The Human Side of Web Accessibility

Kristine Neuber, IT Accessibility Coordinator
Gerson Galicia, Testing Specialist

June 23, 2020
Today’s Agenda

- Session will cover the following:
  - How people with disabilities access the web.
  - Potential barriers encountered on inaccessible websites
Web Accessibility: What does it mean?

- People with disabilities can perceive, understand, navigate, and interact with information on the web.

- Regardless of their disability or the technology they use to access the site.

This is NOT Accessible – help!
BEYOND LAWS & REGULATIONS

WCAG 2.1 AA STANDARDS = ACCESS FOR ALL
Mason Students with Disabilities 2,097

- LD 227
- Autism 167
- ADD/ADHD 366
- Deaf/HI 44
- Physical 85
- VI/Blind 69
- Psychological 431
- Medical 301
- Other 407
How do People with Disabilities Access Digital Content?

Physical Disabilities
Vision Impairment
Hearing Impairment
Web Accessibility Benefits All

Disability

- Physical
- Blind/Low Vision
- Deaf/Hard of Hearing

Technology

- Broken Mouse
- Slow Internet
- Small Screen

Situational

- Poor lighting
- Loud or quiet environment
The no mouse challenge

• Technology breaks...

• People who do not have the use of their hands may not be able to use a mouse

• People with who are blind cannot use a mouse.

• Not to worry – we have not always had mice.. mouses… (whatever works for you).

• Your web site or application should operate without a mouse too.
Assistive Technology Used by People with Physical Disabilities

- Alternative Keyboards
- Voice Recognition
- Eye Gaze

Keyboard Compatibility Video
Voice Recognition

• Voice commands such as “Tab Key”, “Press Enter”

• Say the name of the link to activate.

• Use Mouse Grid

• [Voice Recognition Video](#)
Eye Gaze and Head Control

- Need to be able to look and maintain gaze on an item to select it.

Links, buttons, form fields, or an onscreen keyboard for typing

Want to try it – Explore Camera Mouse.

http://www.cameramous e.org/

Eye Gaze Video
Potential Barriers for Eye Gaze

• Small target areas

• Lack of a Cursor Focus Indicator

• Time limits
Screen reader users cannot use the mouse

Must rely on keyboard commands such as Tab, Enter, and specific keystrokes to navigate

If images are not labeled you may hear a long list of numbers
Potential Barriers for Screen Readers

- Missing Alternative Text for Images – Bonus if you have a slow internet connection the alt-text will show before the image loads.

- MouseOver Only
Use of Color

<table>
<thead>
<tr>
<th>Monday, June 22, 2020</th>
<th>Tuesday, June 23, 2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00pm</td>
<td>12:00am</td>
</tr>
<tr>
<td>8:00pm</td>
<td>1:00am</td>
</tr>
<tr>
<td>9:00pm</td>
<td>2:00am</td>
</tr>
<tr>
<td>10:00pm</td>
<td>3:00am</td>
</tr>
<tr>
<td>11:00pm</td>
<td>4:00am</td>
</tr>
<tr>
<td></td>
<td>5:00am</td>
</tr>
<tr>
<td></td>
<td>6:00am</td>
</tr>
</tbody>
</table>

- Green: Available
- Orange: Your Booking
- Red: Unavailable/Padding

Good High Contrasting Colors:

| H | H | H | H | H | H | H | H |

Poor Low Contrasting Colors:

| H | H | H | H | H | H | H | H |

Tell us who you are. (required fields in red)

- Company: 
- Salutation: (please select) 
- First name: 
- Last name: 
- Job title: (please select) 
- Phone: e.g., 415-555-1111 
- Web address: 
- E-mail: 
Hard of Hearing or Deaf

Loud or Quiet Environments
Next Steps

More Target Training Workshops in coming weeks…

July – DIY…Web Accessibility Testing Tools (Kristine Neuber)

- Creating Accessible Documents Series, June 30/July 2 (Robert Starr)
  - June 30 – DIY…Making your Word and PPT Documents Accessible
  - July 2 – DIY…Making your PDF Documents Accessible

- Creating Accessible Audio and Video Series, July 7/July 9 (Robert Starr)
  - July 7 – DIY…Adding Captions to YouTube and Vimeo
  - July 9 – DIY…Live Captioning on a Budget

- Assistive Technology Series, July 14/July 16 (Tiffany O’Neal)
  - July 14 – Notetaking Tools for Online Courses (Audio Notetaker, Otter.ai, etc.)
  - July 16 – Text-to-Speech Solutions (Read & Write, Natural Reader, Built-ins, etc.)
Please Visit Our Website

ATI Website,  http://ati.gmu.edu

Request a Web Accessibility Review
https://ati.gmu.edu/requesting-services/

Direct Email
- Please email us at ati@gmu.edu if you would like us to contact you directly.
Contact Information

- ATI Office
  - Aquia Building, Rm. 238
  - Mail Stop: 6A11
  - Phone: 703-993-4329
  - Email: ati@gmu.edu
  - Web: http://ati.gmu.edu