Health Sciences Library.

[Archives & Special Collections](#) >

[Reference Services](#)



Our librarians are dedicated to supporting the academic, research, and clinical activities of Upstate Medical University by meeting the information needs of our customers through the provision of individualized services.

[Reference Services](#) >

[Library Outreach](#)



The staff of Upstate Sciences Library promotes a healthy community through a variety of activities in the greater CNY area.

[Library Outreach](#) >

[Library News](#)



Therapy Dog Thursday is Back! - Sept 5

HSL Labor Day Weekend Hours
Labor Day weekend hours at the Health Sciences Library

[LIBRARY NEWS](#)

Performance update on the new library search interface Primo

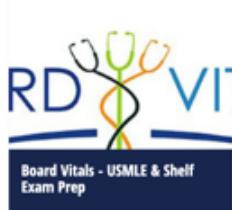
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[ITEMS OF INTEREST](#)

Information for users of EndNote on a Mac

With the release of macOS 10.15 Catalina, Apple will be ending support for 32-bit application support, which will impact EndNote. EndNote will issue...

[ITEMS OF INTEREST](#)



Twanna Hodge Receives CLRC Professional Development Award

Twanna Hodge was named one of Central New York Library Resource Council's (CLRC) most recent award recipients for the Professional Development Awards.

[LIBRARY NEWS](#)

EndNote version 9 now available

EndNote users, please visit our downloads page to update to version 9. Your existing EndNote libraries will remain intact and accessible from EndNote...

[ITEMS OF INTEREST](#)

August Facility Updates

Health Sciences Library facility updates for August 2019

[LIBRARY NEWS](#)

Well aligned
info boxes with
consistent layout

5

[Upstate Medical University](#)
[Upstate Leadership](#)
[Mission, Vision, Values](#)
[College of Medicine](#)
[College of Nursing](#)
[College of Health Professions](#)
[College of Graduate Studies](#)
[Health Sciences Library](#)
[Alumni & Friends](#)
[Visitor's Guide](#)

[Patient Care](#)
[Upstate University Hospital](#)
[Upstate Golisano Children's Hospital](#)
[Upstate University Hospital at Community](#)
[Upstate Cancer Center](#)
[Women's Health](#)
[Find a Doctor](#)
[MyChart](#)

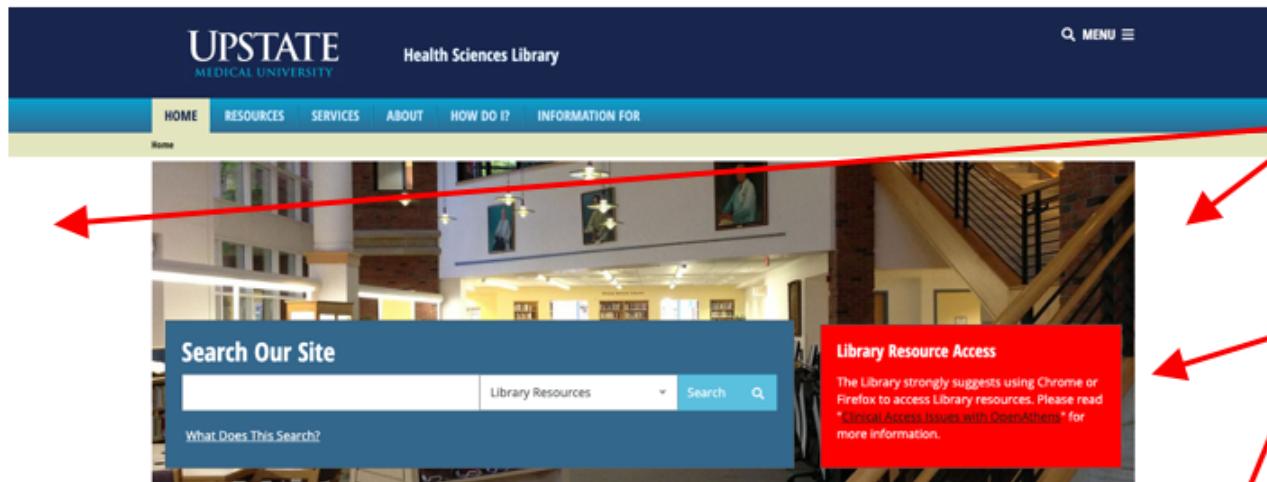
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WHAT I DON'T LIKE...



Wasted space.
Content area should
be full screen.

Swap these boxes
for consistency

Header sizes are
different sizes on the
same plane

This button could be
moved to clickable
header.

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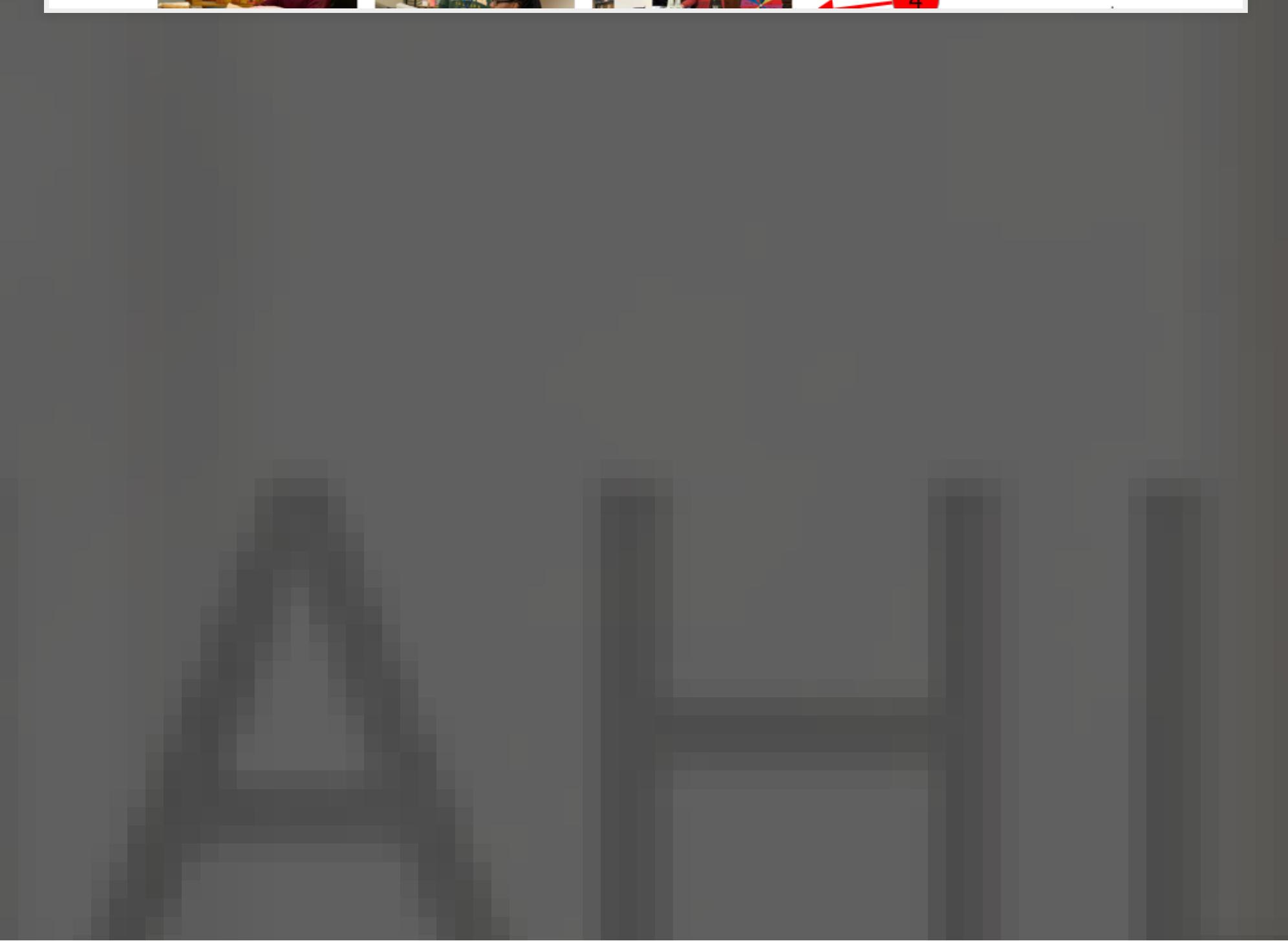
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Library Outreach



These box heights



[Archives & Special Collections](#)



The Archives and Special Collections department is comprised of two units: University Archives, and Special Collections. The collections are open to the public and available for use on the second floor of the Health Sciences Library.

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[Library Outreach](#)



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4

These box heights
are not equal.

[Library News](#)



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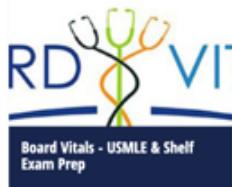
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Board Vitals - USMLE & Shelf Exam Prep

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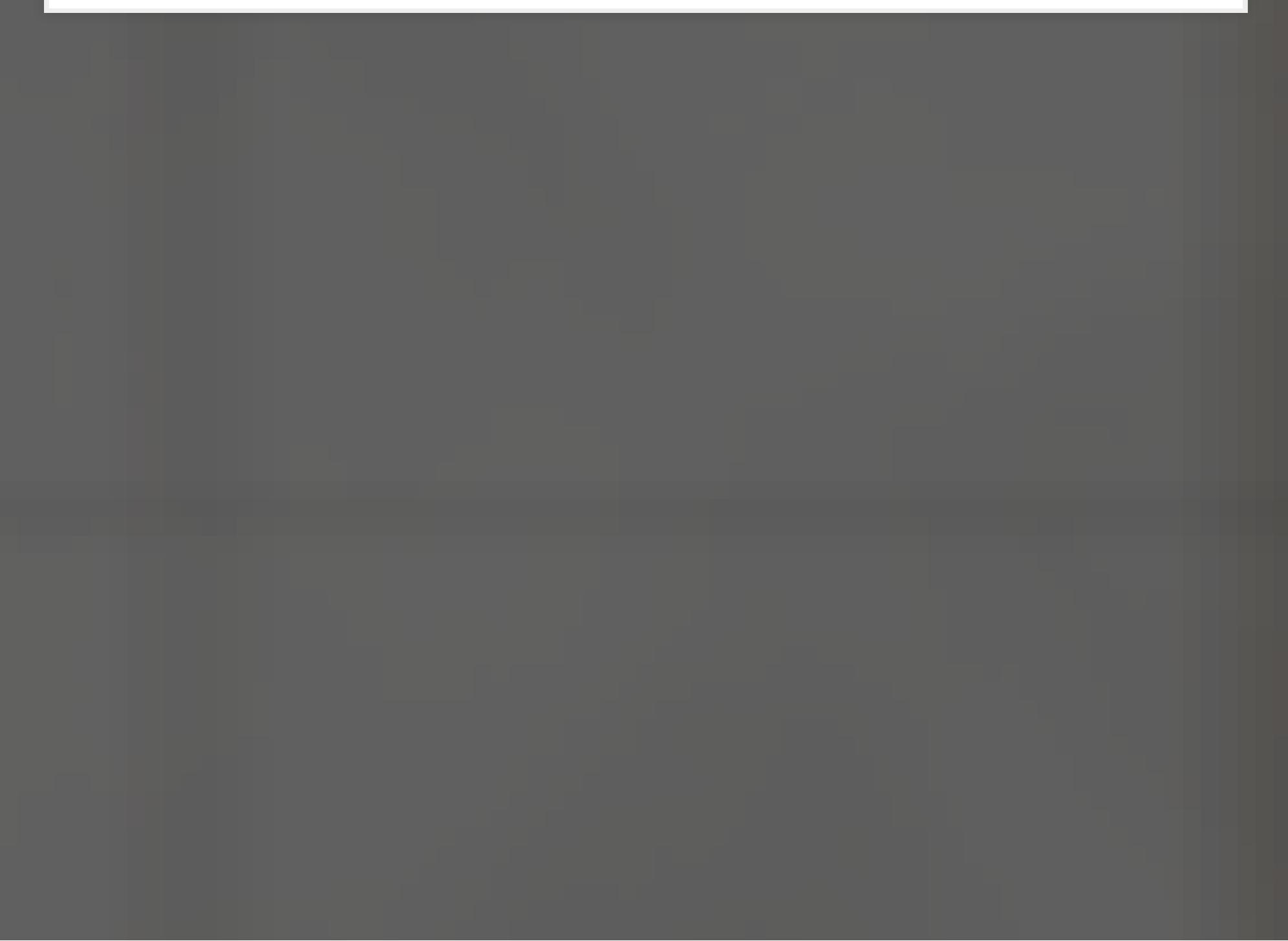
[Volunteer](#)

[Give to Upstate](#)

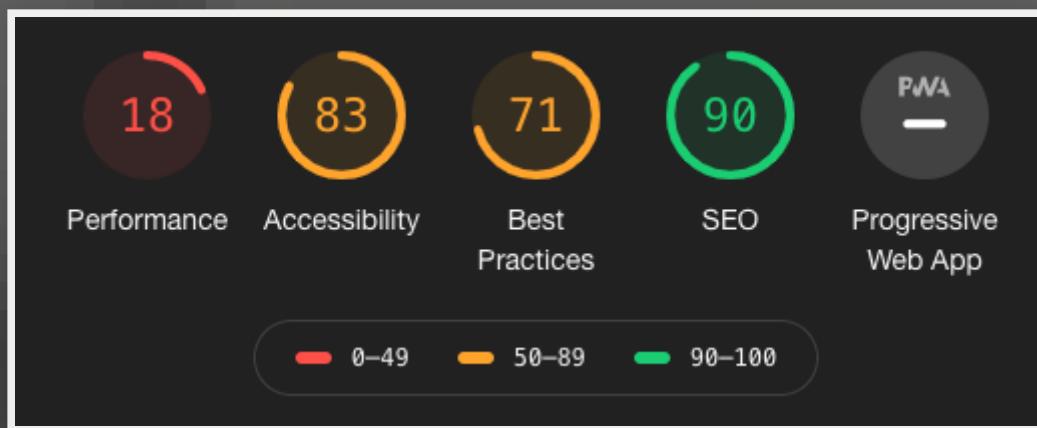
[Contact](#)

[iPage](#)





ACCESSIBILITY SCORE



ACCESSIBILITY REPORT

83

Accessibility

These checks highlight opportunities to [improve the accessibility of your web app](#). Only a subset of accessibility issues can be automatically detected so manual testing is also encouraged.

Contrast — These are opportunities to improve the legibility of your content.

- ▲ Background and foreground colors do not have a sufficient contrast ratio.

Tables and lists — These are opportunities to to improve the experience of reading tabular or list data using assistive technology, like a screen reader.

- ▲ <dl>'s do not contain only properly-ordered <dt> and <dd> groups, <script> or <template> elements.

Names and labels — These are opportunities to improve the semantics of the controls in your application. This may enhance the experience for users of assistive technology, like a screen reader.

- ▲ Form elements do not have associated labels
- ▲ Links do not have a discernible name

SOME TAKEAWAYS

- Library websites are not just utilities
- Library websites are evolving but lag behind greater organization pages
- Need more emphasis on active voice (calls-to-action, etc.)
- Lots of noise on pages (abundance of links without context)

IMPROVEMENTS

- Have a Call-To-Action, a focal point beyond just search
- Improve layouts (equisize boxes, pixel perfect CSS, etc.)
- Use a layout editor (Sketch, Adobe XD, etc.) to layout pages first
- Reduce noise (cluster links into menus)
- Watch accessibility issues closely!

MY TOOLS AND TIPS

MY TOOLS AND TIPS

DESIGN

- Sketch (New!)
- Photoshop
- Screenflow
- Affinity Photo
(new)
- XD (Free Sketch
alt.)

MY TOOLS AND TIPS

DESIGN

- Sketch (New!)
- Photoshop
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alt.)

CODE

- Spacemacs
- A Live Reload
Server
- Various JetBrains
IDEs

MY TOOLS AND TIPS

DESIGN

- Sketch (New!)
- Photoshop
- Screenflow
- Affinity Photo
(new)
- XD (Free Sketch
alt.)

CODE

- Spacemacs
- A Live Reload
Server
- Various JetBrains
IDEs

TESTING

- Chrome DevTools
- Google Lighthouse
- Selenium
WebDriver

? QUESTIONS ?



This presentation was coded using
RevealJS