

ADA Compliant Word Docs

Checklist

Here is a quick checklist for creating ADA compliant Word documents. You can click on each one for a more detailed description.

Headers	2
Example of Heading Levels:	2
Styles Section:	3
Updating to Match Selection Style:	3
Navigation Pane:	4
Alternate Text for Images	5
Assign Alt Text:	5
Alt Text Panel:	
Descriptive Hyperlinks	6
Example Hyperlink	6
Inserting a Descriptive Hyperlink	7
Lists	9
List Styles	9
Tables	9
Header Row	
Row Does Not Break Across Page and Alt Text	
Merged or Blank Cells	
Color Contrast	13
Checking Contrast	13
Emphasized Messages	15
Math Equations	15
Option 1: Using images of math equations	
Option 2: Using the built in Word math equation tools.	
MathML	
Accessibility Checker	17
Document Title and Saving	
 Document Title	
Saving Your File	
Additional Assistance	20

Headers

Headers are the most important part of a document's accessibility. While they are useful to sighted users, they are essential for those who use assistive technology. Assistive technology users will use headers as a table of contents. It will also allow users to jump around the document easily, via the navigation pane. While most users can easily skim a document, headers give that ability to those using assistive technology.

Example of Heading Levels:

To give you a better idea of how headers should be set up, take a look at the image below. What you see is a table of contents taken from a book. I have assigned each listing a heading. Heading 1 will be the title of you document (this should be your only heading 1 in the document). Heading 2 will be the bulk of your primary headings. Heading 3 will be assigned to secondary headings, those that belong under your heading 2s. In more technical documents, you may also have to use headings 4, 5, and 6.

Title of Science Book (Heading 1)

Executive Summary (Heading 2)

Introduction (Heading 2)

Background (Heading 3)

Population A (Heading 4)

Population B (Heading 4)

Health (Heading 3)

Materials (Heading 2)

Methods (Heading 2)

Results (Heading 2)

Experiment 1 (Heading 3)

Experiment 2 (Heading 3)

Discussion (Heading 2)

Conclusions (Heading 2)

References (Heading 2)

Styles Section:

In Word, you can find headers in your Styles section.

 AaBbCc
 AaBbCc

Updating to Match Selection Style:

The first time you use a heading, you will want to update it to match your font selection. For this example, we will be assigning a heading 2. To do this, highlight your heading text and then right click the heading 2 choice in your styles tab. From the menu that appears, select "Update heading 2 to match selection." This will make it so that your heading 2 will keep the exact same font, size, alignment and any other settings that you had attached to the highlighted text. Keep in mind that once you update, this will change ALL heading 2s in your document to match the style of the highlighted selection. If you want some heading 2s centered and some left aligned, you may have to manually change those depending on which heading style you chose to update.

Note: Heading 3, 4, etc... normally do not appear in the styles section until you have assigned a heading 1 and 2.



Once you have updated headings to your style choice, you can now highlight your next heading text and click your heading level of choice in the styles tab.

Navigation Pane:

Once you have all your headers assigned in your document, you can use the Navigation Pane to check if your headers are present and correctly nested. To access the navigation pane, click "View" on the tool bar and then click the box next to "Navigation Pane." The pane will pop up in a window on your left. You can see all of your selected headings and the nesting for each one. You can click on these headings and it will take you to where it is in the document.

***Note:** If you see any blanks in the navigation list, it means that you have a blank line assigned with a heading in your document. Be sure to remove that header by going to the blank line in the document and clicking "normal" in the styles tab.



Alternate Text for Images

When thinking about good design, visual elements are always a huge factor. This can cause issues for those using assistive technology. This is where alternate text, also known as "alt text," comes into play. Alt text is used as a detailed description of an image. You want to describe the image as if you were explaining it to a blind person, pointing out the important and relevant parts of the image. If you are using an image for decoration purpose only and the image has no relevant information, you can use the "Mark as Decorative" option. ***ALL images should have some form of alt text or is marked as decoration**.

Assign Alt Text:

To assign alt text to an image, right click on the image. In the menu that appears, click on "Edit alt text." Another option is to click on the image, then select the format tab in the tool bar and choose "alt text."





Alt Text Panel:

A panel will appear on the right side of your Word document. This is where you will enter your alt text or choose the mark as decorative option. There is also the option "Generate a description for me." I have not had any luck using this feature. If you decide to use this, which I do not recommend, be sure to edit any description to fully and correctly match your image.

Alt Text	-	×
How would you describe thi context to someone who is l	s object a blind?	nd its
(1-2 sentences recommended	1)	
MSU Texas logo		
Generate a descriptio	n for me	
Mark as decorative		

Reminder: Mark as decorative is ***ONLY** for images that convey no information; Images that are only used for a design purpose. If the image has any information that you want the students to have, it ***MUST** have detailed alt text.

Descriptive Hyperlinks

Those that use assistive technology have the option to view a full list of links available in a document. Using descriptive links is important to the user knows where the link is taking them and why. You want to avoid putting in a full URL because a screen reader will read out the "h t t p : / /" and that can be frustrating to the user. Descriptive hyperlinks tell the user what the link is about while also being short and to the point! ***ALL links must be descriptive hyperlinks with the exception of links in the resource section or emails.**

Example Hyperlink

For this example, I want to insert a link to our faculty resource page on the MSUTexas website.

Instead of putting in the URL, which looks like this:

https://msutexas.edu/distance/online-teaching-aids.php

I am going to put it as a descriptive hyperlink, which looks like this:

MSUTexas Faculty Resource Page

This makes it a much shorter link and tells me exactly where I am going.

Note: Do not use general phrases like "Click here" or "Read More" or "Learn More" as your descriptive link. You want the user to know where the link takes them based on the description you give it.

Inserting a Descriptive Hyperlink

To insert a link, you'll want to type out the description that you want the link attached to. Once that is in place, highlight the description and then right click and choose "link."



A new window will appear. Paste your link into the "address" section and then press okay. Your text will now be a link, appear blue, and underlined.



If you already have the hyperlink in the Word document, you can change the text that it displayed. Right click your hyperlink and choose "Edit Hyperlink."

for the use of instructors in teaching learning. Dissemination or sale of ar World Wide Web) will destroy the i ted. The work and materials from students except by instructors u	1 ⊡ ⊕ ●	Convert to S <u>m</u> artArt Edit Link Open Link Copy Link	essing stu including and is no nade avail ng text in
classes. All recipients of this w restrictions and to honor the intended other instructors who rely on these m	% ©	Re <u>m</u> ove Link Smart <u>L</u> ookup S <u>y</u> nonyms	bide by t es and the
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https://msutexas.edu/distance/online-teac	t;⊃ IIIII Aria B	New Co <u>m</u> ment	A [*] €≣ ∋ ≣ * <u>A</u> * ≪*

A new window will appear. In the Text to display box, put in the description for the hyperlink and press okay.



Additional Link Rules

- Website and email links must lead to the correct, active web destination or address. Links need to be corrected if they lead to a dead website, a 404 error, or a return to sender email address.
- All links must be visually distinguishable from the surrounding text. The normal blue font with underline works for this criterion.

Lists

Lists are extremely helpful for those using assistive technology. It gives the user cues about the beginning of the list and the movement when going from one list item to another. Lists are also extremely valuable for visual learners and great for overall design.

List Styles

To create a list, highlight the text of choice and choose one of the two list style options under the Paragraph section on your toolbar. Once the list is created, you can verify that it is a list by clicking anywhere inside of the list and you will see that one of the list styles will be grayed. This means that the list is utilizing that style.



Tables

Tables can be extremely challenging to assistive technology users if they are not set up correctly. ***You want to be as simple as possible when creating a table**. Tables need to include a header row, set up so that the row does not break across pages, have a quick alt text, have no merged cells, and have no blank cells unless the table is being used for a student to fill the information in themselves.

Header Row

To assign a header row, highlight the row that includes your headings. Right click the row and choose "Table Properties."



In the Table Properties window, go to the row tab. Put a checkmark next to "Repeat as header row at the top of each page" then press OK.

Table Pro	perties					?	×
<u>T</u> able	Row	Col <u>u</u> mn	C <u>e</u> ll	<u>A</u> lt Text			
Rows							
Size							
	<u>S</u> pecify hei	ght: 0°	*	Row heig	ht is: At	least	\sim
Opti	ons						
	Allow row	to break acri					
	Allow Tow	to break acti	uss pages				
	Repeat as	header row a	at the top	of each pa	age		
-							
A Prev	ious Row	Mext R	ow				
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					OK	6	ncel
						Ca	licel

Row Does Not Break Across Page and Alt Text

To make sure that rows do not break across pages, highlight your entire table, right click it and select "Table Properties."

•				
Assignments	Points			
Quizzes (10 at 35 pts each)	350	ቆ	Cu <u>t</u>	
Homework	100	Ē	<u>C</u> opy	
Discussions	150	Ġ	Paste Options:	
Midterm Exam	150			
Reflection Papers	50			
Final Exam	200		Insert	×
Total Points	1000	×	Delete <u>T</u> able	
		B₽	Distribute Rows Evenly	
		₩	Distribute Columns Evenly	
			<u>B</u> order Styles	×
			<u>A</u> utoFit	►
		IIA	Text Direction	
			Insert <u>C</u> aption	
			Table Properties	
		\$⊃	New Comment	

Under the row tab, make sure the box next to "Allow row to break across pages" is blank.

Table Propert	ies					?	×
<u>T</u> able <u></u>	Row	Col <u>u</u> mn	C <u>e</u> ll	<u>A</u> lt Text			
Rows							
3120							_
<u>S</u> pe	cify heig	ght: 0"	* *	Row heigh	nt is: At le	east	\sim
Options.							
Allo	w row t	o brea <u>k</u> aci	ross pages				
🔳 Rep	eat as <u>h</u>	eader row	at the top	of each pag	je		
Previous	Row	Mext R	low				
				(OK	(m)	ncel
						Ca	ncei

Before you press OK, we can take this time to enter a quick alt text. Go to the Alt Text tab and under "description" put in a short alt text about what the table is for. For example, if you are using a table for your course schedule, the alt text can just say "Course schedule." This description does not have to be very detailed.

able Pro	perties						?		×
<u>T</u> able	Row	Col <u>u</u> mn	C <u>e</u> ll	<u>A</u> It T	ext				
F <u>i</u> tle —									
Descript	ion								
Assigr	iments and	l points							
Alternati Titles an	ve Text d descripti	ons provide	alternati	ve, text-	base	d repres	entatio	ns of	the
Alternati Fitles an nformat	ve Text d descripti ion contai ion is usef	ons provide ned in table: ul for people	alternati s, diagrar e with vis	ve, text- ns, ima <u>c</u> ion or c	base jes, a ogni	d repres nd othe tive imp	entatio r object airment	ns of ts. Th ts wh	the nis o
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Alternati Titles an informat may not A title ca whether	ve Text d descripti ion contai ion is usef be able to n be read t they wish	ons provide ned in table: ul for people see or unde to a person v to hear the e	alternati s, diagrar e with vis rstand th with a dis descriptio	ve, text- ns, imag ion or c e objec sability a on of th	base jes, a ogni t. and is e con	d repres nd othe tive imp s used to tent.	entatio r object airment o deterr	ns of ts. Tr ts wh	the nis o
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Alternati Titles an informat informat may not A title ca whether	ve Text d descripti ion contai ion is usef be able to n be read t they wish	ons provide ned in table: ul for people see or unde to a person to hear the e	alternati s, diagrar e with vis rstand th with a dis descriptic	ve, text- ns, imag ion or c e objec ability a on of th	based jes, a ogni t. and is e con	d repres nd othe tive imp s used to tent.	entatio r objec airment o deterr	ns of ts. Th ts wh	f the his o

Merged or Blank Cells

Merged cells can cause issues for screen readers when it comes to lining up with the header row. Below is an example of a merged cell. ***Do not use merged cells!**

Week or Module	Activities/Assignments/Exams	Due Date
Week 1	Detailed instructions on the	Clearly posted Due
	Activities and Assignments	Dates
Week 2	Detailed instructions on the	Clearly posted Due
	Activities and Assignments	Dates
	THANKSGIVING	
Week 4	Detailed instructions on the	Clearly posted Due
	Activities and Assignments	Dates

Blank cells also cause issues for screen readers. A blank cell can cause confusion and lead to the user losing their place inside of the table. The user would then have to repeat the table to understand why there was a blank space. Best practice for a blank cell is to put either "N/A" or another type of signifier that tells the screen reader that there is nothing in that cell. You can use blank cells if you are creating a table that the student has to fill in information themselves.

Color Contrast

Color can be important to overall design but can cause issues for those with visual impairments or those who are colorblind. If you are using color, be sure to pick colors with high contrast. The rule to meet WCAG AA standards is a contrast of 4.5:1 for font below 18 points and 3:1 for font 18 points and above. *There are ways to check your contrast, which I will describe below, but if you want to avoid having to check each time then focus on having a light color font on a dark background or a dark color font on a light background. The more contrast, the better!

Checking Contrast

To check the contrast of a color, you will want to use <u>Deque's Color Contrast Analyzer</u>.

This website has three important areas: the foreground color, the background color, and the results.

To change the color of the foreground and background, click on the box below the words "Color."

Foreground Color					
Hex:	RGB:	Color:	Name:		
#FFFFFF	255, 255, 2		white	~	
	Adjust Lightn	ess : 100%	6		
			-		

This will open a small window where you can pick your color. Click on the little dropper. This will allow you to use the dropper to select the color in your Word document. It will give you a magnifying circle that you use to hover over the color in your Word doc. You will want to select the darkest color when using the dropper. Repeat this for the background color.

	context to someone who is blind? (1-2 sentences recommended)	Free online tool for evaluating color contrast according to the Web		
		Color Contrast Analyzer		
		Foreground Color		
Forms of the ement		Hex: RGB: Color: Name:		
Emotional Bonds	Mark as decorative	#FFFFFF 255, 255, 2 white 🗸		
 Personal commitment and attachment 				
 Social media attempts to get consumers to engage emotionally with products and brands 		Adjust Lightne:		
Transactional Bonds				
 Mechanics and structures that facilitate exchanges between consumers and sellers 		Background		
 Factors like assortment and transaction ease could shape the relationship 		Hex: RGB: 255 255 #0000FF 0, 0, 255 R G B o		

Once you have selected both your foreground and background colors, you will see the results. You goal is to have the ratio be equal to or higher than 4.5:1 if the font is below 18 points and 3:1 if the font is 18 points or above. In the example below, the color we used has a 4.6:1 ratio, which is compliant. Our goal is to meet AA standards. If your color meets AA but does not meet AAA, it is still compliant.

Foreground Color							
Hex:	RGB:	Color:	Name:				
#007FA3	0, 127, 163			~			
	Adjust Lightn	ess : 100%	6				

Background Color						
Hex:	RGB:	Color:	Name:			
#FFFFFF	255, 255, 2		white	~		
	Adjust Lightr	ness : 50%)			

	Result							
Small sample text.								
Large sample text.								
Contrast Ratio =	4.60:1							
WCAG Standard	Small Text	Large Text, UI Components, & Graphical Objects						
AA	Pass	Pass						

Emphasized Messages

If you are trying to portray an important message to your students using **Bold**, *Italic*, <u>Underline</u>, CAPS, <u>Highlight</u>, or Color screen readers will not pick these up. To help the screen reader know that you are giving out important information, put a * in front of the message. So now it will be ***Bold**, **Italic*, <u>*Underline</u>, *CAPS, <u>*Highlight</u>, or *Color. It is up to your discretion if the message is important enough to earn a * or not.

Here are a couple examples of sentences:

- *<u>ALL</u> homework is due by the end of Friday.
 - This sentence seems very important, it should get a * in front of <u>ALL</u> as it is underlined and in caps.
- There will be **SOME** people who do not want to wake up that early.
 - This sentence is not very important and the word **SOME**, even though it is in caps and bold, was used as a minor emphasis so it does not need a *.
- Messages in color should almost always have a * with it unless the color is the main font of the PowerPoint or document. For example, if I put one sentence in red but all my other font is black then it needs a *. If my entire Word font is in a dark blue, there is no emphasis to be had so it does not need a *.

Math Equations

Math can be extremely difficult for screen reader users, especially if the document is not set up with them in mind. There are two options for providing ADA compliant math problems.

Option 1: Using images of math equations.

If you choose this option you have to give the images extremely detailed alt text. This option would work best for simple equations. Often times you will want to convert symbols into words for the alt text.

For example: instead of using 3 x 2 in the alt text, you say 3 multiplied by 2.

*Note: All images of math problems must have *detailed alt text.

Option 2: Using the built in Word math equation tools.

This option is best for complex equations. You can find the equation tool under the Insert tab. They will be on the far right of this tool bar.

•																										
File	**	-	inart.	Design	Layout	Reference	n Mei	lings i	Review 1	Viene	Developer	Help Acrob	et Fa	eit POF	Q Tell	me what yo	ou went to de									
	C	1				33	0	1	il i		Get Add-i	W	-	0		5	1					A	A	Signature Line -	πΩ	
Cover Page -	Blank Page	Page Break	Table	Pictures	Online 1 Pictures	Shapes Icons	3D Models -	SmartArt	Chart Scre	enshot	3 My Add-3	ns , Wikipedia	Online Video	Link	Boolemark	Cress- reference	Comment	Header Foots	e Page Number-	Tect Bios *	Quick Parts -	WordArt	Dep Cap- 1	Object -	Equation Symb	•
	Pages		Tables				ustrations				40	id-ins	Media		Links		Conments	Header &	Footer				Text		Symbols	
										1000	Sec. 1							4.1.1.1.1.1.1	• 6 • • • • •		+++2	years a	CALCULAR OF CALCUL			

You can choose a built-in equation or start a new one via the "Insert New Equation."



Once you choose an equation you can click anywhere inside the equation. Doing this will provide you with a new toolbar that has many more math related options.



The perk of using this option is that Word will have built-in alt text for math equations used via the equation tool.

<u>MathML</u>

You could look into <u>MathML</u>, which is a mathematical markup language for describing notation. The website provided will give you more information and includes tutorials and guides. MathML would be a great tool to learn if you use math a lot in your online courses.

Accessibility Checker

Word does have an accessibility checker but it is not very accurate when it comes to all the compliance requirements. ***While I do recommend using it to see if you missed something, I would not rely solely on it.**

The accessibility checker can be found under the "Review" section on the top tool bar. After selecting "Check Accessibility" your results will show up in a window on the right side. Word will inform you of any mistakes it catches and give you information on how to correct it.





***Note:** It is a good habit to check the accessibility checker at least once before you finish your file.

Document Title and Saving

Document Title

Each file must have a descriptive title set in the properties. Document titles allow the user to know what the file is going to be about before they open it. If it is opened in a browser window, the name of that window will be taken from the document title. This will help the student recognize which browser window belongs to the file they just opened.

To insert a document title, you go to File on the toolbar. Once this opens, it should default to opening the Info tab. If not, click on the Info tab. You will insert a title on the right side of this screen, in the title box. Do not forget, this needs to be a descriptive title that lets the user know what the file is about based on the title you provide.

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$\left(\leftarrow \right)$		
Info	Info	
New	ADA Compliant Word Doc How To	
Open	Desktop » ADA Audits	
Save	Protect Document	Properties *
Save As	Protect	Size 798KB Pages 19
Save as Adobe		Words 2997
PDF	Inspect Document	Total Editing Time 2842 Minutes Title Add a title
History Print	Before publishing this file, be aware that it contains: Check for Issues Document properties, author's name and related dates	Tags Add a tag Comments Add comments
Share	Characters formatted as hidden text Custom XML data	Add a title Related Dates
Share as Adobe PDF link	Manage Document	Last Modified 5/22/2024 3:41 PM Created 5/22/2024 3:40 PM
Export	Manage A/22/2025 11:07 AM (autorecovery)	Last Printed 5/22/2024 3:40 PM
Close		Related People
	∰ 4/22/2025 10:28 AM (autorecovery)	Add an author
Account		Last Modified By SZ Shanks, Zack
Options		Related Documents
options		
		Show All Properties

Here is are some examples of good descriptive document titles for a course syllabus:

- KNES 9876 Syllabus Fall 2023
- Fall 2023 KNES 9876 Syllabus
- Shanks Syllabus Fall 2023 KNES 9876

***Note:** A descriptive file name will work to complete this criterion but the Ally checker in D2L only checks for document title. To avoid seeing that issue in Ally, use document title over descriptive file name, or use both!

Saving Your File

Once you are finished with your Word document, I recommend saving it both as a Word document and as a PDF. Either file type can be posted to D2L but PDF is much more universal. To save, go to File -> Save As. Choose your location. First, I save it as a Word file, as it is easier to come back and make corrections. When you are ready to save it as a PDF, click the drop down next to "Save as type" and choose PDF. After selecting PDF, click into the options menu and verify that "Document properties" and "Document structure tags for accessibility" are checked. Hit save once finished. Saving this way will also save all compliance.

*Do NOT save it through the "Print" option as this does not save compliance.

Creative Cloud Fil	Date mounta			_
JneDrive - Persor	No items ma	Options	? ×	
This PC		Page range		-
3D Objects		O Curr <u>e</u> nt page		
Desktop		Selection		
Documents		O Page(s) From: 1	To: 1	-
Downloads		Publish what		-
Musia		Document		
Music		 Document showing markup 		
Pictures		Include non-printing information		-
Videos		Create bookmarks using:		
Local Dick (C)		Headings		
File name: Practice ADA Syllabus for Training		Word bookmarks		1
Save as type: PDF		Document properties		
		Document structure tags for	accessibility	
Authors: Shanks, Zack	Tags: Add a tag	PDF options		-
Ontimize for Standard (publiching		PDF/A compliant		
online and printing)	Options	Bitmap te <u>x</u> t when fonts may i	not be embedded	d
O Minimum size	Open file after publishing	Encrypt the document with a	password	
(publishing online)		ОК	Cancel	
e Folders		Tools 🔻	Save	

Additional Assistance

If you need additional assistance, have ADA related questions, or would like to verify that you created an accessible Word document, send an email to <u>zack.shanks@msutexas.edu</u>.

Created By: Office of Accessibility and Instructional Design Distance Education Midwestern State University