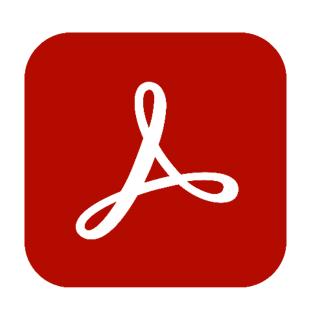
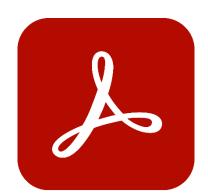
PDF Accessibility Tools





Adobe Creative Cloud for Faculty & Staff





Adobe Acrobat

- Adobe Creative Cloud software is now available for use (at no additional charge) on all faculty and staff university-owned computers, labs and classroom devices, and for all students.
- Please note that this deployment of Adobe software is not available for use on personally-owned faculty and staff devices at this time.
- Learn more about <u>Adobe Creative Cloud for Faculty & Staff</u>
- Adobe Reader is for viewing, printing, signing, sharing, and annotating PDFs. Adobe Reader doesn't have Accessibility checking tool.

What are Screen Readers

Screen readers are a form of assistive technology (AT) software that *enables access* to a computer, and all the things a computer does, by attempting to identify and interpret what is being displayed on the computer screen using *text-to-speech*. Screen readers can only access and process **live text** (fully editable or selectable text).

- Provides access to someone who is visually impaired, mobility or has a learning disability to access text on the screen.
- Offers same level of independence and privacy as anyone else.



Types of screen readers





Screen reader program for Microsoft Windows that allows blind and visually impaired users to read the screen either with a text-to-speech output or by a refreshable Braille display.

NVDA screen reader can be downloaded free of charge by anyone.







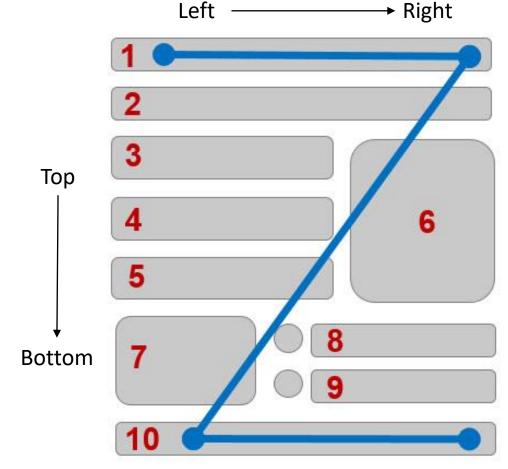
Provides auditory descriptions of each onscreen element using gestures, a keyboard, or a braille display.

Adds spoken, audible, and vibration feedback to your device.

Screen magnifier for Microsoft Windows that allows you to see and hear everything on the computer.

How Do Screen Readers Work?

- Screen readers read line-by-line from left-to-right and top-to-bottom.
- Screen readers start at the top of a document or website and read any text including alternative text for images, graphics or charts.
- Screen readers navigate a document or website using the keyboard without a mouse. Tab key: jump from link to link, **Enter**: select a link, **arrow** keys: navigate a document or website.
- Reading order is important for users with visual challenges. The users can become confused if the document (content, tables, images or charts) is poorly organized or out of order.







Live or Real Text

- To check if the text is "live" or "real," try to select the text with your cursor.
 If you're unable to highlight/select it then it is not real text, and therefore
 not accessible for all users.
- Live text is searchable; this allows users to use search functions like
 CTRL + F to look for specific terms and find what they need quickly or to copy/paste text.

Universal Design Center

Accessibility ensures everyone can perceive, understand, engage, navigate, and interact with technology regardless of device, software, or product without barriers.

Accessibility is not about disability it's actually about ability. It's about making easy for everyone.

- Easy to get
- Easy to understand
- Easy to use

Accessibility is for everyone.

Mysterious Dash or Hyphen

Screen readers do not know what the – symbol represents (minus, hyphen, en dash or em dash) so screen readers **will not** read it. *It is always a good practice to spell the word and any abbreviations or make a reference to your abbreviation when used for the first time.*

For examples:

- May 8th, 2022 from 3:30 5:00pm. The screen reader reads three, thirty five. Recommend May 8th, 2022 from 3:30 to 5:00pm.
- Final exams May 14 20, 2022, screen reader reads May 1420, 2022.
 Recommend May 14 to 20, 2022.
- Homework assignment pages 200 281 for tonight's reading material.
 Recommend pages 200 to 281.
- The fiscal year 2015-2016. Recommend The fiscal year from 2015 to 2016.
- Grading scale 95 100%, screen reader reads 95100%. Recommend 95 to 100%.
 - ❖ A + , screen reader reads A+. Recommend A plus.
 - ❖ A , screen reader reads A. Recommend A minus.
 - * Recommend to spell the word plus or minus for consistency purpose.



It's okay to use dash between compound words, i.e., well-known author, well-being, in-service, in-person, runner-up, part-time job, co-author, re-elect, long-term project, state-of-the-art technology, etc.

What are PDF "Tags"?

TAGS are the HTML code accessibility markup all of the document text, images, etc. Tags are invisible identifiers that will tell screen readers and other assistive technology (AT) an element is...

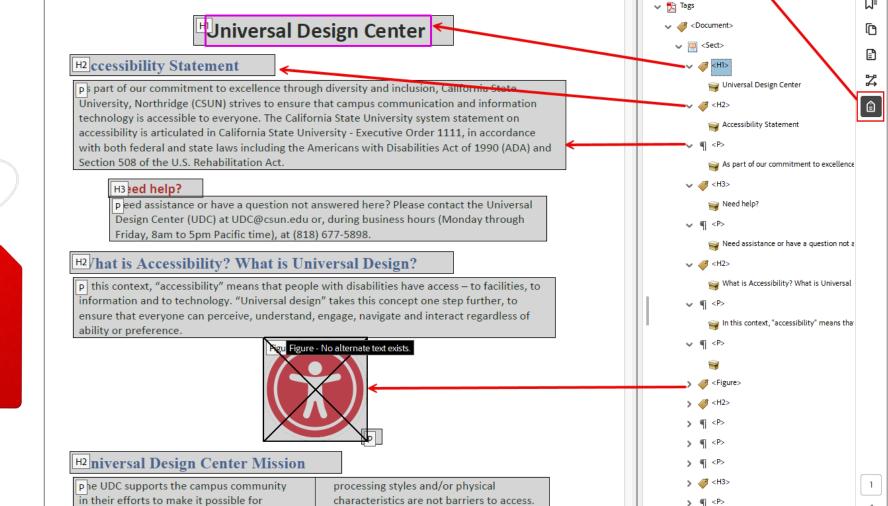
<P>

<Figure>

<Link>

<Table> <Sect> <Artifact>

- header <H1-H6>
- paragraph <P>
- image <Figure>
- list item
- hyperlink <Link>
- table data cell <TD>



Find text or tools Q

x Accessibility tags

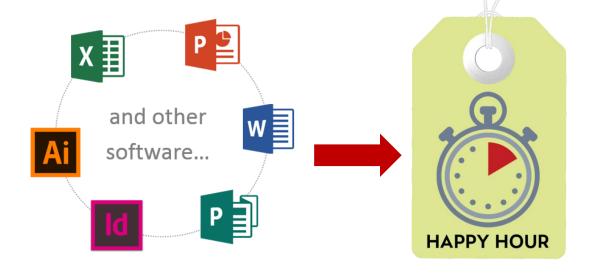
What's the Difference?

Remediate PDF Documents



- No tags, or inaccessible scanned version
- Incorrect reading order
- No descriptive text (alt text) for images and graphics
- Testing accessibility and fixing issues

Remediate Source Documents



- PDF keeps accessibility tags from original document
- Logical reading order
- Descriptive text (alt text) for images and graphics
- Use Built-in Accessibility Checker

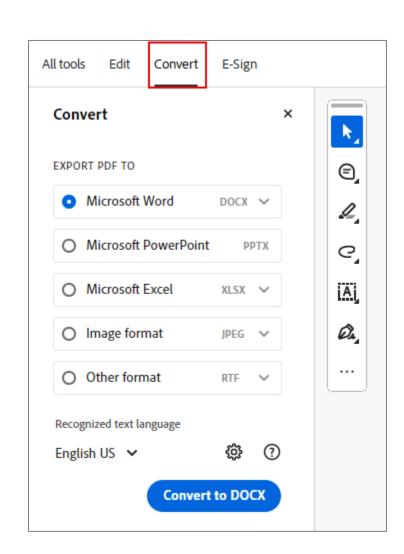
Option 1: No Source Document? Try Export Options

When no source document is available, recommend opening the PDF in Acrobat, and exporting to a Word or PowerPoint file.

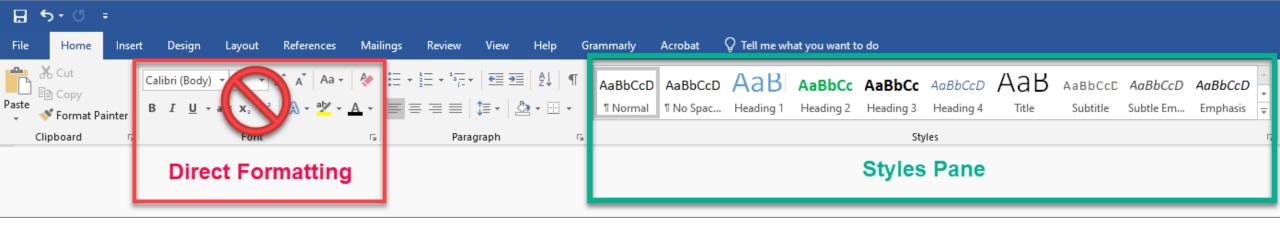
To convert a PDF to a Word document, select **Convert > Export PDF To> Microsoft Word**.

Next step is applying **Styles Formatting**. See the next slide "Direct vs Styles Formatting."

Note: Need to verify format, alignment, unrecognized characters, punctuation, spelling, etc.



Direct vs Styles Formatting



Direct Formatting

- Not accessible to any assistive technology such as screen readers
- Can't create a Table of Contents
- Can't create a navigation to different sections in a document
- Huge barriers!

Styles Pane Formatting

- Provide structure and make document accessible
- Easier to modify existing formatting
- Create and update a Table of Contents
- Quicker navigation to different sections in a document
- Retain document structure when export to PDF
- Accessible to any assistive technology like screen readers
- Save time and save lives!

Headings and Document Structure

Example 1: Reading long, dense text documents can be a daunting task for learners

As part of our commitment to excellence through diversity and inclusion, California State University, Northridge (CSUN) strives to ensure that campus communication and information technology is accessible to everyone. The California State University system statement on accessibility is articulated in California State University - Executive Order 1111, in accordance with both federal and state laws including the Americans with Disabilities Act of 1990 (ADA) and Section 508 of the U.S. Rehabilitation Act.

Need assistance or have a question not answered here? Please contact the Universal Design Center (UDC) at UDC@csun.edu or, during business hours (Monday through Friday, 8am to 5pm Pacific time), at (818) 677-5898.

In this context, "accessibility" means that people with disabilities have access – to facilities, to information and to technology.

"Universal design" takes this concept one step further, to ensure that everyone can perceive, understand, engage, navigate and interact regardless of ability or preference.

The UDC supports the campus community in their efforts to make it possible for individuals to learn, communicate, and share via information and communication technology. One way we do this is by assisting the campus community to ensure their information and communication technology is interoperable, usable and accessible, so that individual learning and processing styles and/or physical characteristics are not barriers to access.

The role of the UDC is to help CSUN implement business practices which enable the campus to meet policy standards under the Accessible Technology Initiative Coded Memoranda. What does this mean to me?

Everyone has a part in creating accessible and usable information. The responsibility of creating and maintaining accessible content falls to the entire campus community.

Example 2: Well-structured documents help readers organize and process texts

Universal Design Center

Heading 1

Accessibility Statement

As part of our commitment to excellence through diversity and inclusion, California State University, Northridge (CSUN) strives to ensure that campus communication and information technology is accessible to everyone. The California State University system statement on accessibility is articulated in California State University - Executive Order 1111, in accordance with both federal and state laws including the Americans with Disabilities Act of 1990 (ADA) and Section 508 of the U.S. Rehabilitation Act.

Normal paragraph

Need help?

Heading 3

Need assistance or have a question not answered here? Please contact the Universal Design Center (UDC) at UDC@csun.edu or, during business hours (Monday through Friday, 8am to 5pm Pacific time), at (818) 677-5898.

Heading 2

What is Accessibility? What is Universal Design?

In this context, "accessibility" means that people with disabilities have access—to facilities, to information and to technology. "Universal design" takes this concept one step further, to ensure that everyone can perceive, understand, engage, navigate and interact regardless of ability or preference.

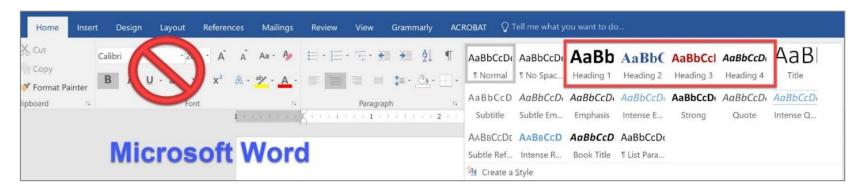


Universal Design Center Mission

The UDC supports the campus community in their efforts to make it possible for individuals to

Heading Styles

- Heading Styles (Heading 1 through Heading 6) in a logical sequence. Do not skip heading levels i.e. Heading 2 to Heading 4, headings should be in order.)
 - Heading 1: Document title or main content heading/title (just one)
 - Heading 2: Major section heading
 - **Heading 3:** Sub-section of the Heading 2
 - **Heading 4:** Sub-section of the Heading 3, and so on, ending with Heading 6
 - Normal: Text or paragraph
 - Title in Word Style won't recognize when converting to a PDF. Start with **Heading 1** for the document title.
- How to create an accessible document using Microsoft Word, visit Word Essentials page www.csun.edu/udc/word



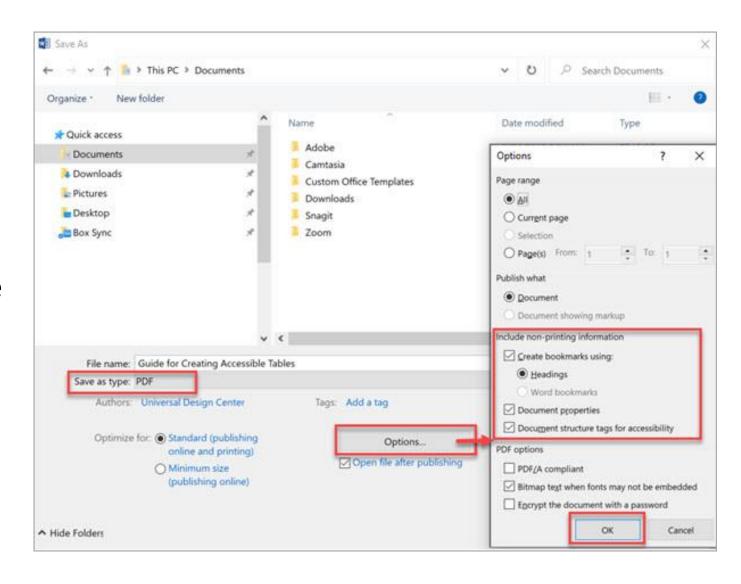
Headings are styles to give a document structure by category or topic.

Without headings, a person using assistive technology like a screen reader cannot navigate by sections, subsections, or scan section titles to understand the document structure.



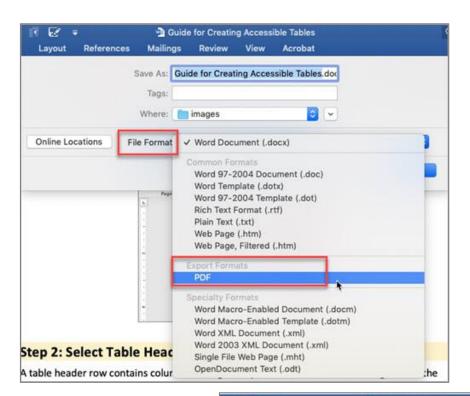
Windows: Converting Word Document to PDF

- 1. Select **File** from the menu and select **Save As.** Choose where you want to save the file.
- 2. In the **Save As** dialog box, choose **PDF** in the Save as type list.
- 3. Select **Options** button in the same dialog box, make sure to select these boxes
 - Document structure tags for accessibility
 - Document Properties
 - Create bookmarks using: Headings
- 4. Select **OK** and **Save** the PDF.



Mac: Converting Word Document to PDF

- 1. Select **File** from the menu and select **Save As.** Choose where you want to save the file.
- 2. In the **Save As** dialog box, choose **PDF** (Export Formats) in the File Format.
- 3. Select 1st radio button "Best for electronic distribution and accessibility (Uses Microsoft online service)"
- 4. Select **Export** button

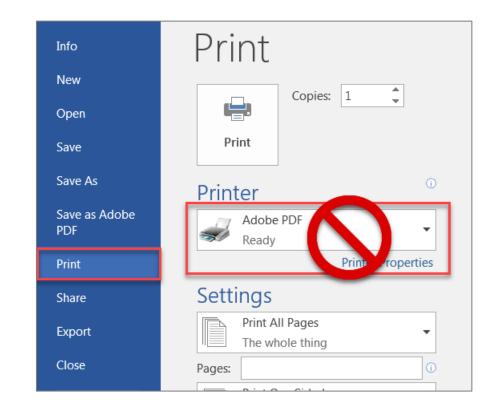




Never Choose Print to PDF Option

Never choose a "Print" to PDF option in Office, or in any other program. A screen reader user may still be able to access the text of a PDF created in this way, but heading structure, alternative text, a logical reading order, and any other tag structure will be lost.

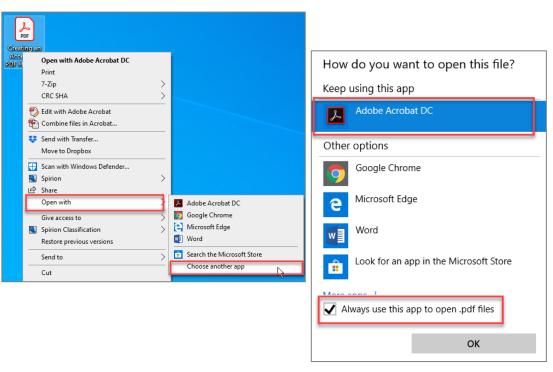
Use **Save As** choose **PDF**.



How to open PDF files from Adobe Acrobat not Web Browser by default?

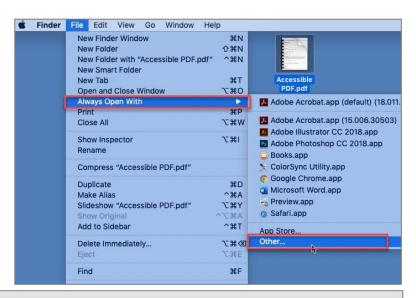
Windows

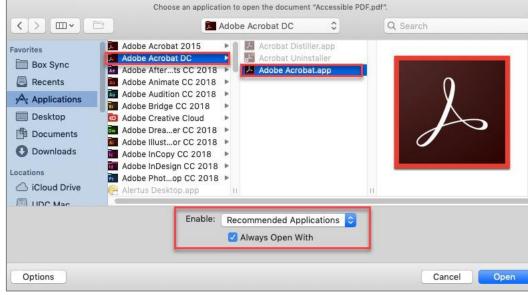
- Save PDF files on desktop
- Right-click on PDF file, select
 Open with, Choose another app



Mac

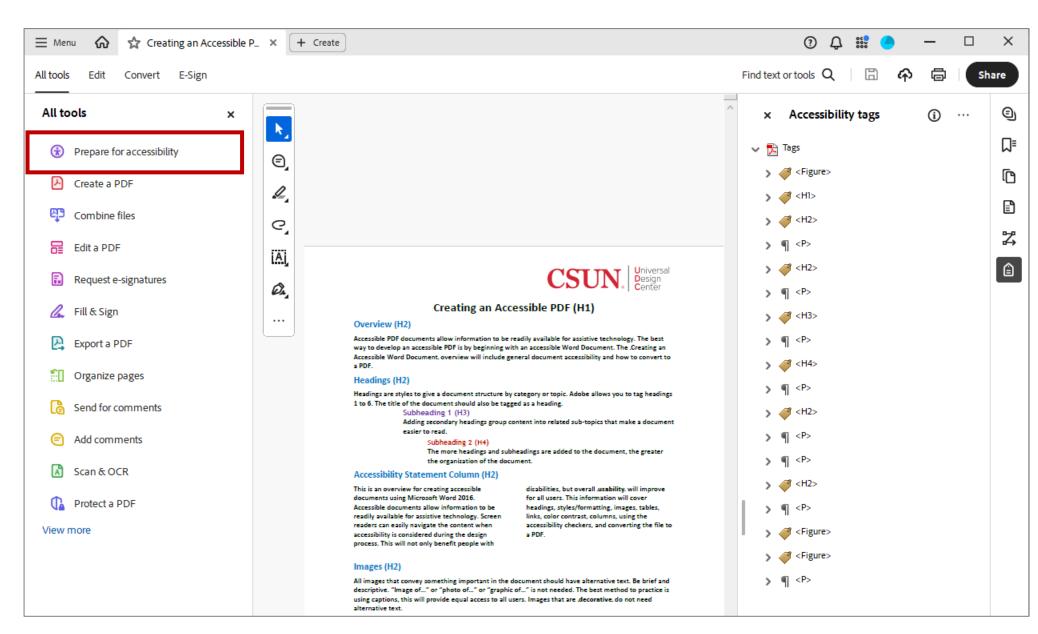
- Save PDF files on Desktop
- Select PDF (not double click)
- File tab, Always Open with, Other





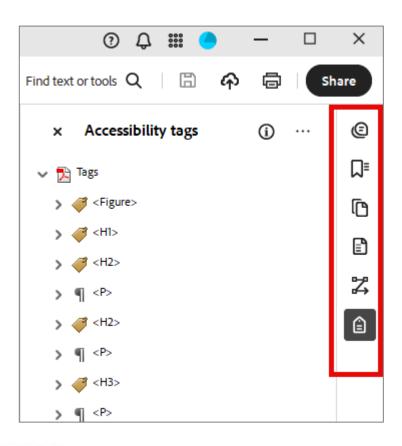
Option 2: Newer Adobe Acrobat 2024

- Prepare for accessibility tool on the left panel
- Accessibility tags on the right panel



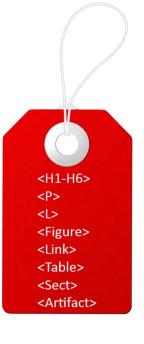
Acrobat Accessibility Tools

These are the primary tools needed to create an accessible PDF:



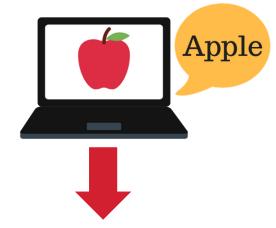
On the right side pane, these icons are set by default:

- Accessibility tags
- Z-Order
- Content



Tags Panel, 1 of 2

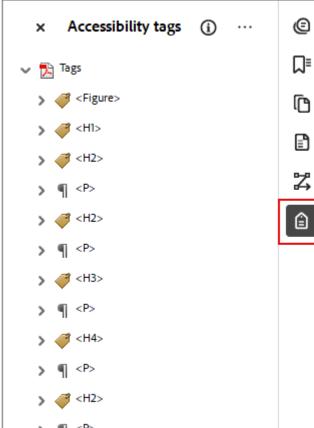
Accessible PDF means **every piece of content** must be tagged with the correct tag.



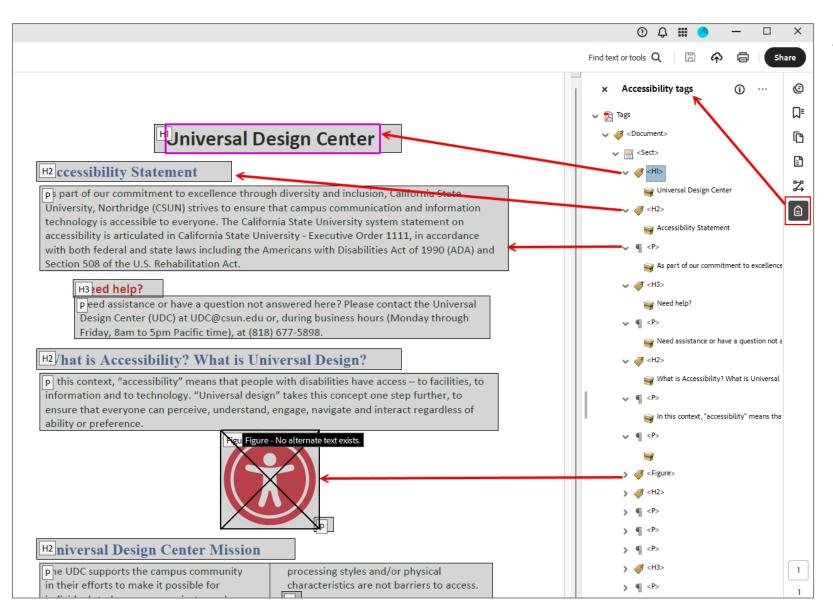
Tags are invisible identifiers that will tell **screen readers and other assistive technology** (AT) an object is...

- Paragraphs of body text: <P>
- Headings and subheads: <H1> <H6>
- Lists: <L>,
- Tables: <Table>, <TR>, <TH>, <TD>
- Graphics have Alt-Text that describe the visual: <Figure>
- Hyperlinks: <Link>
- Captions, and other parts of a document: <Caption>
- Decorative images: <Artifact>

Ensure the tags are in the correct **logical reading order** to match the document pane.

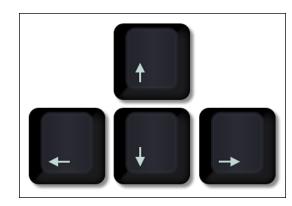


Tags Panel, 2 of 2



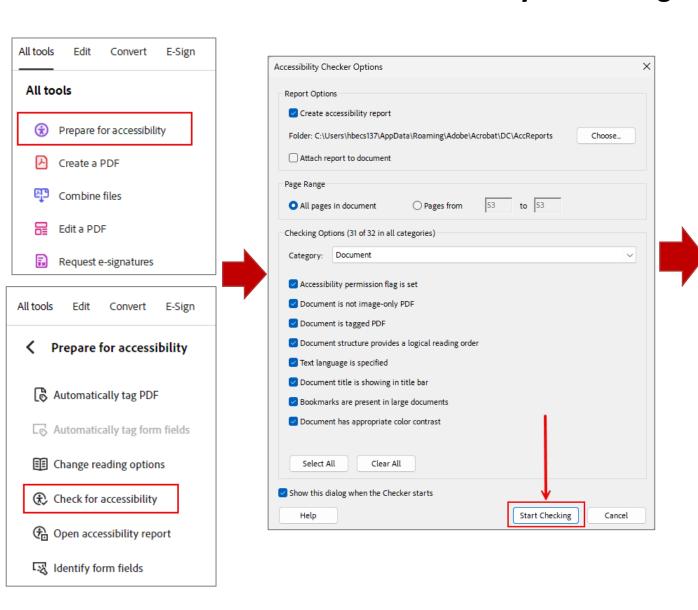
Tags are shown as an expandable "tree"

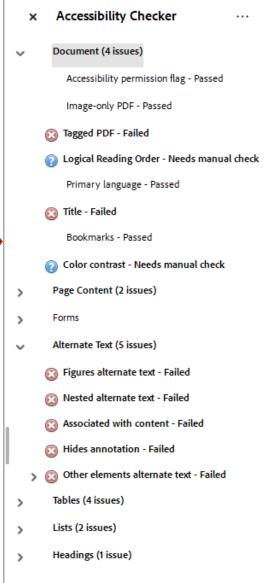
- Up and Down arrow keys to navigate tags tree.
- Right and left arrow keys to expand and collapse the text.



Check for Accessibility

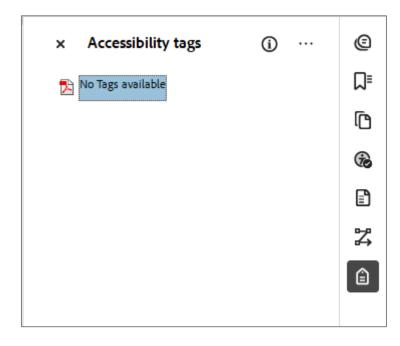
First run the Check for Accessibility at the beginning and at the end of the documents.





- Accessibility checkers results in bold text have one or more issues/failed that need to fix.
- If you have a failure, you can right-click on any item in the report and select "Explain" that will link to Adobe webpage to explain the problem.
- If the results not in bold text, that section has passed.

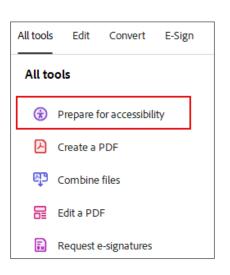
No Tags Available

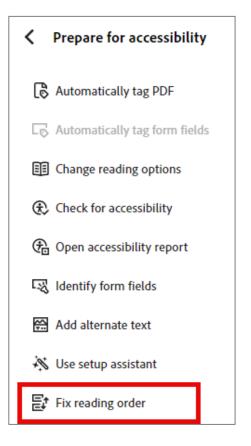


"No Tags available" means missing tags structure that screen readers cannot read the documents. See next slide "How to tag a document?"

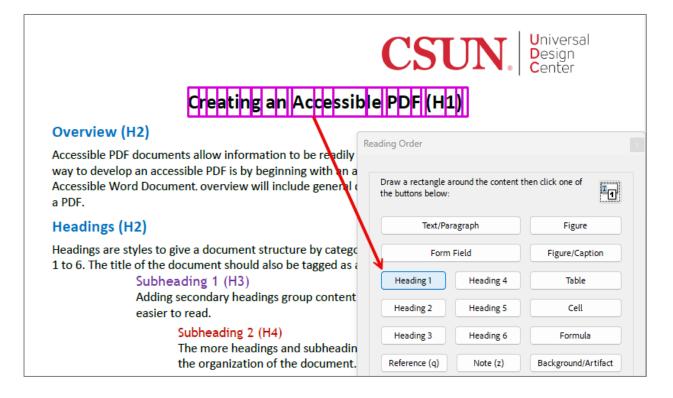
How to Tag a Document?

- 1. Prepare for accessibility, Fix reading order
- 2. Draw a rectangle around the content
- 3. Select one of Reading Order buttons to tag it
- 4. Proceed step #2 above to tag the rest of the content

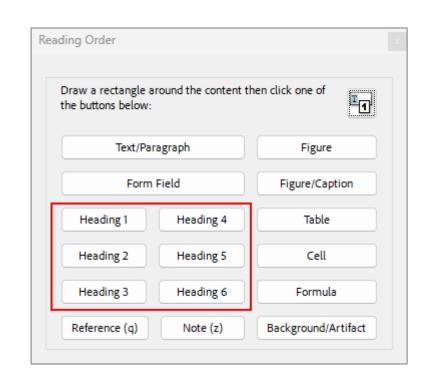


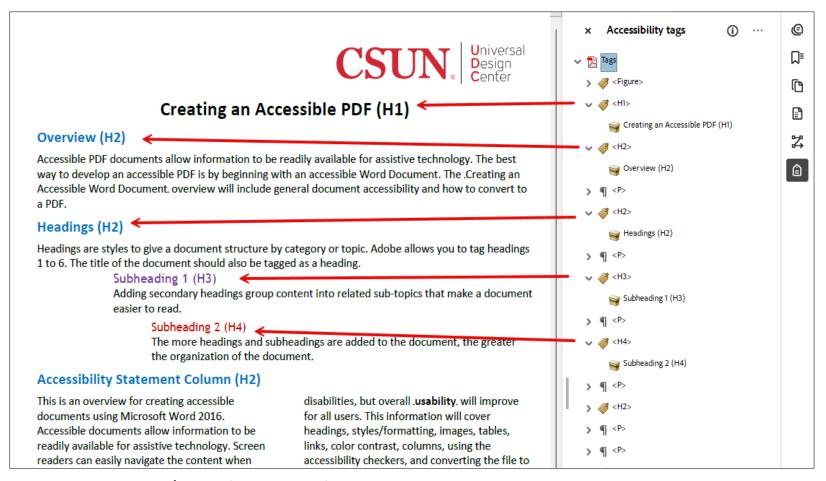






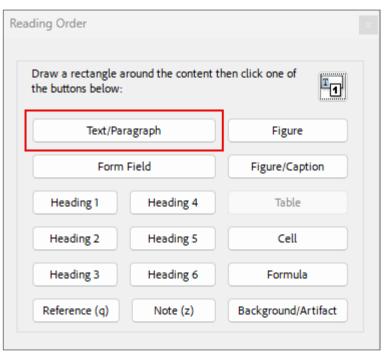
Heading Tags Sample

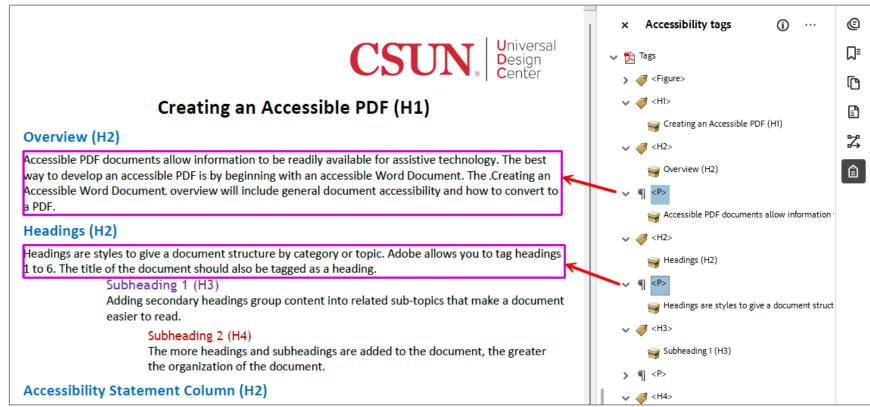




- Heading 1: Document title or main content heading/title (just one)
- Heading 2: Major section heading
- Heading 3: Sub-section of the Heading 2
- Heading 4: Sub-section of the Heading 3, and so on, ending with Heading 6

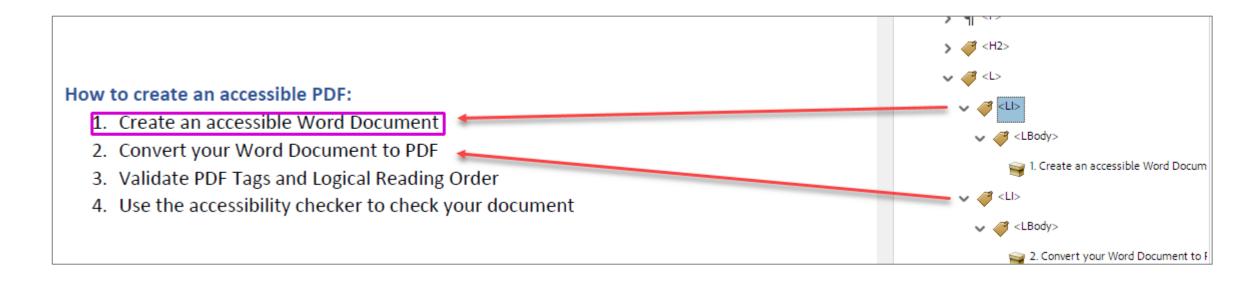
Paragraph Tags Sample





Content highlighted from tags tree

List and Links Tags Sample



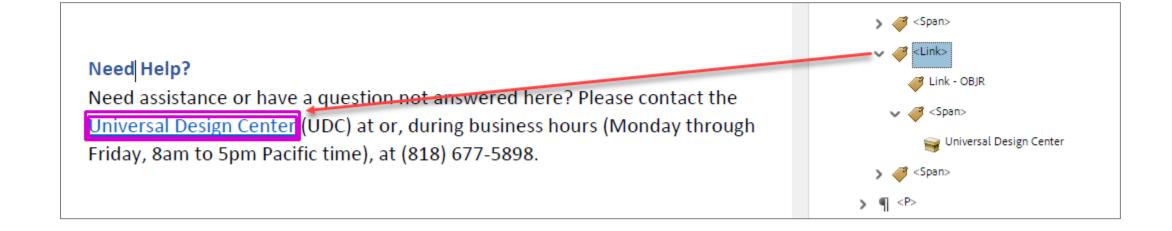


Table Tags Sample

| | | > ¶ <p></p> | |
|------------------|----------------------|-----------------------------------|--|
| Disability | People in U.S. | ∨ | |
| Visual | 1.8 Million | ∨ <i>∅</i> <thead></thead> | |
| Hearing | 1.0 Million | ∨ ⊞ <tr></tr> | |
| | | | |
| Cognitive Mental | 4.3 Million | ▼ == <th></th> | |
| Ambulatory | 11.8 Million | ▽ ¶ <p></p> | |
| | | Path | |
| | | Disability | |
| | | > ≡ <th></th> | |
| | | ✓ ✓ <tbody></tbody> | |
| | | > ≡ <tr></tr> | |
| | | | |
| | | > ≡ <tr></tr> | |
| | | | |
| | > ≡ <tr></tr> | | |
| | | | |
| | | > ≡ <tr></tr> | |
| | | | |

Image Alternative or Alt Text



Screen readers and other AT announce that it's an "image" or "graphic", then read the alt text: "Three plants going through transformation with text quote Accessibility user-friendly document for CSUN student success."

- The purpose of **Alt Text** is to allow low vision or blind users who use text-to-speech assistive technologies (AT), such as screen readers, to understand the purpose of graphic images. Sighted users usually don't see alt text unless they use AT.
- Screen readers and other AT can't convert images into texts. So, when writing alt text, consider the following for images:
 - Describe the content and the purpose of the image clearly and concisely, in a phrase or a sentence or two. Keep alt text short 200 characters or less.
 - Image with text (for example, the CSUN wordmark) should include the words on the image.
 - "Image of...", "Photo of..." is not needed because screen readers and other AT announce that it's an "image" or "graphic".
 - When completing the alt text, use proper punctuation such as periods to indicate the end of the alt text. Without proper punctuation, some screen readers will run the alt text into the body text that follows and cause confusion to the user.
 - Don't insert hyperlinks in alt text because they are not clickable and can't create descriptive link text.

How to Describe Images?



A stair chase leading up to an entryway is painted yellow with bold black text that reads museums are now.



Michelle Obama claps and Barack waves.



A hand reaches out of a computer screen giving the hand gesture for stop. The screen reads 'access denied!'



Student holds a diploma hardcover up in the air during CSUN commencement. Caption text "and together, as Matadors, we will move mountains."



On the left is the book cover for Haben The Deafblind Woman Who Conquered Harvard Law, and on the right is the quote: "In the Tigrinya language of Eritrea and Ethiopia, Haben means 'pride.'"

More examples of How to Describe Images

- Document Learning Tools: Describing images
- How to Describe Images (Art, Chemistry, Diagrams, Flow Charts, Formatting & Layout, Graphs, Maps, Mathematics, Page Layout, Tables, Text-only images)
- Periodic Table of the Elements
- UDC Best Practices for Describing Images

Alt Text for Complex Images using Artificial Intelligence (AI)

Some images are easy to describe but many are not. For charts, graphs, infographics, artwork, and other complex images, artificial intelligence (AI) will generate the first draft of the alt text, making it easier and faster for you to create the final image description.

- Image Accessibility Creator
- ChatGPT Alt-Text Generator Assistant

Figure and Caption Tags Sample

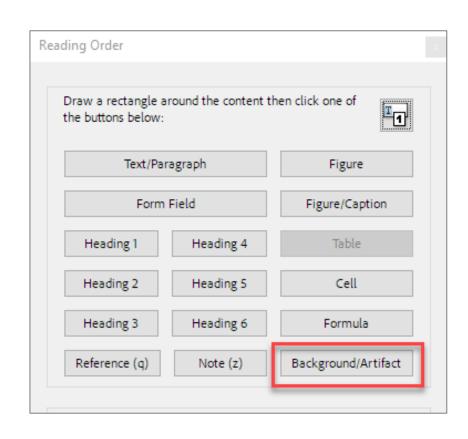


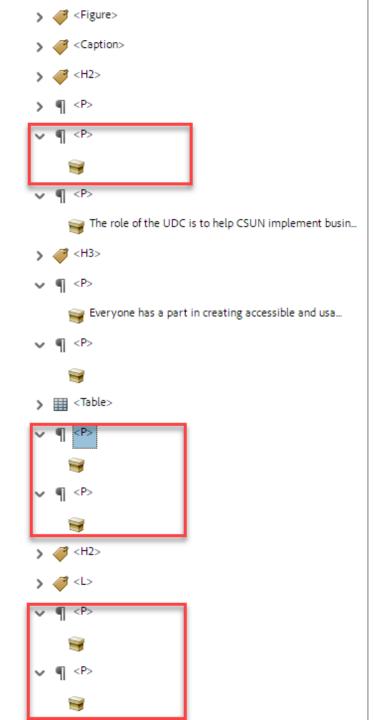


- Images are tagged as "Figure"
- Or images with short text underneath as "Figure/Caption".

Background/Artifact Tag for Decorative Images

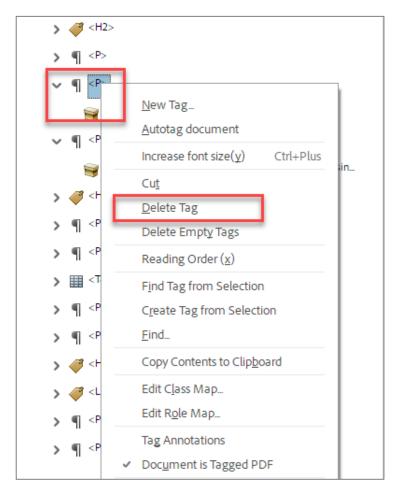
- Conveys no information; does not provide meaningful information.
- Purely for visual effect.
- The horizontal line that divided the two sections.
- Line border image used as part of page design.
- Decorative images do not require a text alternative.
- Decorative images, lines, borders, or shapes ignore by assistive technologies, such as screen readers.





Delete Empty Tags

Empty tags mean no text underneath the tags. Screen readers will say "**Blank**". Recommend to delete any empty tags by selecting <P> or <H2>, right-click to select "Delete Tags".



What are PDF Title and Language?

Title

- A PDF title is a more descriptive and meaningful version of the file name. PDF titles are often visible in the PDF window or tab. This visibility makes it easier to distinguish multiple PDFs before diving in.
- When multiple PDFs are open, well defined PDF titles allow for easier distinction between them. This distinction is particularly useful when relying on screen readers.



Language

Screen readers can "speak" various languages—as long the content language is identified. If the screen reader does not support or cannot speak the defined language, the user might be informed of the content language, even if that content cannot be properly read.

WebAIM: Document and Content Language



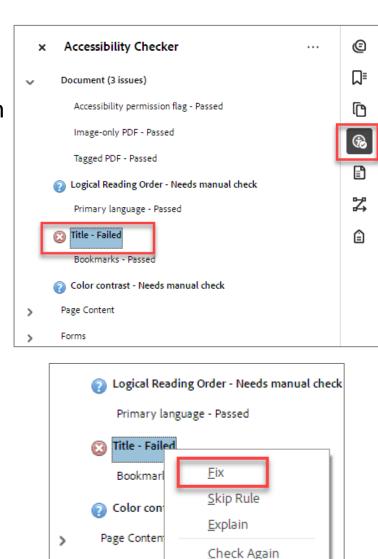
Common Issues – Title shown as a failure

Forms

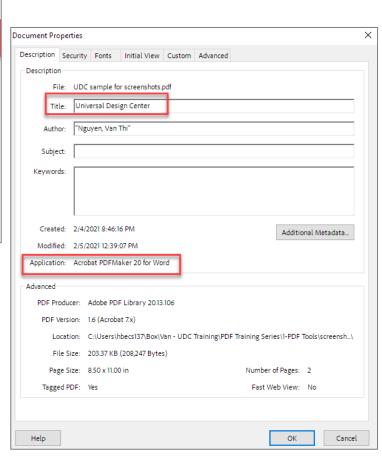
Acrobat did not recognize the Title from Word Document, simply right-click Title item and select "Fix".

The document description gives the document a proper title and language to be recognized by assistive technology.

- Select File menu > Properties
- Description tab, enter Title box is document title or main content heading/title (deselect Leave As Is, if necessary).
- Application box showing the source document created from Word to PDF.

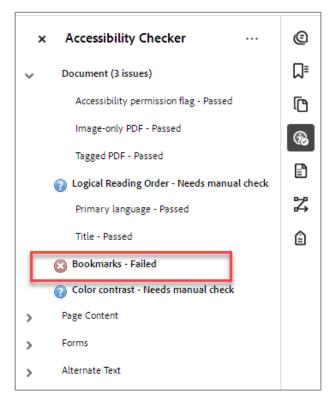


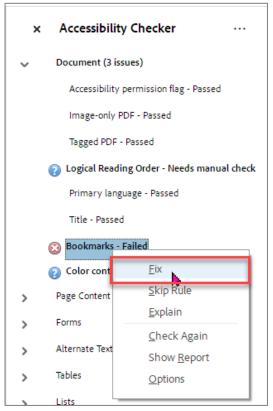
Show Report

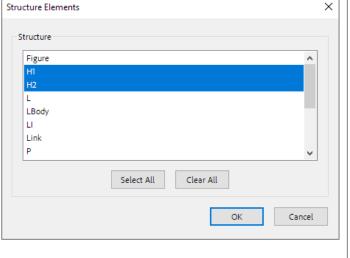


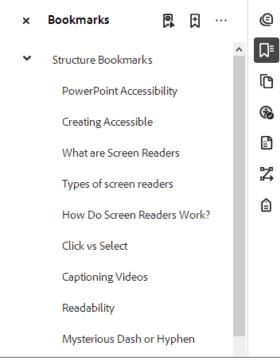
Bookmarks - Failed

If you have more than 9 slides, bookmarks are required. Here is how to fix it. Select H1 or H1 and H2 as structure bookmarks.







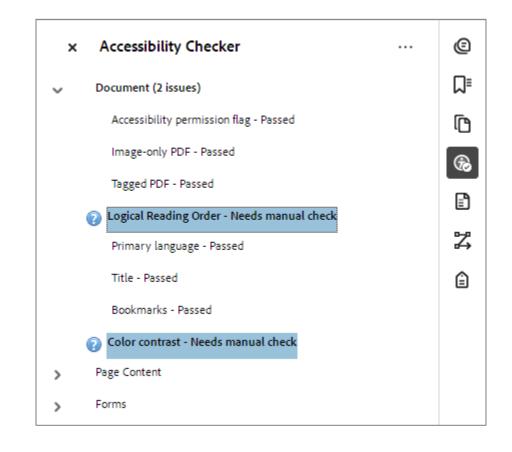


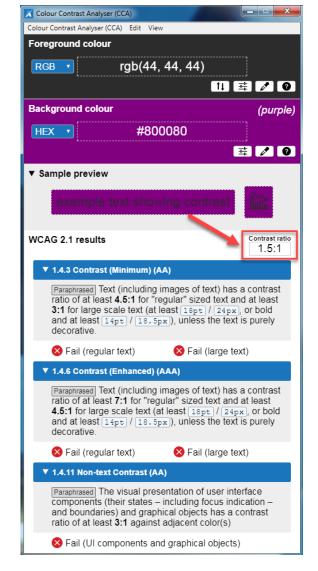
Accessibility Checker – Manual evaluation

The accessibility checker will always flag two items that require manual evaluation:

- Logical Reading Order
- Color Contrast

Two question marks will always stay in **Document (2 issues)** section even if you right-click and select **Pass**. It just there as a reminder to conduct manual check.





People who have low vision or colorblind could encounter some difficulty distinguishing text color from a background color if the contrast is insufficient contrast ratio 1.5:1.



This example has a great color contrast ratio of 8.7:1. The contrast is sufficient for those who have color deficiencies

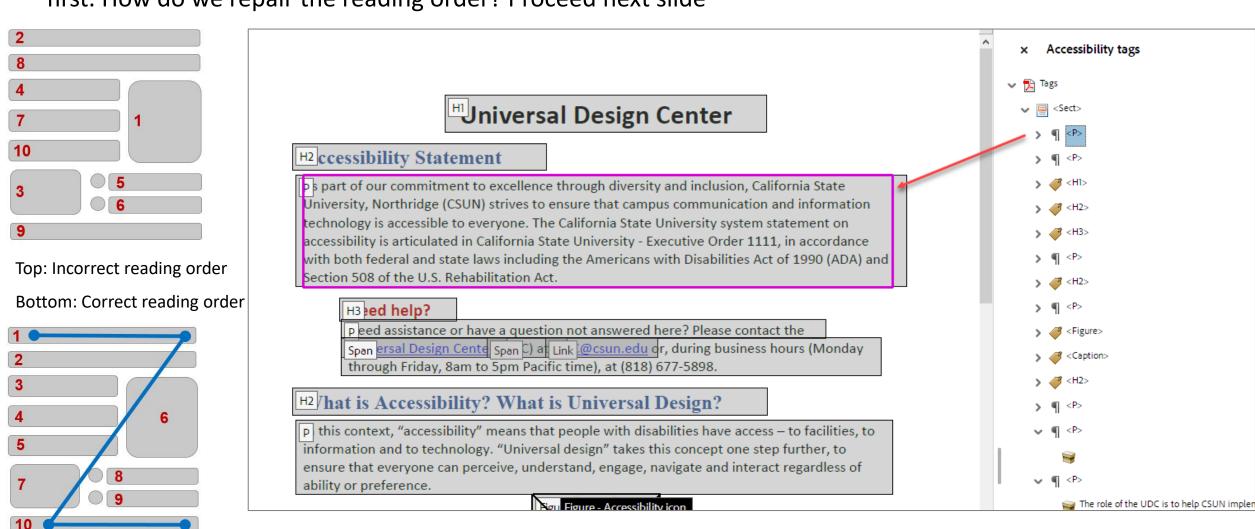
Verify Color Contrast

| Bad Examples | Good Examples |
|-----------------------|-------------------------|
| Red on black is bad | Yellow on black is good |
| Blue on orange is bad | Black on orange is ok |
| Red on green is bad | White on green is good |
| Grey on purple is bad | Aqua on purple is ok |

- Download <u>Colour Contrast Analyser</u> onto your computer (PC/Mac) to ensure accessible contrast or use an online contrast checker from <u>WebAIM</u>.
- WCAG Level AA requires a contrast ratio of at least 4.5:1 for regular sized text (12 or 14 pt. font) and 3:1 for large text (18 pt. font).
- Coblis Color Blindness Simulator

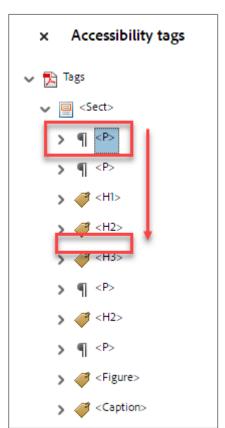
Repairing Reading Order, 1 of 2

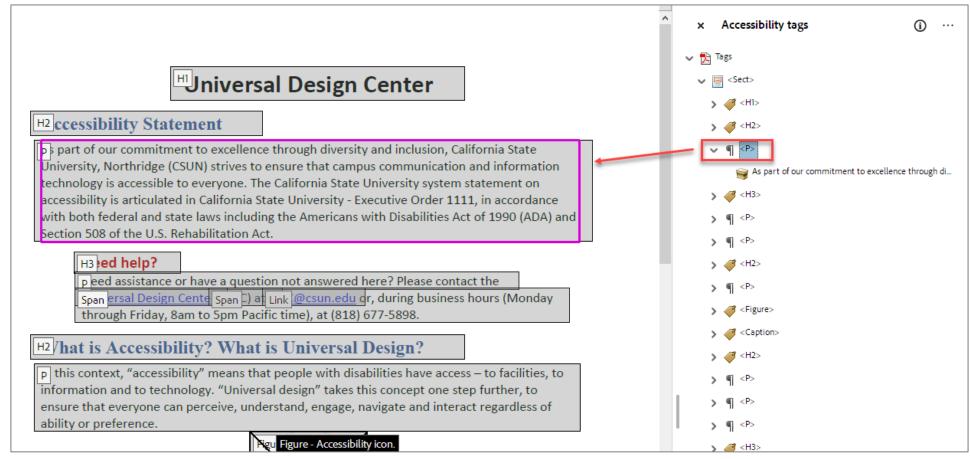
Ensure the **Tags Tree** are in the **correct logical order** to match the document pane. This example illustrated that <P> tag is read first which is incorrect reading order. The <H1> for Universal Design Center should read first. How do we repair the reading order? Proceed next slide



Repairing Reading Order, 2 of 2

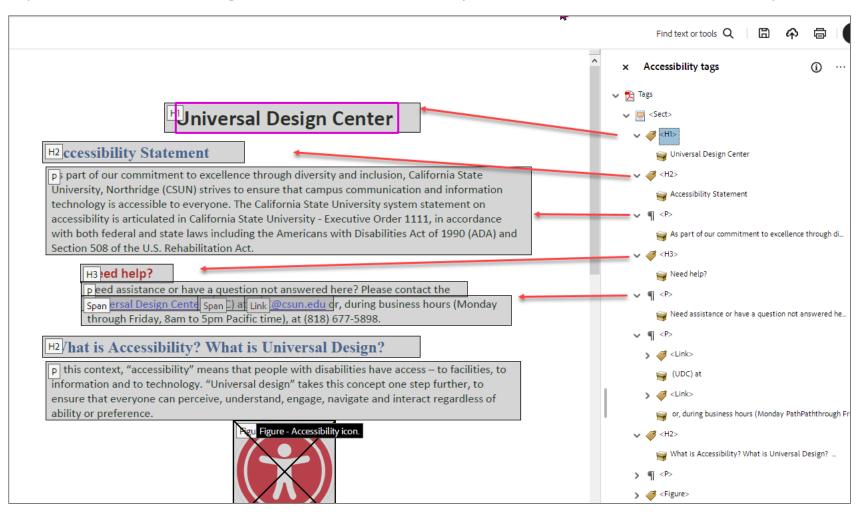
Grab <P> tag then drag after <H2> as shown in Accessibility tags.





Verify Tags Logical Reading Order

Ensure the tags are in the correct **logical reading order** to match the document pane for the screen readers and other assistive technology users. Navigate starting from the top of the tags tree and move through each tag in sequentially using the down arrow key. In case any tag is not in the correct order, grab that specific tag, then move up or down in the right order. Occasionally, the Order Panel is out of sync with Tags tree.

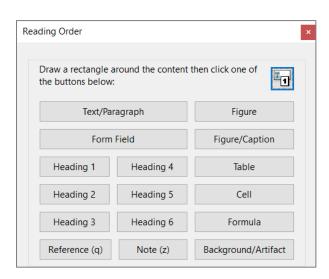


Repair Tags Structure

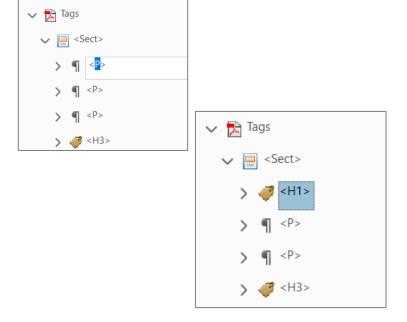
In case you found incorrect pre-assigned tag i.e. <P> for heading title "Universal Design Center" when it should be tagging as <H1>. There are three different ways to correct the tag from <P> to <H1> in below examples.



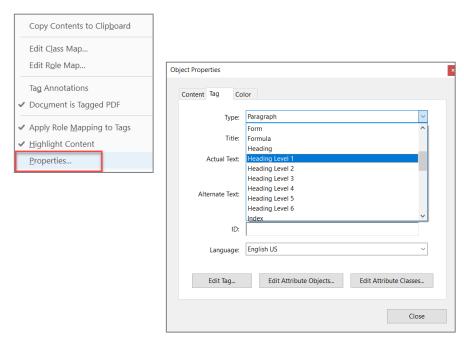
Option 1: Re-draw a rectangle around the content, select one of the Reading Order Tool buttons to tag it.



Option 2: Double-click the tag i.e. <P> then re-type to <H1>

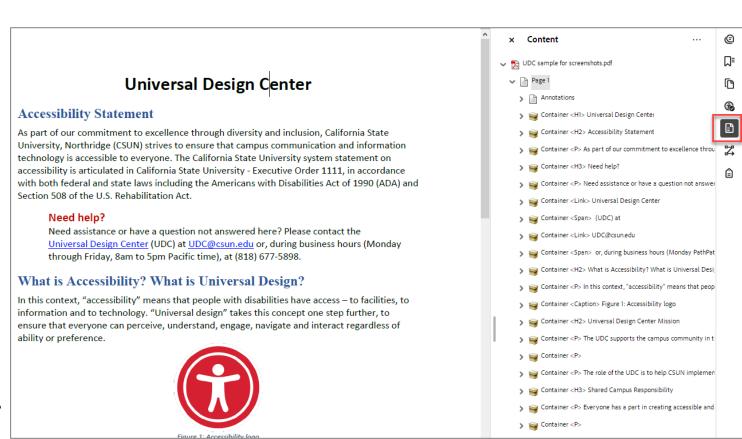


Option 3: Select <P> tag, right-click to select **Properties**. Type box: select Heading Level 1



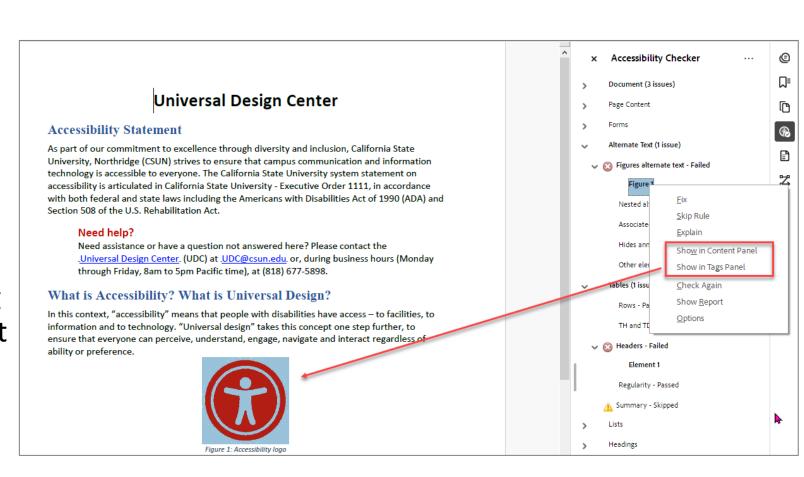
What is the Content Panel?

- The Content Panel shows you the elements on a page and hold all the content within your PDF.
- You should be familiar with structural elements of PDF documents before editing them in the Content Panel.
- The Content Panel can be difficult to navigate because it is not properly organized.
- Editing your Content Panel is most helpful when you have PDFs with lots of graphics or overlapping information. If content is hidden in your PDF, you can go to the Content Panel to find it and reorganize to find the missing info.



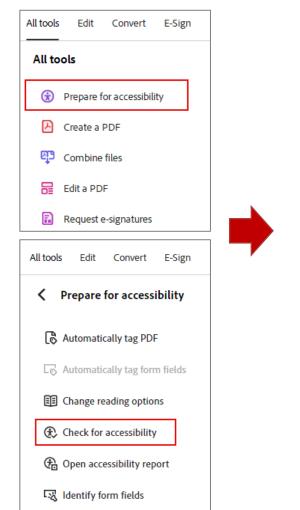
Launch the Tags Panel or the Content Panel

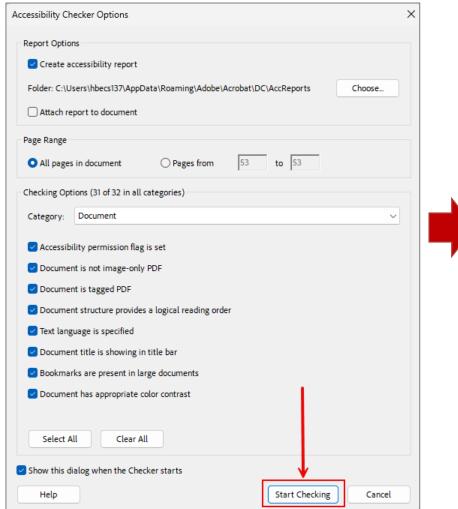
- If you have errors in an Acrobat Accessibility Check, you should have the option to show the error in either the Content Panel or the Tags Panel or both.
- This lets you quickly see what the problem is.
- In most cases, activating/clicking on the error will let you see what it is in the document, but being able to see it in either or both the Content and Tags Panels takes you right to the problem.

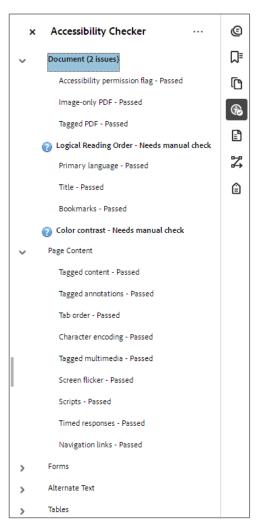


Check for Accessibility Again...

- Go through each section that has one or more issues/failed to fix it until all sections passed.
- Two question marks will always stay in Document (2 issues) section even if you right-click
 and select Pass. It just there as a reminder to conduct manual check.







Enhance document accessibility with cloud-based auto-tagging

Learn how to use Acrobat's cloud-based auto-tagging feature to create accurate and detailed tags enhancing accessibility for screen readers. Read more about Enhance document accessibility with cloud-based auto-tagging.

Use the cloud-based auto-tagging feature from the Accessibility tool

- 1. Open a PDF in Acrobat and choose All tools > Prepare for accessibility > Autotag document.
- 2. Acrobat prompts if you want to enable cloud-based auto-tagging for accessibility. Select Enable.
- 3. Run Check for Accessibility to fix any issues/errors.
- 4. Verify each tag element to match the document pane.
- 5. Ensure the tags are in the correct logical reading order to match the document pane.

Got Image Scan PDFs?

CHAPTER THREE: QUEST FOR THE ORIGINS OF RELIGION

From Chips from a German Workshop: Essays on the Science of Religion and Introduction to the Science of Religion

F. MAX MÜLLER

A Science of Religion

I do not wish to disguise these difficulties which are inherent in a comparative study of the religions of the world. I rather dwell on them strongly, in order to show how much care and caution is required in so difficult a subject, and how much indulgence should be shown in judging of the shortcomings and errors that are unavoidable in so comprehensive a study. It was supposed at one time that a comparative analysis of the languages of mankind must transcend the powers of man; and yet by the combined and well directed efforts of many scholars, great results have here been obtained, and the principles that must guide the student of the Science of Language are now firmly established. It will be the same with the Science of Religion. By a proper division of labour, the materials that are still wanting, will be collected and published and translated, and when that is done, surely man will never rest till he has discovered the purpose that runs through the religions of mankind, and till he has reconstructed the true Cipitus Dei on foundations as wide as the ends of the world. The Science of Religion may be the last of the sciences which man is destined to elaborate; but when it is claborated, it will change the aspect of the world, and give a new life to Christianity itself.

The Fathers of the Church, though living in much more dangerous proximity to the ancient religions of the Gentiles, admitted freely that a

comparison of Christianity and other religions was useful. "If there is any agreement," Basilius remarked, "between their [the Greeks] doctrines and our own, it may benefit us to know them: if not, then to compare them and to learn how they differ, will help not a little towards confirming that which is the better of the two."

But this is not the only advantage of a comparative study of religions. The Science of Religion will for the first time assign to Christianity its right place among the religions of the world, it will show for the first time fully what was meant by the fullness of time; it will restore to the whole history of the world, in its unconscious progress towards Christianity, its true and sacred character.

Not many years ago great offense was given by an eminent writer who remarked that the time had come when the history of Christianity should be treated in a truly historical spirit, in the same spirit in which we treat the history of other religions, such as Brahmanism, Buddhism, or Mohammedanism. And yet what can be truer? He must be a man of little faith, who would fear to subject his own religion to the same critical tests to which the historian subjects all other religions. We need not surely crave a tender or merciful treatment for that faith which we hold to be the only true one. We should rather challenge for it the severest tests and trials, as the sailor would for the good ship

Reprinted from F. Max Müller Chips from a German Workshop: Essays on the Science of Religion, vol. 1 (London: Longmans, Green & Company, 1867), and Introduction to The Science of Religion (London: Longmans, Green & Company, 1873).

Option 1: How do I fix a scanned PDF?

Your <u>Subject Specialist</u> at the University Library may be able to help you find a more accessible digital copy of textbooks, journals, articles, or publications for your courses.

Option 2: Mathpix Tool

Highly recommend trying the <u>Mathpix tool</u> to convert PDFs or images of text to digital documents. Digitize printed, image of text, handwritten, or math equations, which can be converted to editable Word Documents, Notes, or exported to other formats like LaTeX, Markdown, and more.

Use screen reader to finalize your document accessibility features

DO NOT use Adobe Acrobats built-in 'Read Out Lout' tool as a screen reader. This tool is NOT a screen reader and will not capture the same information as screen readers below.



Microsoft Windows NVDA screen reader that allows blind and visually impaired users to read the screen either with a text-to-speech output or by a refreshable Braille display. NVDA can be downloaded free of charge by anyone.

nvaccess.org



 Apple VoiceOver built-in provides auditory descriptions of each onscreen element using gestures, a keyboard, or a braille display.

How can we help you make a difference?





Universal Design Center Offers

- Live training each semester
- Online, self-paced training
- Consultations
- Tools and Services



Self-Paced Accessibility Canvas Courses