



Ensuring Accessibility In OER

www.amacusg.org

AMAC



AMAC was created in 2005, as an initiative of the Board of Regents University System of Georgia, to help post-secondary disability services offices provide complete, timely, and efficient accommodations to the print-disabled students they serve.



Products and Services



- **Braille Services** produces customized projects from both print materials and electronic text including partial books and chapters or graphics only using cutting-edge technology.
- **Professional E-Text Producers** provide high-quality e-text in many formats such as PDF, DOC, DAISY, and HTML.
- **Captioning Services** makes classrooms, meetings, labs and other audio environments fully accessible for deaf or hard-of-hearing.
- **Certified Assistive Technology team** provides on-site and remote assessments, demonstrations, training and technical assistance for education, work, and daily living environments.
- **Accessibility Compliance** focuses on organizational accessibility needs with evaluation, technical assistance, customer support, and website accessibility.

What is an Accessible Textbook?



- **Text** – selected, reformatted, resized, accessed with Assistive Technology
- **Digital** – not hard copy printed
- Include **Document Structure** and **Navigation – Headings** and Table of Contents
- **Alternative Text Descriptions**
- **Labels** for tables and forms
- Multimedia includes **captions**
- Works for most users
- Improved **Accessibility** leads to improved **Usability**

Who Are the Users?



Print-related disabilities:

- Blind or visually impaired
- Motor disabilities
- *Learning disabilities – largest group of students served in GA
- Deaf or hard of hearing and require multimedia to be captioned
- Secondary group that can benefit – English language learners

Incorporate Standards



Web Content Accessibility Guidelines WCAG 2.0

Framework

- Content must be **perceivable**.
- Interface components in the content must be **operable**.
- Content and controls must be **understandable**.
- Content should be **robust** enough to work with current and future user agents (including assistive technologies).

Use same standards and general techniques across formats

- MS Word Doc
 - PDF
 - ePub
 - html
 - Xml
-
- Accessible source documents can be exported to other formats.

Use the built in tools of your authoring software – use Styles*

- Microsoft Word – Use Styles to add Headings
- iBooks author - Use Styles to add Headings
- Adobe InDesign - Map styles to PDF tags
- Dreamweaver – Format Headings



PDFs

- Create Accessible PDFs from accessible source files.
- Export tagged PDFs.

File name:

Save as type:

Authors: AMAC Tags: accessibility

Optimize for: Standard (publishing online and printing)
 Minimum size (publishing online)

Open file after publishing

Options

Page range

All
 Current page
 Selection
 Page(s) From: To:

Publish what

Document
 Document showing markup

Include non-printing information

Create bookmarks using:
 Headings
 Word bookmarks

Document properties
 Document structure tags for accessibility

PDF options

ISO 19005-1 compliant (PDF/A)
 Bitmap text when fonts may not be embedded
 Encrypt the document with a password



Accessibility Tools

- Accessibility Checker
- Built-in Structure: Styles and Templates
- Export to Accessible formats



Accessibility Checker

- What is it?
 - A tool available in Microsoft Office 2010 and 2013 for Word, PowerPoint, and Excel that identifies areas within documents that may be problematic for users with disabilities to view or use.



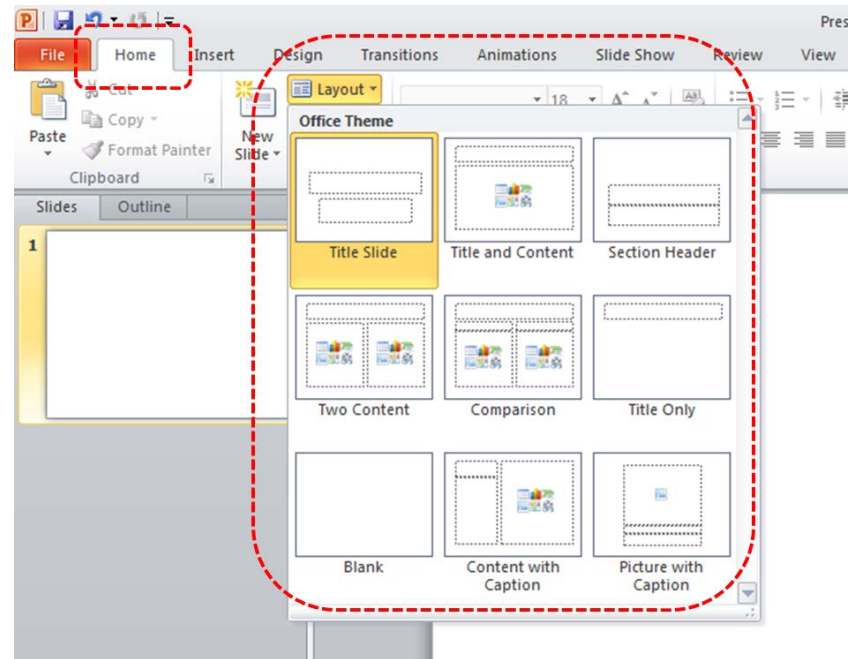
Supplementary Materials

PowerPoint Slides

- Templates
- Layout
- Reading order
- Outline view
- Export to PDF

Multimedia and Video

- Closed Captioned



Distribution and document management

- Method of distribution can take a reasonably accessible document and make it less accessible
 - Scanned documents uploaded to LMS
 - Locked content
 - Remediation is time consuming
 - Alternative format may not be quickly or easily available to the student – student may get behind
 - Alternative format may not be available in the format the student prefers or that works with their preferred AT.

Universal Design



Design for all users / Build it in from the start

- Documents that are designed using accessibility standards and guidelines are beneficial for all users.
- Documents designed using accessibility standards translate to mobile and other platforms more easily.
- Build accessibility into source documents.
- Make accessibility part of your workflow.

AccessGA



Joint Initiative of ADA Coordinator's Office, GTA, and AMAC to support State Org.'s and Institutions of Higher Education with ICT Accessibility

- Assistive Technology (AT)
- Web and Application Evaluations
- Digital Content Remediation
- Resources: Technical Assistance & Training, Wiki Knowledge Base, Webinars, Newsletters, Policy Development Support

Section 508



Section 508, an amendment to the United States Workforce Rehabilitation Act of 1973, is a federal law mandating that all electronic and information technology developed, procured, maintained, or used by the federal government be accessible to people with disabilities.

ADA:

Title II: Applies to government entities

Title III: Applies to for profits

WCAG 2.0 & Section 508 Refresh



WCAG 2.0

Part of a series of web accessibility guidelines published by the Web Accessibility Initiative (WAI) of the World Wide Web Consortium (W3C), the main international standards organization for the Internet.

Section 508 Refresh

Section 508 to harmonize with WCAG 2.0 Level A and Level AA

Legal Definition of Blindness



Central visual acuity of 20/200 or less in the better eye with the best possible correction, and/or a visual field of 20 degrees or less.

Definition of Low Vision



- Condition caused by eye disease, in which visual acuity is 20/70 or poorer in the better-seeing eye and cannot be corrected or improved with regular eyeglasses.

-VisionAware

- Or...

- Severely reduced visual acuity or contrast sensitivity, a significantly obstructed field of vision – or all three.

- Lighthouse International

Vision Loss – The Numbers



United States

- More than 20 Million Americans experience vision loss
- AFB

Worldwide

- 285 Million people are visually impaired worldwide
 - - 39 Million are Blind
 - - 246 Million have Low Vision
- WHO

Screen Reading/Text-to-Speech Solutions



- JAWS, NVDA, Window-Eyes
- Built-in Solutions: Narrator, VoiceOver
- ClaroRead, Kurzweil 3000
- Kindle App and Devices
- VoiceOver, TalkBack
- ClaroSpeak, Voice Dream

AFB's AccessWorld as Resource

Low Vision Solutions



Built-in Solutions:

- Magnifier (Microsoft)
- Zoom (Apple)

- MAGic (Freedom Scientific)
- ZoomText (Ai Squared)

Demonstration of JAWS on the Web



**Demonstration of JAWS by a student who is blind
accessing the Internet**

[Video of JAWS User Accessing the Internet](#)

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AccessGA

[AccessGA: www.accessga.org](http://www.accessga.org)

AMAC Accessibility Solutions and Research Center

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Resources



- [Creating Accessible MS Word Documents](#)
- [Adobe Indesign Character and Paragraph Syles](#)
- [PDF Accessibility Standards](#)
- [NCAM Image Description Resources](#)
- [WCAG 2.0 Guidelines Overview](#)