



Creating Accessible Documents



Hello.
We are
Ablr.

Agenda

8:05 – 8:50: Know Audience to Create Accessible Content

9:00 – 9:50: Source Files and Best Practices (MS Word & PPT)

9:50 – 10:00: Questions

10:10 – 11:00: Generating PDF Files, Tagging, Determining Best Remediation Path

11:10 – 11:50: Checking for and Remediating Issues

11:50 – 12:00: Questions



Understanding your Audience

Tip 1: Think Accessibility

1. **Early – Understand your audience.** Create personas for the people that will be reading your content.
2. **Often – Make accessibility top of mind.** If possible, get feedback from people who use assistive technology. Simply asking “*Is this accessible?*” starts the process.
3. **And again, just to be safe!** Best to create a checklist.



Access by Disability Type

-  **Visual** – screen readers, invert colors, magnification
-  **Auditory** – captions, transcripts, tactile output
-  **Mobility** – alternative keyboard and input devices
-  **Cognitive** – simple, intuitive, text reading software
-  **Other / Hidden** – make accessibility opt out

Keyboard Access

Have you ever had the experience of navigating using a computer without a mouse?

There are various types of keyboards:

- QWERTY
- Dvorak
- Alphabetical Touchscreen Layout
- Mouthstick / Single Finger
- Sip and Puff Device



Magnification – A Different View

User-friendly design

- Provides the same or equivalent experience regardless of the device (computer, mobile, or tablet).
- Allows user to adjust text size
- Check text overlap

SCHEDULE D		SEPARATELY SCHEDULED PROPERTY		
1. Does your business own any artwork, displays, statues, or other personal property that is separately scheduled for insurance purposes? <input type="radio"/> YES <input type="radio"/> NO				
Please describe the items and estimated value of items if applicable.				
SCHEDULE E		FARM EQUIPMENT		
Does your business own any tractors, implements, bulk barns, and/or other farm equipment? <input type="radio"/> YES <input type="radio"/> NO <input type="checkbox"/> COST ON SCHEDULE A				
If so, list and attach separate schedule E-1. If listed by cost on Schedule A, indicate above, but still include information on separate schedule E-1.				
SCHEDULE F		INTANGIBLE PERSONAL PROPERTY		
Session Law 2019-08 repealed the taxation of a leasehold interest in exempt real property, effective July 1, 2019. Schedule F is no longer applicable and will be reserved for future use.				
SCHEDULE G		ACQUISITIONS AND DISPOSALS DETAIL		
Provide acquisition and disposal details on machinery, equipment, furniture and fixtures, computer equipment, and improvements to leased property in the prior year. If there is not enough room below, attach separate Schedule G-1.				
ACQUISITIONS - ITEMIZE IN DETAIL	100% ORIGINAL COST	DISPOSALS - ITEMIZE IN DETAIL	YEAR ACQUIRED	100% ORIGINAL COST
SCHEDULE H		REAL ESTATE IMPROVEMENTS		
During the past calendar year, did your business make improvements and/or other additions to real property owned by your business? If yes, attach separate Schedule H-1 with information on such improvements. <input type="radio"/> YES <input type="radio"/> NO				
SCHEDULE I		BILLBOARDS - OUTDOOR ADVERTISING STRUCTURES		
Does your business own any billboards, or outdoor advertising structures? If yes, attach separate Schedule I-1 with requested information. <input type="radio"/> YES <input type="radio"/> NO				

Introduction to Screen Readers

A screen reader will read EVERYTHING on the page that isn't hidden, which can be both a blessing and a challenge.

Things to keep in mind to make your content more digestible. Screen readers:

- Pause for things like periods, semi-colons, and commas.
- Try to pronounce acronyms but otherwise will spell out the letters.
- Announce the page title when loading a page or email.
- Announce headings and the heading level. e.g. "heading level 2."

Screen Reader Super Powers

Screen readers don't just read what is on the screen, they can focus on different types of content. A screen reader can read by:

- **Headings** – to give a quick snapshot of content outline
- **Links** – to highlight the actionable items on a page
- **Line, word, or character** – to verify the content

They can even read things that are **invisible!**





Accessible Content

First steps to making more accessible content:

Make sure you give yourself enough time.

It starts with your content (source document):

- Be intentional with your message
- Structure your content
- Try to see your content from another perspective
- Ask questions – involve people with disabilities
- Start with the most common accessibility issues



Examples of Most Common Accessibility Issues

1. Images
2. Links
3. Structuring Content
4. Font Choice
5. Using Color
6. Tables



Practice of Sorting Images

Now that you know the different types of images, when you are designing, sort images according to their type. This will help you:

1. Determine the “**Why**” or the purpose of each image
2. Create a process to be followed by all content creators



Sorting Images Examples

Discussion

1. What questions do you ask to determine what kind of image?
2. What if it isn't clear?

Best Practice

1. Develop a pattern so that images are labeled consistently
2. Make sure team all know agreed upon guidelines



Got your REAL ID yet?

Beginning May 7, 2025, a REAL ID, U.S. passport or another federally approved identification will be required to board commercial flights and enter secure federal buildings.

Do not handwrite any information

Do not use commas when entering amounts

Enter Amount U.S. Dollars Only ✗

▶ 1. 99,999.00

Enter Amount U.S. Dollars Only ✔

▶ 1. 99999.00

Use the print icon on the form to ensure you have completed all required fields

Before printing, select "actual size"

Do not mix form types

Do not submit

How to write good alt text

Alt text is the text encountered by a screen reader to describe what an image is trying to convey.

- Short and clear, no more than 15 words. Some screen readers or platforms have limits and will truncate the alt text when the limit is reached.
- Provide quick overview of image's **essential** content
- [Alt Text Decision Tree](#)
- [American Foundation for the Blind's Alt text tips](#)

Informative Links - Example

Practice:

How would you reword this link to make it something that a screen reader would read well?

Discussion:

For print materials, the rule is different. Best practice is to link both.

systems and programs. This data is entered into a Homeless Management Information System (HMIS). In North Carolina, three CoCs use the same system called HMIS@NCCEH that pulls anonymous, de-duplicated reports for [insights into homelessness in our community](#). HMIS@NCCEH is governed by an Advisory Board. [More information can be found here.](#)

If your agency wants to join HMIS for the Durham, NC Balance of State, or Orange CoCs, check out our [Guide for New Agencies](#) and use this [New Agency Form](#)!

Already have access? Login here: hmisncceh.servicept.com/

Links Practice

- 1) More information on [related events](#)
- 2) Applications are due by August 12th. [Apply Now!](#)
- 3) [Visit Artsy's Website](#)
- 4) Learn more about [Sally's work](#)

Structuring Content - Example

PDF Structure

- Tag structure
- Understanding limitations converting from other programs



IRS Disaster Assistance

Federally Declared Disaster Area

If you reside in a state or territory that has been impacted by a disaster, under the Robert T. Stafford Act, the President has declared a federal disaster for your area. The Federal Emergency Management Agency (FEMA) has issued a disaster declaration identifying the areas for relief.

If your IRS address of record is up to date and you are located within the declared disaster area, the IRS has automatically granted you disaster tax relief. Visit www.irs.gov and search **IRS News From Around the Nation** to view the news release detailing the disaster tax relief available in your area. The relief includes the postponement of filing and payment deadlines for eligible taxpayers and is based on damage assessments by FEMA. For current tax relief provisions for taxpayers affected by disasters search **Tax Relief in Disaster Situations**.

If you have additional disaster tax relief questions, taxpayers who reside or have a business located outside the declared disaster area should call the IRS Disaster Hotline at 866-562-5227 to speak with an IRS representative.

Disaster Relief Assistance and Resources

- Search "Disaster" on www.irs.gov
- Call the IRS Disaster Hotline at 1-866-562-5227
- Request IRS tax transcripts online at www.irs.gov/individuals/get-transcript
- Get Free Tax Help using your mobile device with the [IRS2Go mobile phone app](#)
- To view tax products on your tablet or mobile device use the [IRS eBooks app](#)
- For unresolved tax problems, call the Taxpayer Advocate Service (TAS) at 1-877-777-4778
- Visit the Federal Emergency Management Agency website at www.fema.gov
- Visit the Federal Disaster Assistance website at www.disasterassistance.gov
- Visit the Small Business Administration website for information on low interest disaster loans at www.sba.gov

Penalty and Interest Relief

During the postponement period of a federally declared disaster, the IRS waives interest and penalties on taxes owed. This means you have additional time to file a claim for a credit or refund on your amended return and the IRS may reduce the amount of interest you owe on certain taxes. The IRS will issue a news release indicating the affected areas and provide the beginning and ending dates of the relief period. For more information about penalties and interest go to www.irs.gov/Penalties and www.irs.gov/Interest.

Forms and Publications

- [Form 4506 Request for Copy of Tax Return, or Form 4506-T Request for Transcript of Tax Return.](#)
- [Form 1040-X Amended U.S. Individual Income Tax Return and Form 1040-X Instructions.](#)
- [Publication 547](#) explains how to treat casualties, thefts, and losses on deposits and how to figure gain or loss, treat reimbursements and how to report them.
- [Publication 584](#) discusses non-business, disaster, casualty, and theft loss.
- [Publication 584-B](#) is a business casualty, disaster, and theft loss workbook.

Go to www.irs.gov or scan the QR code to get additional disaster information and to download IRS forms and publications.



× Accessibility tags ⓘ ⋮ 

√  Tags

- >  <Figure>
- >  <H1>
- >  <P>
- >  <P>
- >  <P>
- >  <H2>
- >  <L>
- >  <H2>
- >  <P>
- >  <H2>
- >  <L>
- >  <P>
- >  <Figure>
- >  <P>
- >  <Part>

1 2 ^ v ↺ ↻ 📄

Choosing Fonts: Serif vs. Sans Serif

Sample Serif fonts

New Times Roman

Georgia

Garamond

Book Antiqua

Sample Sans Serif fonts

Arial

Century Gothic

Calibri

Futura

Font Styling Considerations

Learn more about this cool event! – Normal text

Learn more about this cool event! – Condensed text

Learn more about this cool event! – Bold text

Learn more about this cool event! – Small text

Learn more about this cool event! – Italicized text

LEARN MORE ABOUT THIS COOL EVENT! – ALL CAPS

Aligning Font

Left Align

Ablr is a full-service disability inclusion organization, and our mission is to remove barriers for all people with disabilities. We do this by eliminating the digital divide, changing the mindsets of people and organizations, and creating pathways to employment.

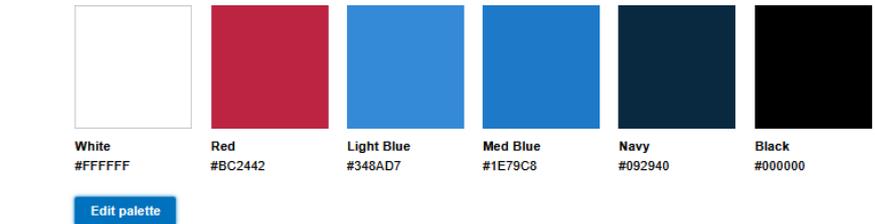
Justified

Ablr is a full-service disability inclusion organization, and our mission is to remove barriers for all people with disabilities. We do this by eliminating the digital divide, changing the mindsets of people and organizations, and creating pathways to employment.

Color Contrast Tools

1. [Create an accessible color palette](#) at the beginning of the project
2. Use [Color Contrast Analyser](#) to spot check
3. Use [Tanaguru contrast finder](#) to adjust colors

Accessible color palette builder



Accessible color combinations

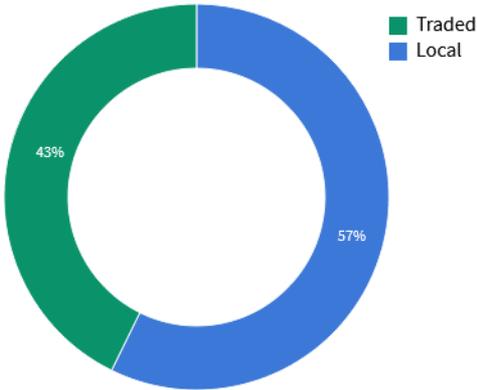
Please don't use these color combinations; they do not meet a color contrast ratio of 4.5:1, so they do not conform with the standards of Section 508 for body text. This means that some people would have difficulty reading the text. Employing accessibility best practices improves the user experience for all users.

	White text #FFFFFF Aa	Red text #BC2442 Aa	Light blue text #348AD7 Aa	Med blue text #1E79C8 Aa	Navy text #092940 Aa	Black text #000000 Aa
Black background #000000	Aa		Aa	Aa		
Navy background #092940	Aa					
Med blue background #1E79C8	Aa					Aa
Light blue background #348AD7						Aa
Red background #BC2442	Aa					
White background #FFFFFF		Aa		Aa	Aa	Aa

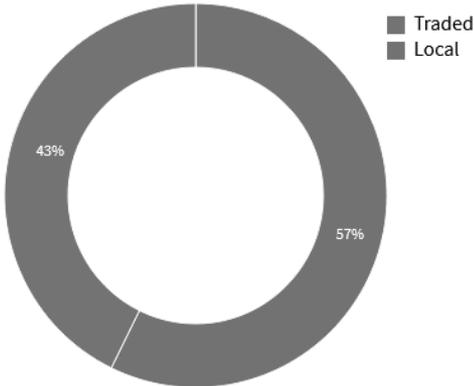
Use of Color

Color cannot be the only source of information.

Traded vs. Local Clusters



Traded vs. Local Clusters



Playing with Color - Continued

Compliance Rules

Regular text = 4.5 to 1



Colour Contrast Analyser (CCA)

Colour Contrast Analyser (CCA) Edit View Development

Foreground colour

HEX

Background colour

HEX

Sample preview

example text showing contrast

WCAG 2.1 results Contrast ratio 1.9:1

- ▶ **1.4.3 Contrast (Minimum) (AA)**
 - ✗ Fail (regular text) ✗ Fail (large text)
- ▶ **1.4.6 Contrast (Enhanced) (AAA)**
 - ✗ Fail (regular text) ✗ Fail (large text)
- ▶ **1.4.11 Non-text Contrast (AA)**
 - ✗ Fail (UI components and graphical objects)

Color as Information?



Quick Break 1

See you back here at 9:10AM.....

Types of Tables

There are three types of tables:

1. **Layout** – used to arrange content and do not have header cells
2. **Simple Data** – communicate relational information and have header cells
3. **Complex Data** – communicate relational information and have merged or more than one header cells.

Individual Discussion Item (Attachment B)

Unit Name	Vote Needed
Pilot Mountain	Yes

UAL Units (Attachment C)

Unit Name	Debt Type	Project Title	Amount	Page #
Norwood	FA	Enterprise Fleet Management Lease-UAL Compliance	\$360,000	
Stanley	IP	Fire Truck	\$637,519	
Wilkesboro	FA	Enterprise Fleet Management Lease	\$594,703	
Wilkesboro	FA	Enterprise Fleet Management Lease 2024 – UAL Compliance	\$578,409	

Weekdays					Weekend	
Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
1	2	3	4	5	6	7
8	9	10	11	12	13	14

Data Tables

Tables can be tricky, but essential to conveying large amounts of data. A couple of tips include:

1. Establish header cells
2. Keep information simple
3. Avoid blank cells
4. Avoid merged cells

Consent Agenda (Attachment D)

Unit Name	Debt Type	Project Title	Amount	Page #
Charlotte	REV	Airport Revenue Bonds, Series 2025	\$330,000,000	D-1
Duke University Health System (NCMMC)	CON REV	NCMCC Series 2025 Bonds	\$540,000,000	D-3
Eden	SRF	Phase 2-North Aeration Basin Replacement	\$9,002,409	D-5
Forsyth County	GO	Two-Thirds Bonds	\$33,635,000	D-7
Greenville Utilities Commission	REV	Revenue Bonds 2025	\$70,000,000	D-9
Hendersonville	SRF	Ashe Street Neighborhood and 4 th Ave Water and Sewer Replacement (2 loans)	\$4,514,929	D-11
Maryfield, Inc. (NCMMC)	CON REV	NCMCC Series 2025 Bonds	\$50,000,000	D-13
Oak Island	REV REFUNDING	2025 Revenue Bond Refinancing	\$29,500,000	D-15
Pasquotank County	FA	Truck Lease	\$1,011,000	D-17
Raleigh Housing Authority	CON REV	Tryon Flats	\$43,000,000	D-19
Miscellaneous Action Items				
Aldersgate United Methodist Retirement Community, Inc	CON REV	Master Trust Indenture Amendment	0	D-21
Camden County	BAN	Private Placement	\$31,000,000	D-22
Lumberton	SRF	Lead Service Line Inventory	\$100,000	D-23
End Consent Agenda				

Determining Tables

1. Understand the main purpose of the information.
2. If you had to summarize what would you include/omit?
3. Consider alternative ways of presenting the same information

Note: tables require a considerable amount of remediation in Adobe Pro

Individual Discussion Item (Attachment B)

Unit Name	Vote Needed
Pilot Mountain	Yes

Consent Agenda (Attachment D)

Unit Name	Debt Type	Project Title	Amount	Page #
Charlotte	REV	Airport Revenue Bonds, Series 2025	\$330,000,000	D-1
Duke University Health System (NCMMC)	CON REV	NCMCC Series 2025 Bonds	\$540,000,000	D-3
Eden	SRF	Phase 2-North Aeration Basin Replacement	\$9,002,409	D-5
Forsyth County	GO	Two-Thirds Bonds	\$33,635,000	D-7
Greenville Utilities Commission	REV	Revenue Bonds 2025	\$70,000,000	D-9
Hendersonville	SRF	Ashe Street Neighborhood and 4 th Ave Water and Sewer Replacement (2 loans)	\$4,514,929	D-11
Maryfield, Inc. (NCMMC)	CON REV	NCMCC Series 2025 Bonds	\$50,000,000	D-13
Oak Island	REV REFUNDING	2025 Revenue Bond Refinancing	\$29,500,000	D-15
Pasquotank County	FA	Truck Lease	\$1,011,000	D-17
Raleigh Housing Authority	CON REV	Tryon Flats	\$43,000,000	D-19
Miscellaneous Action Items				
Aldersgate United Methodist Retirement Community, Inc	CON REV	Master Trust Indenture Amendment	0	D-21
Camden County	BAN	Private Placement	\$31,000,000	D-22
Lumberton	SRF	Lead Service Line Inventory	\$100,000	D-23
End Consent Agenda				



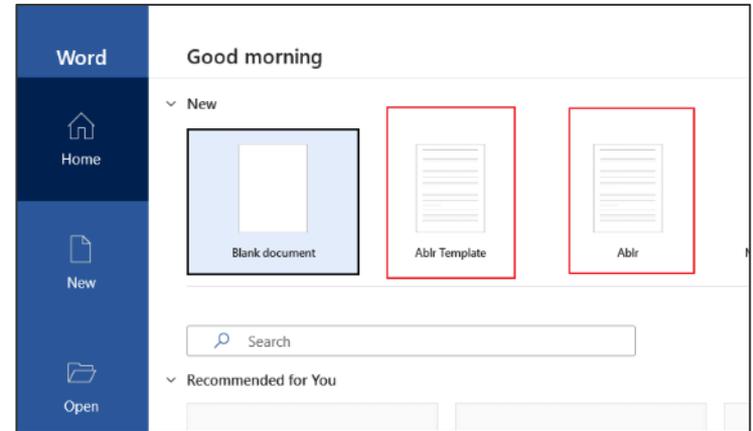
Accessible Source Files

Tip 2: Consider making a Template

Start clean! If accessibility settings are pre-set = less clean up at the end.

Use built in formatting! Styles are applied consistently and formatting means that the properties convert.

Make it repeatable! It is much easier to complete a project efficiently and well when you just need to make small changes.



Source Document is Key

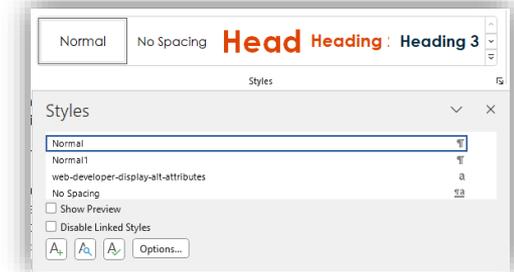
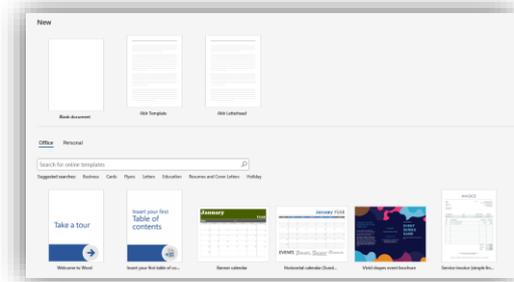
Set up for Success:

1. Font Choice
2. Using Color
3. Structuring Content
4. Images
5. Links



Demo – Set up Documents in Word

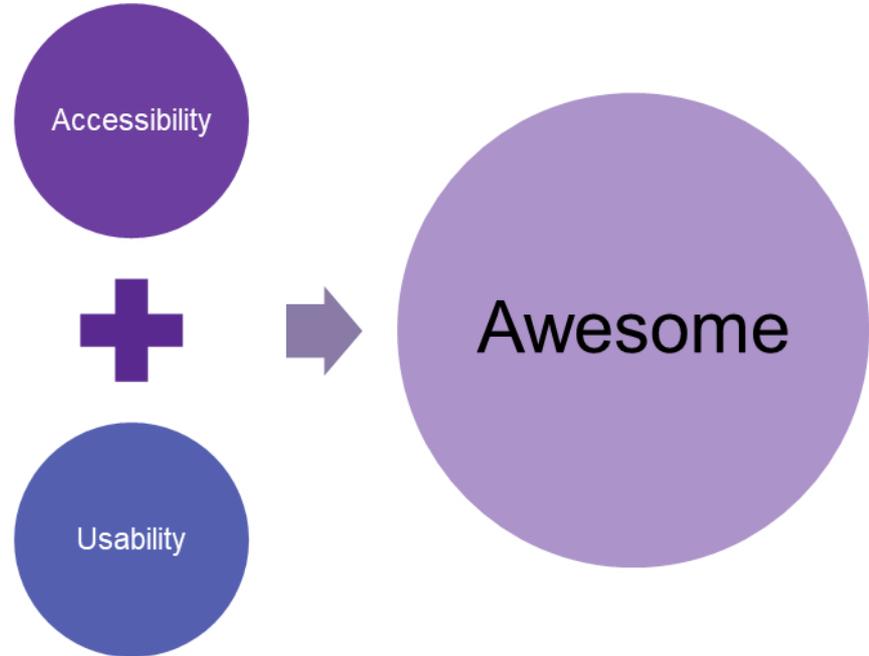
1. **Create a Template** – Make your own or choose a theme
2. **Establish Outline** – logical heading order
3. **Use Styles** – Modify Headings, Normal text and hyperlinks
4. **Avoid Manual Formatting** – for structured items and spacing or page breaks. Screen reader will not announce bold, different color, size, italic, etc.



SmartArt, Charts and Graphs

Does not convert to PDF well (known bug),
workaround:

- Create graphic
- Combine and save – Cut the item, then paste as image
- Create alt text



MS Word Checklist

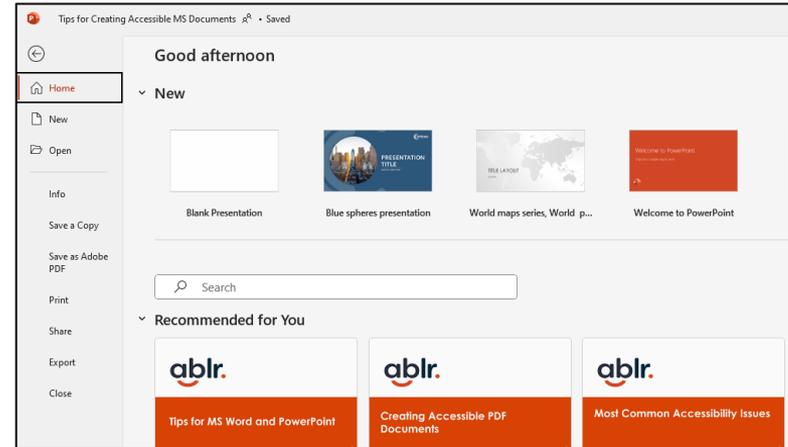
- ✓ Ensure the file name is descriptive and identifies the document or its purpose
- ✓ Headings are formatted with Styles - Navigation pane (Ctrl+F)" and select the "Headings" tab.
- ✓ Lists, Columns, Indenting, Line spacing, and Page Breaks created with the Built-in Paragraph Formatting
- ✓ Check alt text for all images – sort decorative vs needs alt text
- ✓ Check text color for minimum contrast requirement and that color isn't the only source of information

MS Word Checklist (Continued)

- ✓ Links are descriptive and describe the destination, function and purpose of the link.
- ✓ No essential information is contained in the header, footer or watermark
- ✓ No pictures of data tables and tables are in line with text
- ✓ Images, objects, and text boxes are in line with text
- ✓ Support for multimedia files (if applicable)
- ✓ Run Accessibility Checker

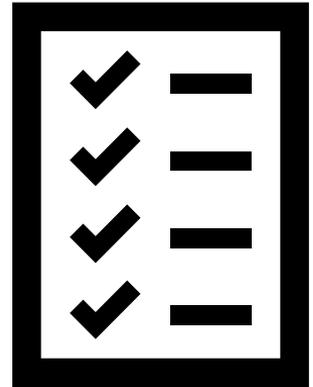
Demo – Set up Presentations in PowerPoint

1. **Create Template** – use Slide Master to edit and mark decorative items
2. **Use Styles** – Slide Title, lists
3. **Alt text** – right click item
4. **Check Order** – go to Home tab, select Arrange drop down, Selection Pane



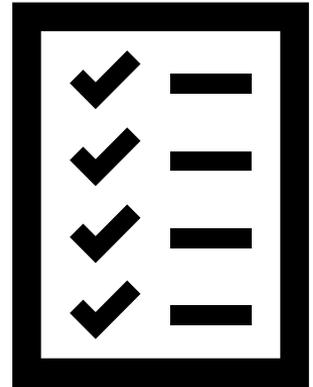
MS PowerPoint Checklist

- ✓ Ensure the file name is descriptive and identifies the document or its purpose
- ✓ Check Reading Order of all slides
- ✓ Check alt text for all images – sort decorative vs needs alt text
- ✓ Check text color for minimum contrast requirement and that color isn't the only source of information



MS PowerPoint Checklist (Continued)

- ✓ Links are descriptive and describe the destination, function and purpose of the link.
- ✓ No pictures of data tables and tables are in line with text
- ✓ Support for multimedia files (if applicable)
- ✓ Run Accessibility Checker



Tip 3: Check Accessibility

1. Use built in Accessibility Checkers
2. Create a checklist for most common issues
3. Check your work with a keyboard
4. Check with a screen reader (Advanced)

Checking Existing Documents

1. Use the [Microsoft Accessibility Checker](#)
2. Create checklist to check for most obvious issues
3. Check with keyboard only
4. Check with a screen reader (advanced)

Resources

Below is a list of websites for guidance on creating accessible documents:

[How to meet WCAG \(Quick Reference\)](#)

[Microsoft Resource: Make Your Word Documents Accessible](#)

[Microsoft Resource: Create Slides with an Accessible reading order](#)

[Section508.gov: Create Accessible Documents](#)

[NV Access screen reader \(for PCs only\)](#)

Questions... then Quick Break

See you back here in 10 minutes.....

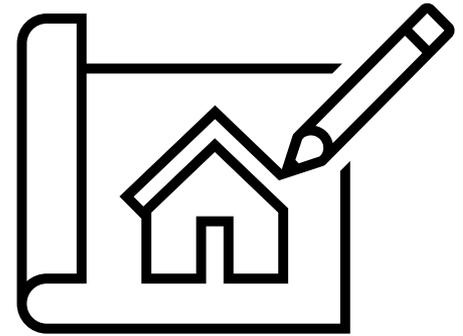


Generating PDF Files

Step 1: Start with an Accessible Source File!

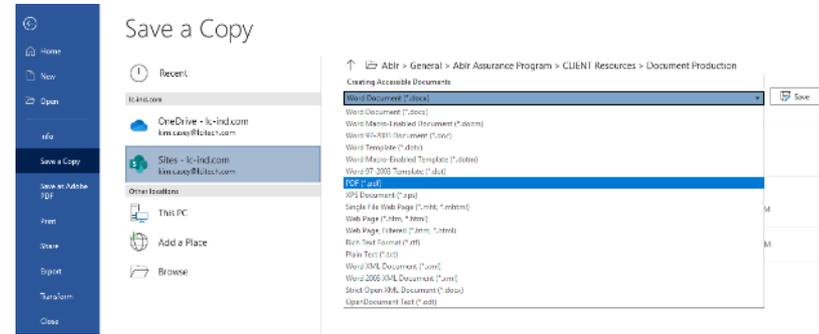
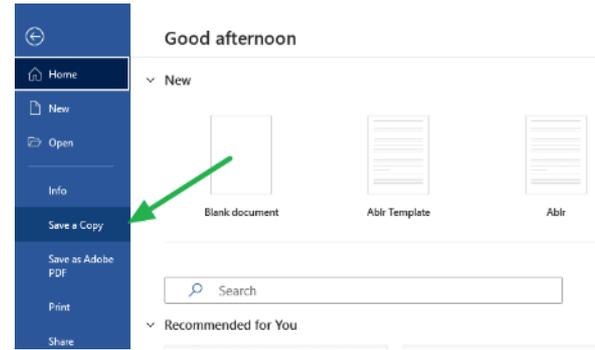
Working on Accessibility from the start will save you a lot of time in this step.

There will always be some work, but try to minimize.



Converting to PDF: Microsoft Suite

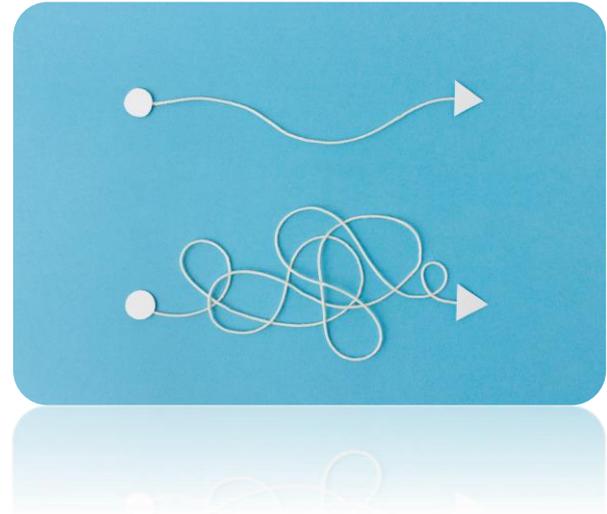
1. Ensure that the original Word or PowerPoint document is accessible.
2. From the File menu, select “Save a Copy” and choose where you want the file to be saved.
3. Select PDF from the Save as type list.



Step 2: Determine the Best Course of Action

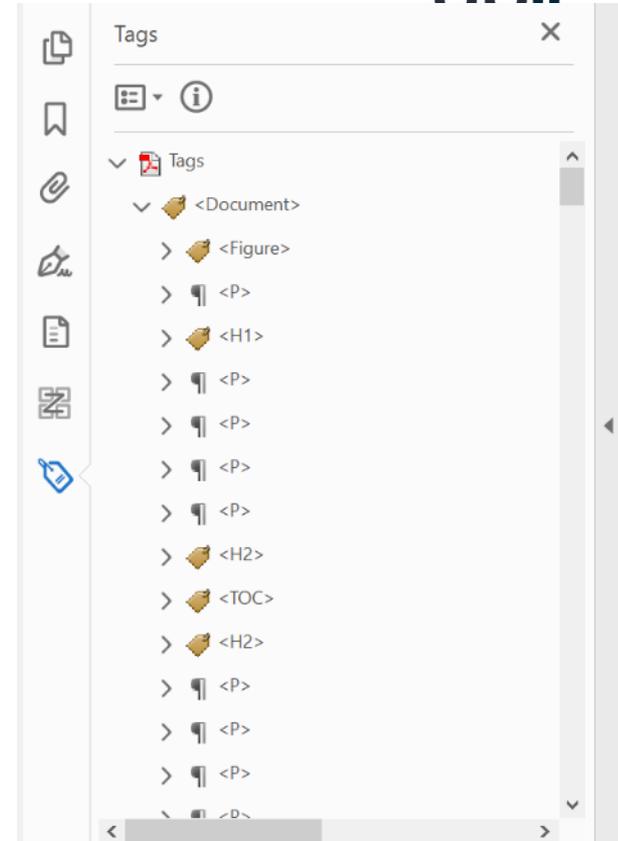
What are your options:

1. Go back to the source file
2. Auto-tag or Manually Tag
3. Use the Make Accessible tool
4. Convert to Webpage



Tagging PDFs

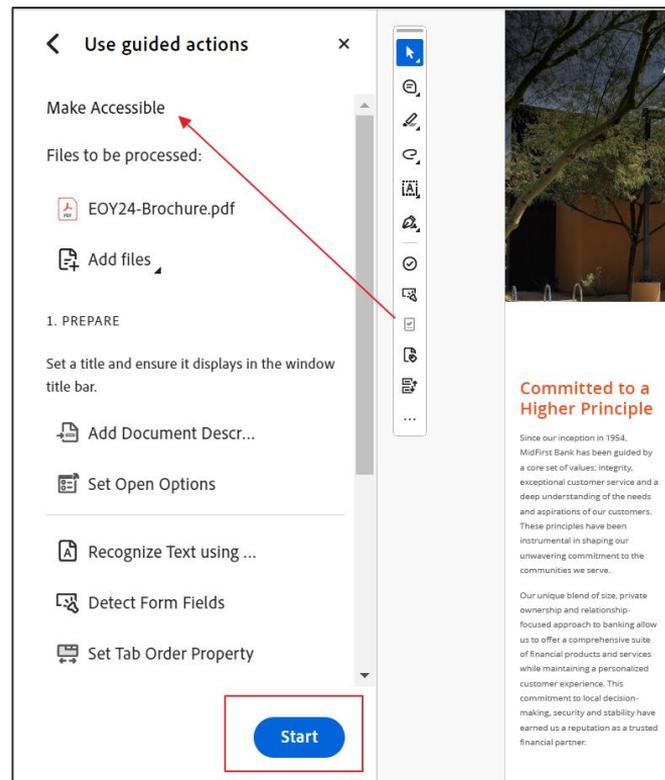
1. PDF tags are essential for assistive technologies – identifies type and structure
2. Tag tree forms the logical structure or the document (reading order)
3. Most common tags are Paragraph, Headings, Lists, Tables, Figures, etc.
4. Does not change the visual appearance, invisible layer for screen readers



Running the Make Accessible Wizard

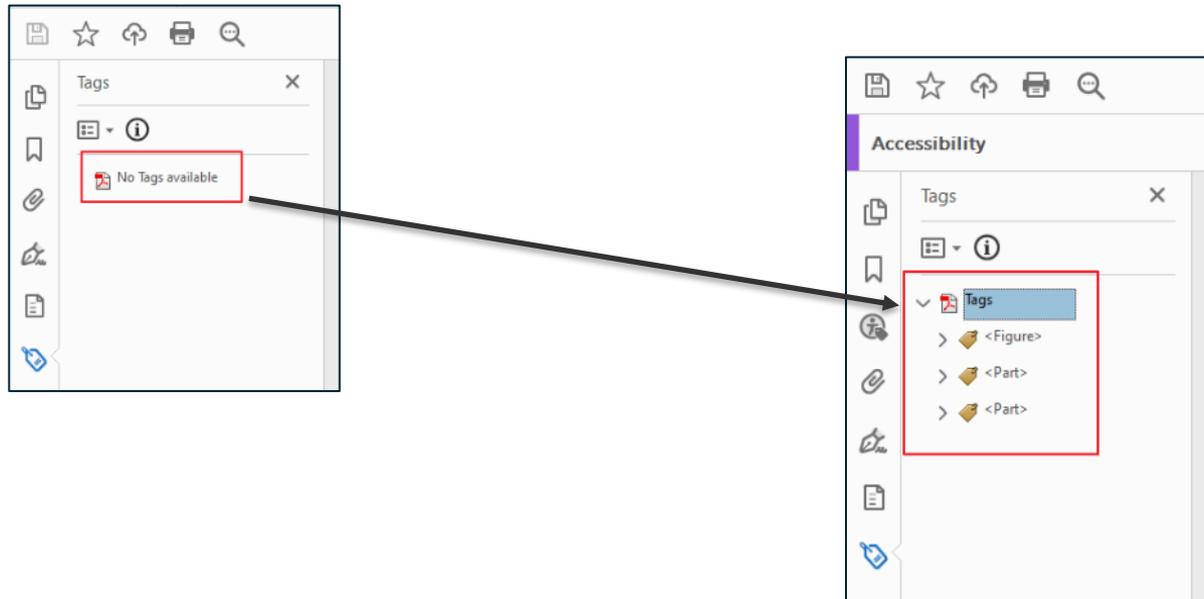
This process will walk through the most common accessibility issues and in the process auto-tag the document. Some tips include:

- The title should reflect the main topic of the document
- As you go through the detect Figures step, only mark as decorative if you are sure.



Auto-tagging only a start

If you have an untagged document, it can give the user some access. Unfortunately, it is likely to result in less-than-ideal page structure.



To PDF or not to PDF

- Is this information meant to be read online?
- Is this an application, survey, or form?
- Will the information be updated frequently?
- Can this information be printed just as easily from a webpage?



If all else fails.... Make it a webpage!

If you anticipate most of your audience will access your content electronically, it makes sense to re-create your document as a web document. The benefits include:

1. HTML has a lot of accessibility features built in.
2. Document behavior with assistive technologies is more predictable.
3. In-page links help people access content efficiently.

Step 3: Review the document, then tags

Inspect the file to make sure nothing is lost or displaying incorrectly.

As you go through the list of tags, check for obvious areas to correct.
Make tags as neat as possible.

Some examples include:

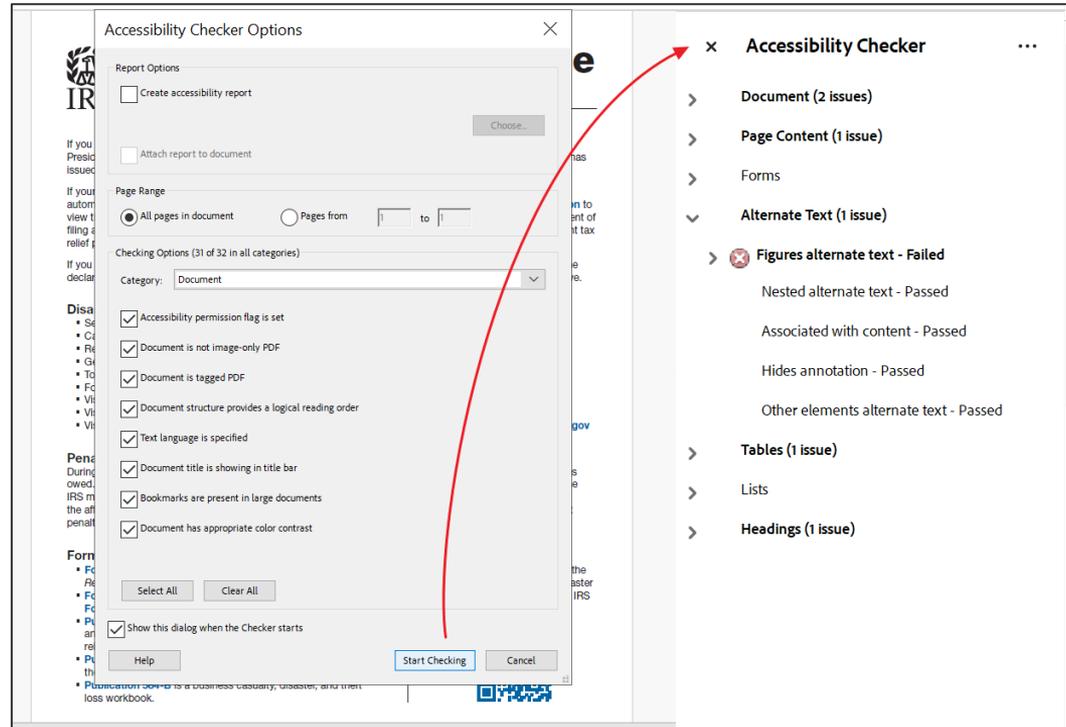
- Empty P tags – you will want to artifact, then delete tag
- Headings tagged as P (Paragraph) tags
- Lists tagged as P tags
- Check Figure tags to ensure they convey the correct alt text
- Pull actual tags out of <Part> and <Sect> tags

Quick Break 3

See you back here in 10 minutes.....

Step 4: Checking PDFs for Accessibility

1. Use the Adobe Accessibility Checker
2. Manually check Reading order
3. Manually check color contrast
4. Check with a screen reader (advanced)



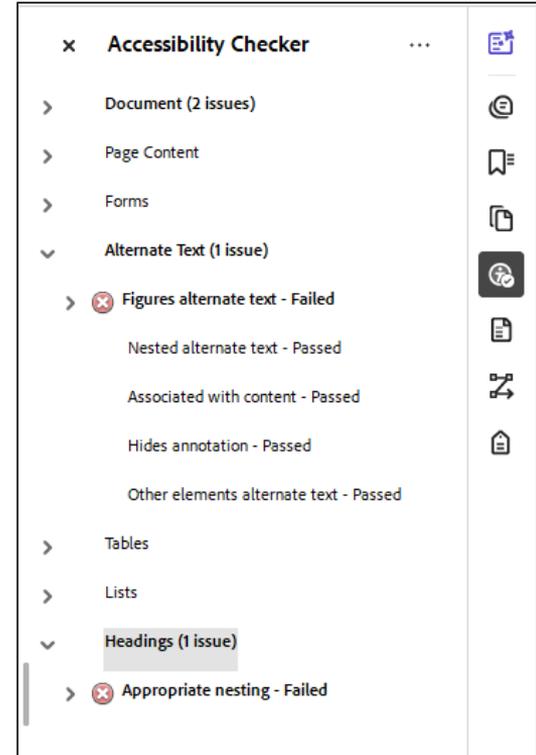
Most Common PDF Accessibility Issues

1. Untagged or Incorrectly Tagged PDFs
2. Incorrect Logical Reading Order
3. Missing or Incorrect Image Tagging
4. Incorrect Heading Structure
5. Incorrect Table Tagging
6. Use of color – contrast and for information

Step 5: Resolve issues and check tags again

Ideally if you have completed the previous steps, these should be minimal. To resolve the issues:

1. Expand the issue listing.
2. Right click and select Fix if available.
3. If not, you can select Explain.
4. To locate the element, select Show in Tags panel (or Show in Content Panel if not in Tags)



Get in touch

Thank You!

Ablr

Web: www.ablr360.com

Call: 833-294-2257

Email: kim.casey@ablr360.com

