# Assets

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From dentification to inclusion Strategies for Assessing, Remediating, and Sustaining Digital

#### Background My experience

- Senior Accessibility Analyst at Siteimprove, since March 2022
- Previously:
  - Newspaper reporter turned web developer
  - Web Designer/Developer in IT at state university
  - Senior Web Designer/Developer in Institutional Marketing at state university

#### Agenda Who will benefit from this presentation?

- may not know where to start
- technology or organization type
- Topics:
  - Identifying Digital Properties
  - Accessibility Audit
  - Remediation Strategies
  - Digital Accessibility Policies
  - Education and Training

Accessibility beginners/novices who are tasked with making their website accessible and

• This is applicable to any type of organization, team size, CMS, framework, etc. Topics covered in this presentation are fairly high level and are not dependent on any specific

### Background **Office of Civil Rights (OCR) Complaint**

- 2017 OCR complaint filed against our domain
  - Some were automated checks that passed manual verification (i.e. color contrast)
  - Some of the elements identified were legitimate barriers
- Two people on the web team at the time
  - We oversaw all of the CMS sites
  - 50k+ pages, 400+ Site Authors with varying skill levels
  - Where do we even start?
- University Size (at the time)
  - Approximately 12,500 students, 700 Faculty
  - Population around 31,000

## Step 1: Identifying Digital Assets

#### Identification **Site Inventory Audit**

- Why perform an Inventory Audit?
  - Identify all digital properties across domain
    - (Pages, PDFs, subdomains, 3rd party systems)
  - Assign responsibility to content owner
  - Can help guide remediation strategies
- the domain
  - The web team knew what lived within the CMS, but...

    - We were also aware of other digital properties that lived on the domain What scared us most is what was out there that we didn't know about

• The scope of the OCR complaint meant that we were responsible for everything on

#### Identification How to Perform Inventory Audit

- Collaborated with IT department
  - Identify sites that had requested server space (outside the CMS)
  - Subdomains
- Site Crawlers
- Google Search Console
- Google Analytics

#### Identification **Site Inventory Audit**

- What we found:
  - Student websites
  - Faculty websites
  - Club/Organization Sites
  - IT Websites
  - Library Websites
  - Athletic Ticketing site
  - PDF Documents (Human and Machine Generated)
  - Third Party applications

#### Identification Now what?

- Start assigning an owner to each property
- CMS Cleanup
- Domain cleanup
  - Sites outside of the CMS were given three options:
    - Move into the CMS
    - Move into LMS
    - Remove university branding and move to private hosting
    - There was an exemption process, but started being abused

Step 2: Accessibility Testing

## **Accessibility Audit** Automated vs. Manual testing

- Automated testing
  - Great at covering the breadth of your site
  - Great at identifying trends
  - Con:
    - Only 20-30% of WCAG success criterion can be checked automatically
- Manual testing

  - Performed using multiple testing environments and assistive technology
  - Con:
    - Representative sampling of page templates

• A comprehensive accessibility strategy includes both automated and manual testing

Human performed conformance testing covering all WCAG Success Criterion

• Some WCAG checks are subjective (may get different results across testers)

### **Accessibility Audit** Why perform a manual accessibility audit

- Benefits of hiring an external auditor
  - Eliminates bias to get a true sense of existing barriers
    In both testing and reporting
  - Let someone else be the bearer of bad news
  - Subject matter experts in the nuances of WCAG and user types
  - Access to resources and tools you might not have
    - Screen readers and the training to know how to use them
    - Knowledge on how to test certain techniques

#### **Accessibility Audit RFP to find accessibility vendor - 2018**

• We wrote a Request for Proposal to find a third party accessibility vendor Obtained their automated accessibility checker and reporting tool Vendor performed manual testing on a representative sampling of pages • We also purchased a block of support hours which we utilized to help us

- - Develop a Corrective Action Plan
  - Consult on code fixes and re-testing certain modules

Step 3: Role Based Training

## **Role Based Training** Providing training for users based on the content they create

- remediate existing code
  - Template level coding/remediation
  - Developing accessible and reusable components
  - Solid understanding of ARIA roles and attributes
  - Using semantic HTML elements
- Content authors generally need more guidance on content level issues
  - Page structure and formatting content
    - Lists
    - Headings
  - Providing context
    - Writing appropriate alt text
    - Descriptive heading and labels
  - Color contrast

• Developers will need more code-based accessibility training to develop accessible templates and

### **Role Specific Training** What did we do?

- Web team was approved to attend WebAIM's In-Person Accessibility training
- Weekly CMS Office Hours
- Collaborated with our IT Trainer to start incorporating accessibility best practices into CMS training classes
  - This eventually led to the creation of a Web Accessibility training course that was required to gain access to the CMS (more about this later)
  - We tried to have at least one person from the web team attend these monthly trainings to answer CMS and accessibility related questions



## Step 4: Digital Accessibility Policies

### **Digital Accessibility Policies Policies**

#### • Policies:

- Reduce legal risk by defining which standards and conformance level you are adhering to
- Set expectations for internal and external audiences
- Can narrow the scope of work
- Streamline future development by setting clear guidelines
- Strengthen your commitment to inclusive access
- Lay out the repercussions if the policy is not met
- Take the time to ensure that it is thorough, concise, and **enforceable**



## **Digital Accessibility Policies** What should be in your policy? (My opinion)

- Define your WCAG version and level that your organization agrees to adhering to • For most organizations, that will be WCAG 2.1 Level AA
- Existing content
  - Set a cutoff date and archive any content that hasn't been updated since that date. • News articles, blog posts, pages, documents
- - Archive or remove old content
  - This will reduce the amount of content that needs to be remediated
  - Timeline for remediating existing content
- New Content
  - Should meet or exceed the standard defined in your policy
  - Workflows that ensure new content is being developed and checked for compliance
    - Role specific training
    - Monthly automated checks
    - Randomly selected pages for manual testing

## **Digital Accessibility Policies Communication Strategy**

- Begin communicating the importance of inclusive access
  - For internal audiences
    - Why accessibility matters
    - Communicate expectations of having a website and timelines
  - External audiences
    - User feedback surveys
    - formats? (Do they know about it?)
- Highlight wins, even the small ones!



• Is there a method provided for users to report barriers and request alternative

## **Digital Accessibility Policies Our policy**

- Mandated all CMS site authors take a Website Accessibility training course that was developed by our IT Trainer and Web Team
  - Online, Self-paced training in our LMS
  - If site authors failed to complete the training by the deadline, their CMS access was removed
- New site authors were required to complete the standard CMS training course and website accessibility training
- We started adding accessibility tips and tricks to our monthly CMS newsletters Began communicating our goals, timelines, and expectations of our site authors

**Step 5: Remediation Strategies** 

#### Remediation What to do after you get your results

- to get to work!
- structure.
- Establish priority levels that make sense for your organization
  - There is no universal standard for priority levels, but that's a good thing!
  - number of pages affected by issue, or any combination of metrics.

• You've done your domain cleanup, put in place your accessibility policies, developed role specific trainings, and now you've received your manual testing results. It's time

• There is no wrong way to prioritize your remediation. Your remediation efforts are going to depend on your resources, platform, third party integrations, and site

• Can be based off of conformance level, effort to remediate, total number of issues,

#### Remediation **Priority Examples**

- High Level A Medium - Level AA Low - Level AAA
- Severe Content blocking, Interactive elements cannot be reached
- Medium Missing accessible names, but can be determined through context
- Low Inaccurate alternative text

- High Combination of large user impact, frequently visited page, and/or high difficulty to fix
- Medium Combination of medium user impact, semifrequently visited page, and/ or moderate difficulty to fix
- Low Combination of low user impact, rarely visited page, and/or low difficulty to fix



#### Remediation **Template vs Content level issues**

- Template level
  - Example: Global elements (Headers/Footers/Sidebars/Cookie Banners/CSS)
  - Reusable components

  - Allows for fixing the issue in a single location and having it fixed sitewide • Requires less effort to have a big impact
- Content level
  - Example: Page structure, alt text
  - Each issue is unique and will need to be addressed individually
  - Responsibility of site authors

#### Remediation Other ways to prioritize

- Combination of Automated and Manual Testing results
  - One doesn't take priority over the other
- Issue Severity
  - Remediate content blocking barriers first
- Analytics
  - Fix high traffic pages first
  - Page with significant barriers, but little traffic might have lower priority
- Low hanging fruit
  - Issues that require little effort to fix

Step 6: Moving Forward



#### **Moving Forward** New content and ongoing maintenance

- Ensure new content is being created with accessibility in mind Accessibility requires continual effort, education, and resources
- Accessibility is everyone's responsibility
  - Admissions Ensuring application process is accessible
  - HR Hiring people with disabilities
  - Developers
  - Content Authors
  - Marketing
  - Faculty

## **Moving Forward** Shifting Left

- Accessibility shouldn't be an afterthought
- Integrate accessibility practices earlier and more frequently into the development/ content lifecycle
  - Move away from build first, remediate later
    - More expensive to remediate content than to build it accessible from the start
    - Takes resources from other projects or remediation efforts
- Shift to internal training that is specific to your internal tools, roles, branding, and marketing guidelines
- In-house SME's are now trained and have the tools to perform manual verification

### **Moving Forward Ongoing reports and accessibility checks**

- report for all known sites
- Going forward we would send these reports out on a quarterly basis
- elements that the site authors had no access to change
  - This resulted in a lot of frustration
- continued!

• After selecting and launching our accessibility tool, we generated an accessibility

One thing we quickly discovered was the automated checker was flagging global

• To resolve this, we created work-study positions that would generate these reports for departments and pull out the issues content authors couldn't fix on their own • After 2+ years of hard work, we were able to resolve our OCR complaint, but the work



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