

Designing with Accessibility in Mind: Key Takeaways

Introduction

What is digital accessibility? It is "the process of making digital products (websites, mobile apps, and other digital tools and technologies) accessible to everyone."*

These takeaways are derived from Chax Training & Consulting's workshop, Designing with Accessibility in Mind, which took place online on July 28, 2022, for organizations in ArtsFund's Cultural Partners Network. *Quotes are pulled from Chax Training & Consulting's presentation slide deck.

Accessibility is a journey

With the goal to "provide all users access to the same information, regardless of the disabilities they may have or the method they may use."

Current standards for web accessibility

- <u>WCAG 2.1</u> Web Contents Accessibility Guidelines (Global)
- Section 508 of the Rehabilitation Act and Americans with Disabilities Act (Federal)
- <u>Policy 188</u> Office of Chief Information Officer for the State of Washington (State)
- PDF/UA Universal Accessibility standard
- <u>DDA</u> Development Disabilities Administration

Get to know the P.O.U.R. basic principles

- **Perceivable**: data must be available for access by sight and through assistive technology like screen readers.
- **Operable**: The user must be able to navigate through the data presented with a keyboard or assistive technology.
- **Understandable**: Data presented must be clear and understandable. The use of color only or complex symbols without secondary means of interpretation should be avoided.
- **Robust**: There should be multiple ways for the user to interpret the data and navigate through the document or web page.

Overcoming Common Barriers

Within your design programs:

- Assign styles for structure: the relationship between one item and another. Tag headings, paragraphs, lists, bullet, figures, etc. give equitable solutions to those using screen readers.
- Ensure consistent read order
- Check table formats and structure
- Use PDF tags

Use more than color to convey information and don't forget symbols!

Incorporate accessibility early in your process

The most important piece of designing for accessibility: at the start of a project, ask yourself 'what do I want the user experience to be?'



How the story unfolds

Color palette:

• Change colors in the source document & use style guidelines as a standard.

Walk the "tags tree":

• The tag order is the order assisted technology will use to read, so check the sequence by opening tag to see order in which content is being read.

Print pieces:

• Even if collateral is intended to be printed, if it's put on the web, ask yourself 'how can I present this so audiences using assistance technology will get the same information in the same sequence?

Do not wait till the end!

20/70 rule:

- Accessibility adds 20% to a project when considered from the start.
- Accessibility can add up to 70% of time to a project when addressed only after the project is completed.

Use the tools you have

Using the accessibility features built into programs as they were intended -- with designed lists, styles, and captions -- can get you 80% of the way there.

Establish a workflow with accessibly along the way

Accessible Design Cycle:

- Overall style & color
- Content development
- Source changes & revisions
- Test your Accessible PDF draft (after this step is the point of no return) export a draft with tags & alt-text
- PDF modifications
- Final accessible PDF

Consider the user experience

Font:

- While there is no standard for minimum font size, everyone's experience is going to be different.
- Turn off ligatures and stay away from light/thin fonts.

Links:

- Add descriptive text to your links: no more "Click here".
- Give meaning to a hyperlink by adding alt text.

Alt text:

- "Alternative text used to give meaningful description of a figure."
- Be concise as possible while still accurately describing the image.



- Consider 'artifacting' graphics if the image is nonessential (hides decorative items from screen readers).
- Add alt text into the image's metadata, which will show up in WordPress!
- For charts & graphs: "describe format, describe range, describe trend/key data points/comparative data."

Resources

Chax Training & Consulting:

- Email Dax Castro: training@accessibilityunraveled.com
- <u>Accessible deliverables: What will it cost and how long will it take?</u> YouTube webinar video
- Podcast: Chaxchat.com
- Facebook Group: PDF Accessibility

Color:

- <u>Color Contrast Analyzer</u>
- Adobe Contrast Checker
- <u>Sim Daltonism</u> Mac browser extension for color blindness simulator
- <u>Color Oracle</u> browser extension for color blindness simulator
- <u>Funkify Disability Simulator</u> browser extension
- <u>Doug Schepers</u> technologist and accessibility advocate
- Adobe Illustrator Colorblind Evaluation View > Proof Setup > Colordblindness > Deuteranopiatype

Font:

- <u>Understanding Point Sizing and Font Characteristics</u> article
- "<u>Accessible Font Sizing, Explained</u>" article on font sizes and how they relate to pixels

Alt text:

- "<u>Alt text helps he visually impaired experience for the James Webb Telescope images</u>" NPR article
- Adobe InDesign scripts for accessibility remediation extension for InDesign
- <u>Social visual alt text</u> browser extension
- Alt text in InDesign: Select object > Object (top menu) > Object export options > Alt text > Custom > Enter text

Additional recommendations:

- <u>Emojipedia</u> notes how emojis are described with a screen reader
- "<u>Demystifying Disability: What to Know, What to Say, and How to be an Ally</u>" by Emily Ladau book recommendation
- <u>Callas pdfGoHTML</u> software for tagged PDFs
- <u>NonVisual Desktop Access (NVDA</u>) open-source portable screen reader