

Accessible Documents: Word to PDF



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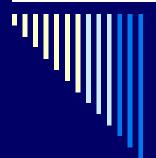


Accessible Instructional Materials

- Build in accessibility before putting the material online!
- All online instructional materials need to be accessible
 - PDFs
 - PowerPoint presentations
 - Podcasts
 - Videos
 - Software

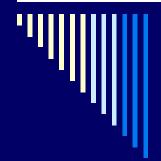
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2

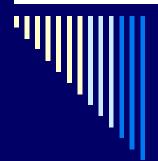


Creating Materials

- Online documents
 - Must be text (not scans) and have structure (headings, etc.)
- Graphics
 - Add "alt text"—brief description
- Videos and multimedia
 - Captioned
 - Back-up plan for audio description

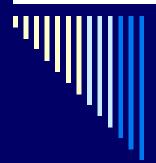


GOOD ALT TEXT



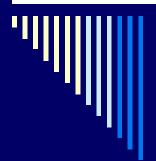
Describing Graphics

- □ First figure out the purpose (intent) of the graphic.
- Does the student need to do something with the graphic (part of an exercise)?
- What does the graphic convey?
 - What specific information does the graphic communicate?
- Who is the intended audience?



Context Is Everything

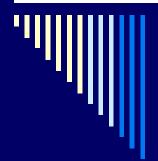
- Context can change the description!
- The same graphic may have a different purpose in a different context.
 - Sometimes decoration
 - Sometimes informational
 - Sometimes an illustrative point



First Question to Ask

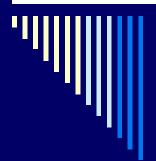
Information or Decoration?

- How much is the purpose of the graphic informational?
- How much decoration?



NCAM on STEM

- Summarize briefly and then provide details
- If color conveys information, include; otherwise, no
- If appropriate include info on shape/size
- Consider the intent of the image, as well as intended audience



No One Right Way

There is no single best way to describe graphics.

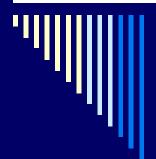
- Just remember...
 - Keep context in mind
 - Ask yourself: Is this something the person really needs to hear?



Exercise 1

■ In a book about health, this fullpage photo appears at the beginning of a chapter on nutrition:

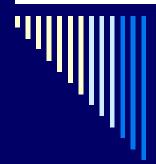




Possible Alt Text

- The photo is decorative.
 - It is simply illustrating the theme of the book.

- Keep the description simple:
 - People biking



Exercise Photo 2

In the same textbook, the graphic below is included next to boxed text about the benefits of strength training.





Possible Alt Text

- This graphic is purely decorative.
- Since this graphic is essentially "eye candy," it is a good example of when a null tag (HTML) or decorative text (PDF) might be useful.
- If you do want to describe, keep it very short: "Smiley face lifting weights."



Logo Example 1



the lake. ...

Kansas City Kansas Community College Presents an Evening of Jazz Come join us for two hours of wonderful jazz by



Possible Alt Text

- The logo is decorative.
- Logo is branding for school, but in this context is essentially decorative from the end-user's viewpoint.
- Since the graphic is decorative, keep it simple.
 - College logo
 - KCKCC logo



Logo Example 2

□ In marketing your business, the design of a logo can make a big impression or can be a waste of money. The logo needs to be attractive but not dominate other information presented along with the logo. In the example below, what catches your attention?





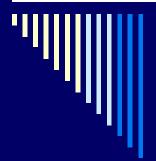
Possible Alt Text

- The logo is informational.
- In this case, the same logo is a specific example and requires a more lengthy description.
- Focus on what the student needs to know:
 - Interlocking blue K and red C on left with the words "Making Life Better" in red above the college name in black blocked and underlined with a blue line.



WAI and WebAIM

ACCESSIBLE DOCUMENTS



The Life and Times of PDFs

- PDFs happen two ways
- Documents are scanned
- Documents are authored in Word or other program and turned into PDF

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Graphical vs. Text-based PDF

- Scanned PDFs are pictures of text
- Computers cannot read a picture
- Documents are not e-text unless the computer can see the letters as text
 - Text can be highlighted with the mouse
 - Text can be selected a letter / word at a time
 - Text can be searched

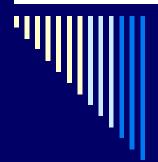
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PDFs Need to be Text-based

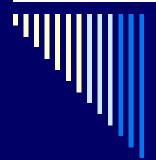
- Searchable PDFs are text-based
 - Not scans or "pictures" of text
- If you scan, you need to run Optical Character Recognition (OCR) to obtain text
- If you start from a Word document, you will have text
 - Now you just need to ensure the PDF will be accessible

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Resources for Faculty

- If faculty are scanning documents, recommend a campus copy of ABBYY FineReader
 - Easy to use optical character recognition (OCR) program
 - Perhaps have copy in teaching & learning center or faculty support center

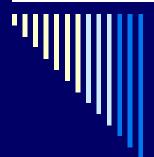


Create Accessible

- To create an accessible PDF, start with a well-structured Word document
 - Open Office works equally as well
 - InDesign requires some additional steps



HANDS-ON WITH MS WORD



Access in Word

- Documents
 - Logical structure
 - Clear components
 - Good color contrast
- Graphics
 - Briefly described



Four Simple Steps in Word

- Links: Name links logically
- Images: Add alt text
 - Picture descriptions
- Styles: Use templates and styles
- Tables: Mark the header row in tables

THEN make it into a PDF

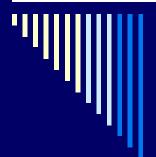


Helpful Acronym

■ Use this "colored" LIST for access!

- Links
- Images
- Structure
- □ Table

□ And watch your color contrast!



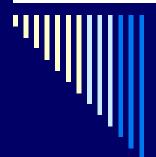
L is for Links

- Instead of ...
 - Click here for document X
- Use the name or description as the hyperlink
 - Document X has the information you need



Benefits

- Benefit for you
 - You don't loose connection with your materials when you make edits
 - Linking to documents and learning objects by their names allows you to keep track of them easily!
- Benefit for others
 - What you get when you click is clear
 - Screen reader users can use a "links list"



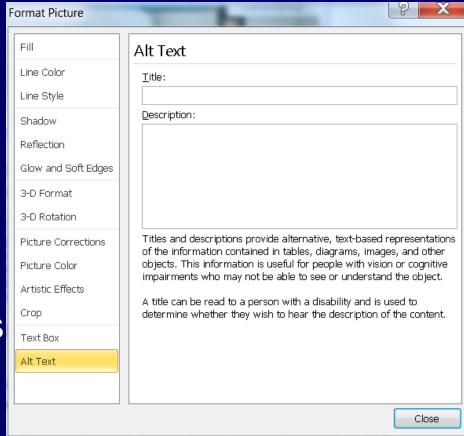
How to Create a Link

- Select the text for the hyperlink's name
- □ Right-click
- Choose "Hyperlink..."
- Browse to the object you want to link



Alt Text

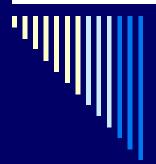
- Right click on picture
- At bottom of window, choose Alt Text
- Note: Put the alt text where it says "Description"





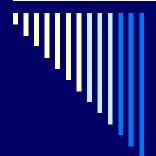
Checklist

√ Links



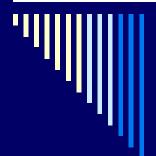
I is for Images

- Add very brief text description
- If graphic is simply decoration, wait and mark it as "decorative" in Adobe Acrobat Pro
- If graphic is informative, describe as succinctly as possible



Benefits

- Benefits for you
 - Requires "out of the box" thinking
 - Text becomes searchable online
- Benefits for others
 - Text appears on mouse-over, clarifying purpose of graphic
 - Provides access for nonvisual users
 - Higher "hit" on Google



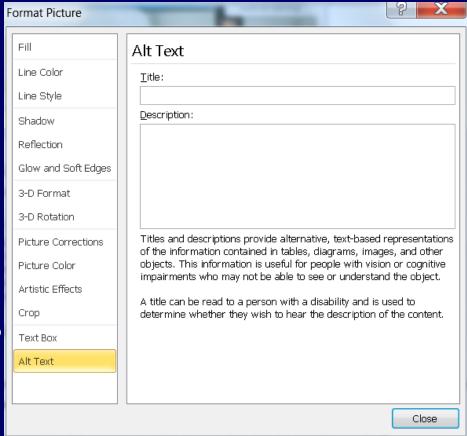
How to Create Alt Text

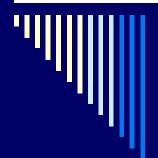
- Right click on graphic
- "Format Picture"
- "Alt Text"
- Enter text in "description"



Alt Text

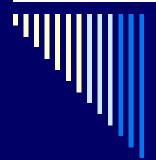
- Right click on picture
- At bottom of window, choose Alt Text
- Note: Put the alt text where it says "Description"





Checklist

- √ Links
- √Images



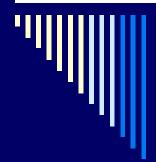
S is for Styles

- Use styles
 - Headings
 - Lists / bulleted lists / numbered lists
- Use columns if needed
- DO NOT use text boxes



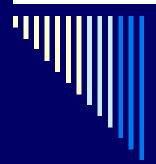
Benefits

- Benefits for you
 - Allows easy changing and editing
 - Improves document navigation
 - Can use "outline" view to rearrange sections
 - Automatic table of contents
- Benefits for others
 - Improves document navigation for all headings useable with screen readers



In General

- Font size and readability
 - 12 point is good
 - Avoid fonts that will be difficult to read online
- Color contrast
 - Be aware of color!
 - Avoid white text on light background; avoid black text on dark background
- Avoid using enter key for spacing



Styles Are So COOL!!

- Quick and easy formatting
- Very simple to change
- Using "Outline" feature allows for rapid editing and rewriting
- Automated table of contents

Oh...and BTW, it's now accessible!



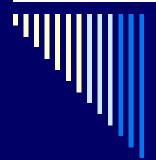
What's a Style?

- Paragraph styles
 - Paragraph attributes
 - Font type & size, line spacing, indent
 - Affects entire paragraph
- Attribute Styles
 - Applies only to selected characters
 - Font type, size, style



Tips

- □ Show hidden: ON (Alt + Shift + *)
- Selecting
- Rulers
- Columns
- Views



Selecting Text

- Double click
- □ Triple click
- □ Shift + arrow keys
- Shift + home/end
- Shift + page up/page down

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"shift-click" technique



Applying Styles

- Paragraph styles
 - Click in text, click on style name
 - Use format painter
 - Use keyboard shortcut
- Attribute styles
 - Select text, click on style name



Handy Style Shortcuts

- Heading One
 - Ctrl + Alt + 1
- Heading Two
 - Ctrl + Alt + 2
- Heading Three
 - Ctrl + Alt + 3

- □ List Bullet
 - Ctrl + Shift + L



More Keyboard Shortcuts

- Remove manual formatting = Ctrl + Spacebar
- Normal style = Ctrl + Shift + N
- □ Change case = Shift + F3

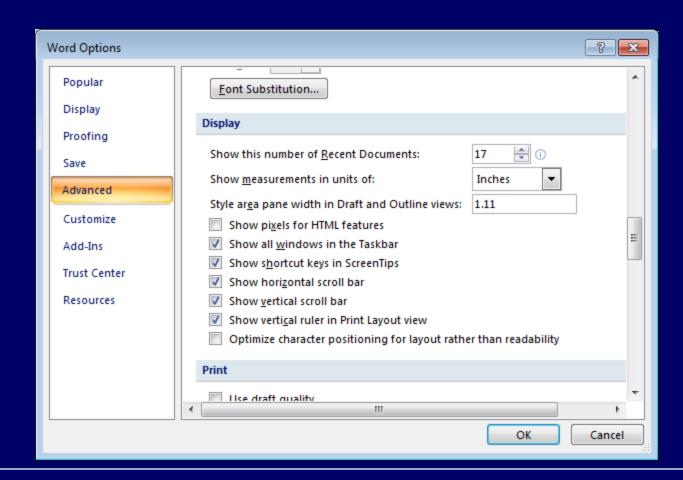


Seeing Styles

- Work in Draft Mode
 - View Draft
- Turn on "Area Pane"
 - Button > Word Options
 - Advanced > Display
 - Set area pane over 1 inch



Area Pane





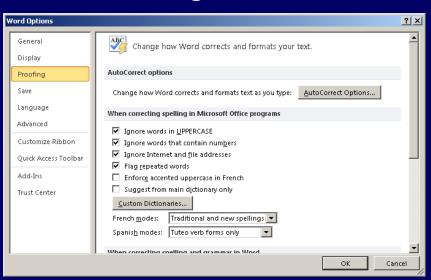
Modifying Styles

- Styles can be modified in MS Word to change spacing, fonts, etc.
- Best NOT to modify Normal Style
 - Use Body Text if you wish to make changes
- Styles pane: Ctrl + Alt + Shift + S



But what if I didn't...

- Word can help by applying "autoformat"
- Must turn on Autoformat under File > options > Proofing > Autocorrect

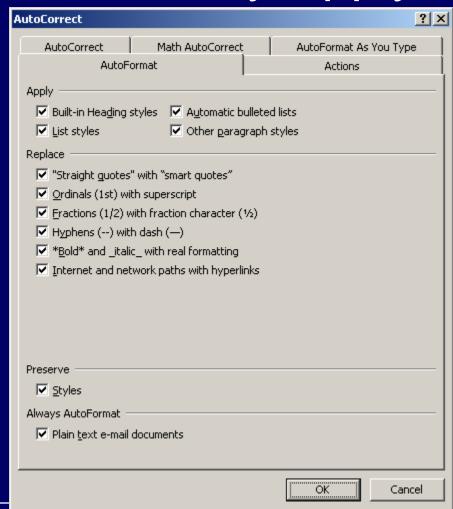




Check the Automatically Apply

Check to apply styles

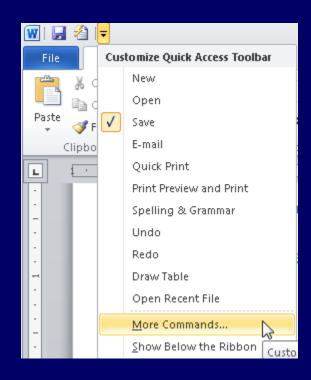
Also preserve those styles you have used





To run autoformat...

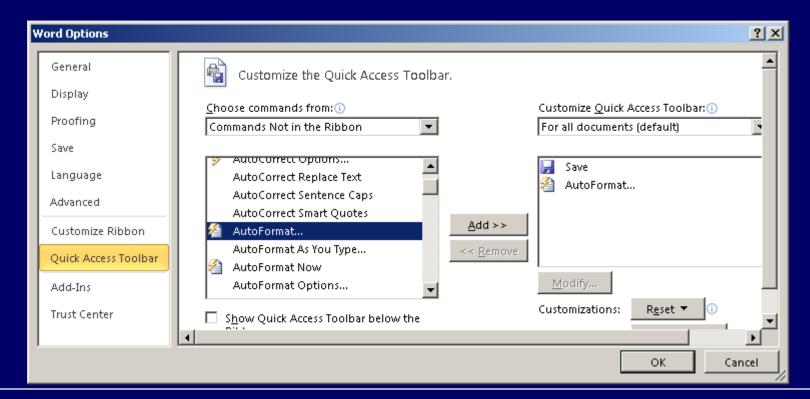
- Must place "autoformat" on Quick Tools
- Choose CustomizeQuick AccessToolbar
- Select MoreCommands





Add Tool

Add the "Autoformat" tool

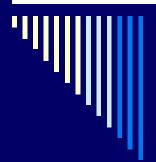




Run Autoformat

Autoformat will automatically apply styles where it can





Once You Have Styles

Reorder sections in "outline view"

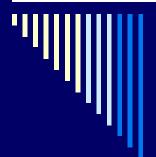
- Click on heading and drag where you want
 - All the subheads and associated material will move along with the heading!



ToC

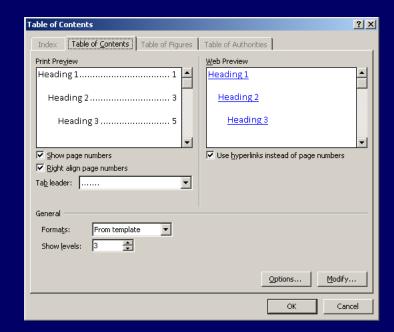
- With styles, you can automate the table of contents generation
- □ Reference > Table of Contents > Insert

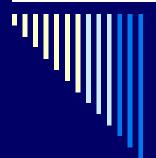




Choose Levels to Include

- Have control over which levels of heading to include
- To update later, just right-click on the ToC





Checklist

- √ Links
- √ Images
- √ Styles



T is for Table

- Mark the header row in your tables
- Word calls this "Repeat as header row at top of every page" or just "Repeat Header Rows"
- Note: If you have column headers (i.e., header in first column), that will need to be marked in Adobe Acrobat Pro



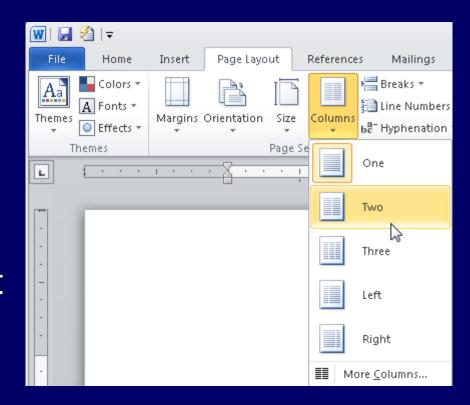
Benefits

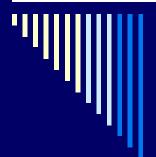
- Benefits for you
 - Always see header row, even across multiple pages
 - Lessens reformatting/editing issues
- Benefits to others
 - Screen reader users will be able to hear the header text repeated as needed
 - Users of large print will still see header row when enlarging text



Avoid

- Avoid using tables just to get columns
- Instead, use the "column tool"
- Select the text and choose "columns"





Checklist

- √ Links
- √ Images
- √ Styles
- √ Tables

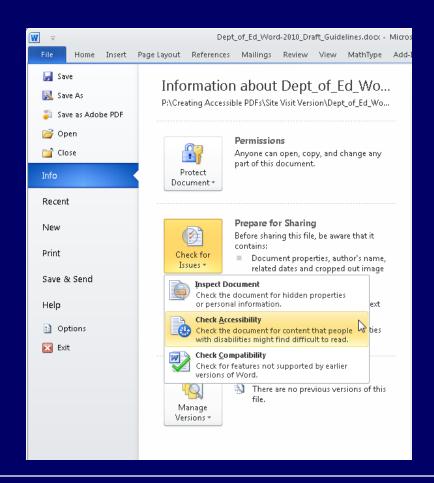
And you're done!

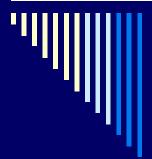


TOOLS TO HELP



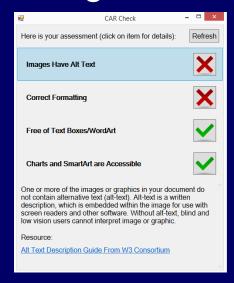
MS Word Built-in Checker



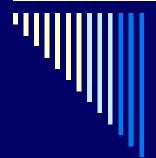


CAR Check

Central Access Reader (CAR) from Central Washington University



http://www.cwu.edu/central-access/carcheck



Central Access Toolbar (CAT)

- CAT Tracks
 - Simplifies document creation
 - https://www.cwu.edu/centralaccess/toolbar



Color Contrast

- Color Contrast Analyzer (CCA)
- http://www.paciellogroup.com/resources/ contrastanalyser/

- Can download checker for free
 - Windows or Mac version



Use Color Carefully!

- Do not represent information ONLY with color
 - Use a combination of color and text/symbols
- Color contrast needs to be clear
 - Black on white—good
 - Yellow on white—not good

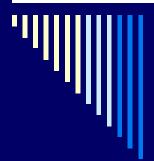


PowerPoint



PPT Accessibility

- Themes
 - Use built-in themes (under design tab)
 - Allows user to adjust contrast as needed
 - Styles are applied automatically
- Describe graphics
- Logical links
- Built-in accessibility checker
 - File > Info > Check for issues



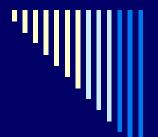
Prezi

Sorry, at this time, Prezi is not fully accessible



Others can help!

RESOURCES



One Site for Free Assistance

@ONE: Course on accessibility for online ed



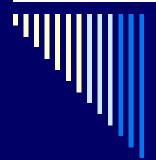
Sidekick

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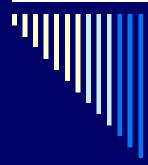
Learning from Others

- W3C Guidelines
 - WCAG (Web Content Accessibility Guidelines) 2.0
 - http://www.w3.org/TR/WCAG20/
- DO-IT (University of Washington)
 - http://www.washington.edu/doit/
- WebAIM
 - http://webaim.org/



Digital Media

- DCMP Captioning Key
 - http://www.dcmp.org/captioningkey/
- NCAM STEM
 - http://ncam.wgbh.org/experience_learn/ed ucational_media/stemdx/guidelines
- WGBH Web Media
 - http://ncam.wgbh.org/invent_build/web_mu ltimedia/accessible-digital-mediaguide/guideline-h-multimedia



Thank you!

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 - 408-996-6047