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U.S. Department of Health & Human Services

Section 508 Guide Tagging PDF's in Adobe Acrobat Pro

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Purpose

The purpose of this document is to guide authors in correctly tagging PDF documents based on WCAG 2.0.

Introduction

Original section 508 standards did not explicitly provide technical standards for electronic documents. <u>Refreshed standards</u> explicitly include electronic documents in addition to enhanced standards, WCAG 2.0, many which are also <u>mapped to current standards</u>. All public facing documents are required to be compliant when posted to a site, distributed across the agency, or used as a sole means of information.

In order for a PDF to be accessible, both the content and the back end structure must be free from issues that would alter or block information to users with disabilities. In PDF's, the back end structure is referred to as the Tag structure and it allows Assistive Technology (AT) users a way to interpret the content of the document in the same manner of a visual user.

This guide aims to help authors of PDF's as well as those tasked with reviewing PDF's to ensure WCAG 2.0 and thus 508 compliance by showing the basic steps for tagging a PDF.

- Fillable forms are out of scope for this document.
- The screenshots in this guide are from Acrobat XI and may appear different in other versions, however the concepts are universal
- Only correct examples are given, but a full list of <u>HHS Common Accessibility issues to avoid for</u> <u>PDF</u> can be helpful to review.
- This course assumes 'Creating Accessible Office Documents' was already taken as a prerequisite. As such, if you are tagging a PDF where you did not author the content, or use a different program other than Office, it's best to do a quick sweep to ensure the document is free from other 508 issues that would require a visual change including:
 - o A complex image lacking an alternate description
 - Low color contrast of text
 - Conveying information with color only
- Certain WCAG 2.0 guidelines do not apply because of a stated exception, these are:
 - o 2.4.1 Bypass Blocks;
 - o 2.4.5 Multiple Ways;
 - o 3.2.3 Consistent Navigation;
 - o 3.2.4 Consistent Identification.

Document Properties and General Settings

Certain settings must be configured in Acrobat to ensure the file meets HHS standards and to pass the built in Accessibility Checker tool. Fully passing the accessibility checker is required for compliance.

Add/Modify Document Properties:

- 1. From the Menu bar select "File" and choose "Properties."
- 2. Under the Document Properties, Select the "Description" tab.
- 3. Add/Modify the following properties
 - a. Title: The title of the document.
 - b. Author: Your Agency/Division/Office (not a person)
 - c. Subject: Brief identification of the subject of the document
 - d. Keywords: Use any word or phrase important in the content of your document.

Description Se	curity Fonts Initial Vi
- Description	
File:	fy2017-budget-justifica
Title:	
Author:	
Subject:	

Setting the Language

- 1. From the Menu bar select "File" and choose "Properties".
- 2. Under the Document Properties, Select the "Advanced tab".
- 3. Select the Language under the dropdown menu and click OK.

Document Properties
Description Security Fonts Initial View Custom Advanced
Base URL:
Search Inde <u>x</u> :
Irapped: Unknown
Print Dialog Presets
Page Scaling: Default 💙
DuplexMode: Simplex
Paper Source by Page Size:
Print Page Range:
Number of Copies: Default
Reading Options
Binding: Left Edge 🗸
Language:
Arabic
Bulgarian
Chinese - Simplified Chinese - Traditional
Croatian
Czech
Danish Dutch
Help OK Cancel

Defining the Tab Order



- 1. Select the pages icon
- 2. Select all pages in the document
- 3. Right Click and select "Page properties"
- 4. From the "Tab order" panel select the "Use Document Structure" radio button

Page Properties	23
Tab Order Actions	
 Use Row Order Use Column Order Use Document Structure Unspecified 	
Choose one of the above options to set the order for tabbing through items on a page.	
OK Cance	!

5. Select OK

Showing the Document Title

- 1. From the Menu bar select "File" and choose "Properties".
- 2. Under the Document Properties, Select the "Initial View" tab.
- 3. For the Show dropdown, select "Document Title"

Description	Security	Fonts	Initial View	Custom
-Layout and	l Magnific	ation		
Naviga	tion tab:	Page O	nly	
Pag	e layout:	Single F	age Continu	ous
Magni	fication:	Default		_
Open	to page:	1	of 137	
-Window O	ptions			_
Resize	window to	o initial p	age	
Center	r window o	on screen		
🔲 Open	in Full Scre	een mode	2	
Show:	Documen	t Title 🔻		_



Introducing and setting the tag structure

PDF tags provide a hidden structured, textual representation of the PDF content that is presented to screen readers. For example, documents that have visual lists can be tagged with list tags, documents that have visual data tables can be tagged with table tags, etc. They exist for accessibility purposes only and have no visible effect on the PDF file. When a PDF is created from an office file, initial tags will be generated based on the content of the office file and the styles used.

Throughout the rest of this document, multiple methods for the same action may be shown. This is because tagging the content can be very sensitive, especially with complex documents, so one method may yield different results than the other.

Locating and understanding the tags panel

By default, the tags icon should be available on the far left pane, which at that point it can be selected.



If for some reason the icon does not appear:

Choose View > Show/Hide > Navigation Panels > Tags.

File	Edit	View 1 He	elp			
-	Cre	Rotace view	•			
		Page <u>N</u> avigation	٠			
		Page Display	•	1		
ſ	Ta	Zoom	•			
	L	Tools	•			
P	8:	Co <u>m</u> ment	•			
		Share	_		_	
Ŷ		Show/Hide	2	Mavigation Panes	3	(), <u>A</u> rticles
		Read Mode	Ctrl+H	🚥 <u>T</u> oolbar Items	- 11 +	Attachments
LJ2		Eull Screen Mode	e Ctrl+L	<u>M</u> enu Bar	F9	
		Read Out Loud	•	<u>R</u> ulers & Grids	•	Co <u>n</u> tent
	Ц.,	<u>Compare Docume</u>	ients	Cursor Coordinates		Destinations
62	r	2			_	S Layers
Z						😫 Model Tr <u>e</u> e
10						😤 Order
\bigcirc						Page Thumbnails
	1					Signatures
						✓ [™] Tags 4
						Hide Navigation Pane F4
						<u>R</u> eset Panes

The Tags panel will then display. Individual tags can be expanded one by one with the plus sign or all tags can be expanded at once. To do so:

- 1. Hold Shift plus Ctrl
- 2. Click on the plus sign on the tags panel "Tags"

Tags	_
8≡ y	

Acrobat has <u>standard tags</u> used to define pieces of content. Most have a preceding standard tag icon (however certain tags have unique icons such as paragraphs and tables):



Within each tag will either be additional tags or content. Content is preceded by a box icon:



To see the visual location of the content in the PDF, select the content or tag containing the content in the tag tree, a blue box will appear around the content in the PDF:

Tags	()
8=*	i
E- 🔁 Tags	
□ - 12 Tags □ - 2 Tags □ - 2 Cocument> □ - 2 Cocument	
⊟-¶ <p></p>	
FEBRUARY 2016	
⊕- (<h2></h2>	

If the content does not highlight, ensure the proper setting by:

- 1. Selecting the options icon
- 2. Ensuring the Highlight Content option is checked

Tags
<u>N</u> ew Tag
Cut
P <u>a</u> ste
Pa <u>s</u> te Child
<u>D</u> elete Tag
Find Tag from Selection
Create Tag from Selection
<u>F</u> ind
Chang <u>e</u> Tag to Artifact
<u>C</u> opy Contents to Clipboard
Edit C <u>l</u> ass Map
Edit R <u>o</u> le Map
Tag Annotations
✓ Doc <u>u</u> ment is Tagged PDF
Sho <u>w</u> in Content Panel
✓ <u>H</u> ighlight Content

Retagging a Document

Acrobat Pro has a functionality for automatically tagging an untagged PDF document or a document that needs to be retagged. Even if you converted from Office using the Acrobat add in, it's a good idea to compare that tagging with this retagging. The idea is to use the best initial tagging (based on the proper tagging techniques for content discussed in proper tagging for common elements) to start working from.

There are two methods to retag:

Method 1:

- 1. Select the View Menu from the top navigation bar
- 2. Choose Tools, Accessibility, Add Tags to Document.

Tools 1 mment Share
▶ Pages
► Content
► Forms
 Action Wizard
► Recognize Text
Protection
► Sign & Certify
Accessibility 2
Change Reading Options
Quick Check
Sull Check
S Open Accessibility Report
Add Tags to Document 3
RuAutodetect tags and report res
Add Form Fields to Tags

Method 2:

- 1. From the tags panel, right click the top 'Tags' tag
- 2. Select Delete Tag
- 3. Right Click 'No Tags Available"
- 4. Select Add Tags to Document

Tags	
8=-	
🔀 No Tags a	
	Create Tags Root
	<u>A</u> dd Tags to Document
LL	

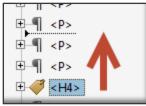
Moving Tags and Content in the Tag Structure

Assistive technology will read the content in the order it appears in the tag structure. Reading order issues can be introduced in the conversion or initial tagging process so it is important to ensure the tag structure reflects the logical reading order of the document. Moving a tag may also be needed to ensure the proper structure of more complex content such as lists and tables. To move:

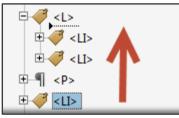
- 1. Select the tag or piece of content you want to move
- 2. Drag the tag or piece of content to the location you want. (As you drag, a line appears at viable locations)

Most common moves you will perform:

Moving a tag up or down in the structure to fix a reading order issue



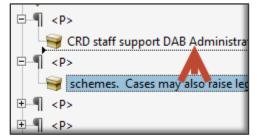
• Moving a tag to be a child of another tag to ensure proper structure such as a list



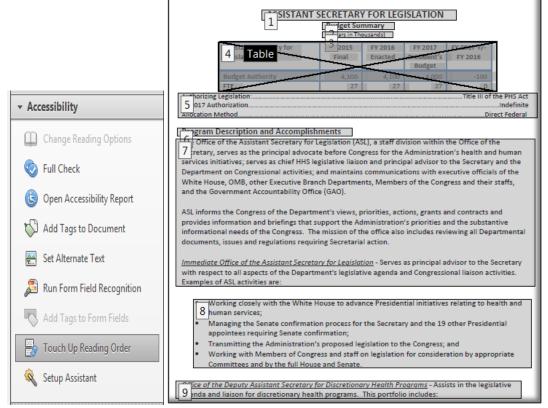
Moving a piece of content to an empty tag



• Moving a piece of content from one tag to another such as a paragraph that split across a page



• To get a high level view of the reading order you can use the Touchup reading order tool which will show the basic order of the content on the page

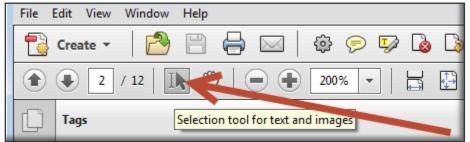


- It is not recommended to use the touchup reading order tool to fix reading order issues as it may cause additional issues in the tag structure
- If ever there is a disconnect between the order displayed in the touchup reading order tool and the tag structure, go by the tag structure

Finding Tagged Content from the Document Panel

When a document has a great deal of tags, it is sometimes difficult to find which content belongs to which tag and vice versa. These steps will help find the tagged content you are looking for.

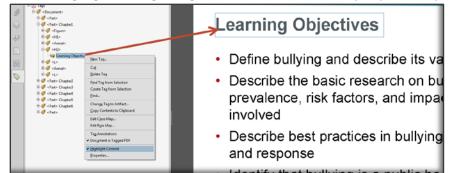
1. Select the Tool Select tool icon from the top menu bar



- 2. Select text, an image, or a table from the document panel
- 3. Select the Options menu at the top of the Tags pane and then select Find Tag from Selection.



4. This will highlight the tag or tags that contain the content you previously selected.



5. If the content is untagged, you will get a message that reads "The Selection was not found"



Modifying Tags

When a piece of content is incorrectly tagged, the tag needs to be updated. This can either be done directly in the tag tree or using the touchup reading order tool. While the touchup reading order tool might be easier, not all tags are available with this method.

Method 1

- 1. From the tags panel, right click the desired tag
- 2. Select Properties
- 3. Select the new tag from the Type dropdown

Ob	oject Properties		×
	Content Tag C	olor	
	Туре:	Paragraph	
	Title:	Label 🖉	
	Actual Text:	List List Item	
		List Item Body Note	
	Alternate Text:	Paragraph E	
		Quote	
	ID:	Reference	

Method 2

- 1. Select Tools from the right-hand menu
- 2. Select Accessibility > TouchUp Reading Order.
- 3. Highlight the desired content by drawing a back around it
- 4. Choose the appropriate button (Text, Figure, Table, Form Field, etc.) from the tool (Or right click and select from the menu).

TouchUp Reading Order	
Draw a rectangle around the content then click one of the buttons below:	
Text Figure	
Form Field Figure/Caption	
Heading 1 Table	Information and Resources
Heading 2 Cell	
Heading 3 Formula	
Background	
Table Editor	
Show page content order	
 Show table cells Show tables and figures 	
Clear Page Structure Show Order Panel	
Help Close	

5. Changes will be reflected in the Tags Panel.

E ✓ <h2></h2>	Information and Resources

- Method 2 can also be used if a piece of content is not tagged
- When using method 2, if you do not highlight the entire content that is contained in a single tag, the part you highlighted will be contained in the new tag and the rest will remain in the original tag
- Using method 2 can also cause visual content to "disappear". In most cases this can be recovered, which is described in the tips and tricks section at the end of this document
- You may find it easier to use method 2 and select a random tag initially (suggest Heading 6), then use method 1 to update to the desired tag

Adding Tags

Tags can be added directly into the tag structure. This can come in handy when building structured elements such as lists or tables, or if a piece of content needs to be moved into a new tag. To add:

- 1. Navigate to the tag structure
- 2. Select a tag
- 3. Right click and select New Tag
- 4. Select a new tag from the dropdown
- 5. Select Ok

an namiae	t for enrollment Whi	16
New Tag		
_		-
Type:	Span	-
	Quote	
Title:	Reference	
	Section	
	Span	
	Table	
05.055.	Table Data Cell	
are Part SA in wri	Table Header Cell	
are Part	Table Of Contents	=
not occur	Table Of Contents Item	
al of Med	Table Row	Ŧ

6. The new tag will be placed underneath the tag selected in step 2 at the same level

- Once the new tag has been added, move into the desired position in the tag tree
- Existing content (tagged or untagged) can be brought into the tag by moving or:
 - 1. Highlighting the content in the document
 - 2. Right clicking the new tag
 - 3. Selecting Create Tag from Selection

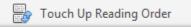
⊕ ♥ <h3> ⊕ ¶ <p> ♥ <reference></reference></p></h3>		^M indi
	<u>N</u> ew Tag	man
±-¶ <p></p>	Cu <u>t</u>	FG
	<u>D</u> elete Tag	^{FG} indi
⊡-¶ <p> ⊡-Ø <slide18></slide18></p>	Find Tag from Selection	IIIGA
⊕ ≪ sinde18> ⊕ ≪ <h2></h2>	C <u>r</u> eate Tag from Selection	HE · 1

Removing Content/Tags from the Tag structure

Not all content included in the PDF should be in the tag structure. Upon conversion or initial tagging, there may be background elements such as carriage returns or lines for separation, and decorative images that do not convey information. Leaving these elements in the tag structure has the potential to confuse those who rely on assistive technology to interpret the page. You can remove decorative and irrelevant page elements from the tag structure without changing the visual look and feel of the document. This will hide the content from assistive technology users. Tagged content can be hidden with two methods:

Method 1

- 1. Go to the page of the content
- 2. Select the touchup reading order tool

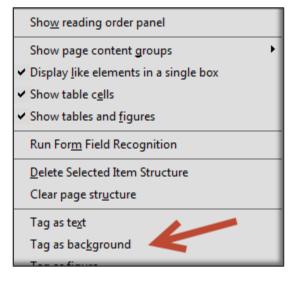


- 3. Select the content on the page (either select the number that encompasses the content, or use the mouse to draw a box around the content)
- 4. Select the Background button

Draw a rectangle around the content then click one of the buttons below:		
Text	Figure	
Form Field	Figure/Caption	
Heading 1 Heading 4	Table	
Heading 2 Heading 5	Cell	
Heading 3 Heading 6	Formula	
Background		

If the touchup reading order window is closed:

- 1. Right click the content
- 2. Select Tag as Background

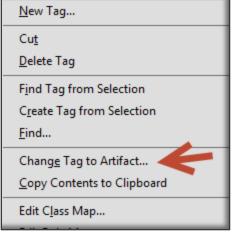


Method 2

- 1. Find the content in the tag structure
- 2. Select the content (not the tag that contains the content)



3. Right click and select Change Tag to Artifact

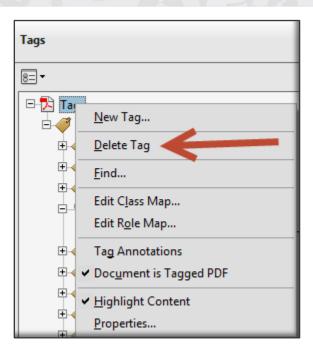


4. Keep the defaults and select OK

Deleting Empty Tags

Simply deleting these tags from the structure when they contain content will prevent them be being seen by assistive technology but these untagged elements will then be flagged by the Accessibility Checker. **Therefore only delete a tag that is empty!** To do so:

- 1. Select the empty tag from the tags panel
- 2. Right click and select and select Delete Tag



- Additional Resources
 - o https://www.w3.org/TR/2015/NOTE-WCAG20-TECHS-20150226/PDF4

Proper Tagging for Common PDF Content

This section explains the proper end tagging for common contents of a PDF.

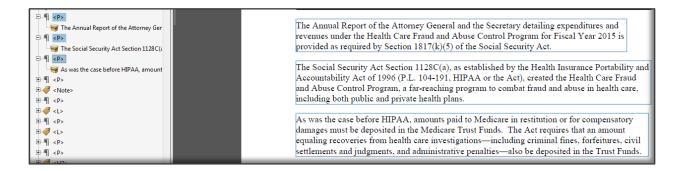
Paragraphs

Paragraph tags should be used on visual paragraphs in the document and plain or decorative text that stands on its own which is not acting as a heading.

ſ	<p></p>
ſ	<p></p>
ſ	<p></p>

<P> - Paragraph tag, used to encompass a single paragraph or standalone piece of text

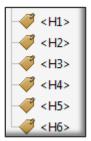
Correct Implementation



- Text of visual paragraphs that span across pages should be contained in a single paragraph tag
- Other contents within a single visual paragraph that require additional unique tags, such as a footnote reference or a link, should also be contained in a single paragraph tag

Headings

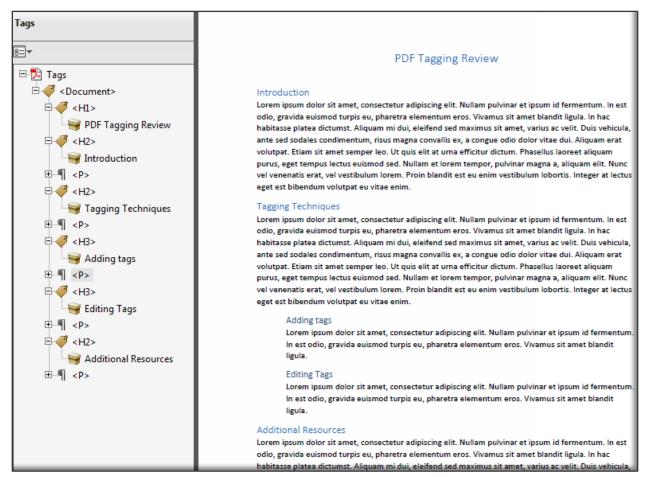
Heading tags should be used on text that was visually modified to act as a heading / define a section of text in the document. There are 6 levels of tags that should follow a logical progression (no skipping levels) as sub sections are introduced.



<H1> - Heading level 1 tag, in most cases used a single time to encompass the main title of the document

<H2> - Heading level 2 tag, in most cases used to encompass main sections or chapters of the document <H3> through <H6> - Used as necessary to encompass headings that are subsections of the previous level

Correct Implementation



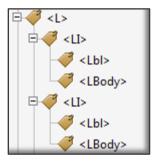
- Only use heading tags on pieces of text that define a section of content
- Text with a different look and feel does not necessarily make it a heading
- Recommend only using H1 once to tag the title of the document
- If heading levels past 6 are necessary, recommend using a Span tag on the content with the following technique:
 - 1. Select the span tag and right click
 - 2. Select Copy contents to clipboard
 - 3. Select the span tag and right click
 - 4. Select Properties
 - 5. Type Heading Level X in the Actual text field (X being the desired level)
 - 6. Paste the contents into the text field

⊕—¶ <p> ⊖ </p>	Object Properties	
Tagging Techniques	Content Tag Color	
⊕- ∛ <h3> ⊕-¶ <p></p></h3>	Type: Span	
	Title:	
● ¶ <p>● ♥ <h2>● ♥ <p></p></h2></p>	Actual Text: Heading Level 7 Tagging Techniques	

- Additional Resources:
 - 1. http://www.w3.org/TR/2014/NOTE-WCAG20-TECHS-20140408/pdf.html#PDF9

Lists

List tags should be used on sequential items that are either numbered or bulleted. This ensures visual lists, including the number of items, are properly announced to assistive technology.



<L> - Main list tag, contains at least 1 tag and is used to encompass a single visual list

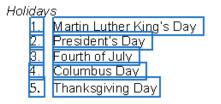
 - List Item tag, contains 1 <Lbl> and 1 <Lbody> tag and is used to encompass a single item in the list

<Lbl> - Label tag, used to encompass the item number or bullet character.

<LBody> - List body tag, in the case of a nested list contains a <L> tag, and is used to encompass the content of the list item

Correct Implementation (Simple List)





Correct Implementation (Nested List)



- The label tag is considered optional, but the bullet or number must be contained in the <lbody> tag if omitted
- Bullets are considered informational and must not be set to background
- In cases where a numbered item is separated by paragraphs of text, headings are recommended
- Additional Resources
 - o https://www.w3.org/TR/2015/NOTE-WCAG20-TECHS-20150226/PDF21

Figures

Figure tags should be used on visual images that convey information. The alternate text property of the figure tag should contain text that conveys the same information a sighted user gains.



<Figure> - Figure tag, used to encompass a single image, or group of related images and or content.

Add/Modify Alternative Text of a Figure

There are two ways to add alternate text to a Figure.

Method 1

- 1. Select the TouchUp reading order tool
- 2. Right click on the figure
- 3. From the drop down menu select "Edit Alternative Text"
- 4. Modify the Alternate Text field

t and exercise are	Alternate Text
S to the execute the second se	Alternate Text: Diet and exercise are important determinants of bone and muscle strength, and the choices we make will strongly influence musculoskeletal health as we age."
minutes. The National Osteoporosis Foundation recommends that women have a screening DXA scan at age (5 years and men at age 70 years to assess their sisk for finature," and it recommends DXA scans at	OK Don't Add Alt-Text

Method 2

- 1. Locate the figure in the tag panel
- 2. Right click the figure tag
- 3. Select Properties
- 4. Select the Tag Tab
- 5. Modify the Alternate Text field (Do not use the actual text field)

Content	Tag	Color	
	Туре	Figur	re 🔻
	Title		
A	ctual Text		
Alter	nate Text		

Correct Implementation

□	NATIONAL	Object Properties	1
🧃 1110ge (+). W.145 11.155		Content Tag Color	
	PREVENTION	Type: Figure	
	LIFELINE	Title:	
	1-800-273-TALK (8255) suicidepreventionlifeline.org	Actual Text:	
	suicideprevendoniareane.org	National Suicide Prevention Lifeline, 1-800-273-TAL (8255). suicidepreventionlifeline.org	К

- Whatever content the figure tag encompasses will be replaced by the alt text field in terms of what is read to assistive technology
- There is no official limit on the alt text field, however best practices recommend limits ranging from 120-250 characters. As such, complex images should adhere to the following guidelines:
 - http://www.w3.org/WAI/tutorials/images/complex/
 - <u>http://webaim.org/techniques/alttext/#complex</u>
- Additional Resources:
 - <u>http://www.w3.org/TR/2015/NOTE-WCAG20-TECHS-20150226/PDF1</u>
 - <u>http://www.w3.org/TR/2015/NOTE-WCAG20-TECHS-20150226/PDF4</u>

Links

Link tags should be used on physical hyperlinks that take users to a destination such as a location in the same document or a URL.



<Link> tag contains the link text of the physical hyperlink and a Link–OBJR tag which enables assistive technologies to properly recognize the link and handle it correctly.

Correct Implementation



- This tagging applies for all physical hyperlinks in Acrobat. Even though a URL may be present in a PDF, it is not hyperlinked unless there is a physical link present. To check for physical links:
 - 1. Navigate to the desired page of the PDF
 - 2. In the content editing tool, select Add or Edit Link

▼ Content Editing		
7	Edit Text & Images	
Ţ	Add Text	
	Add Image	
5	Export File to 👻	
More	Content ———	
B	Add or Edit Link	
P	Add Bo Add or Edit Link	
Ø	Attach a File	

3. Physical links will have a blue box appear around them, and will have an additional menu appear when right clicked

http://www.yahoo.c	om	
•	<u>E</u> dit	•
	Align	•
	<u>C</u> enter	•
	<u>D</u> istribute	•
	Size	•
	Use Current Appearance as New Defa	ult
	<u>P</u> roperties	Ctrl+I

- 4. If a physical link should be present but is not, it can be added but be sure to follow the steps in the <u>Add/Modify Links</u> section of this guide to add a Link-OBJR tag
- On the flip side, if you find a physical link that should not be there, it should be deleted

Edit	•	Cut	Ctrl+X
Align	•	<u>C</u> opy	Ctrl+C
Center		Paste	Ctrl+V
Distribute	•	<u>D</u> elete	
<u>S</u> ize	•	Select All	Ctrl+A
Use Current Appearance as New	Default		
Properties	Ctrl+I		

- The order of the Link-OBJR and link text does not matter
- Additional Resources:
 - o https://www.w3.org/TR/2014/NOTE-WCAG20-TECHS-20140408/pdf.html#PDF11

Language of Foreign Words or Phrases

When a word or phrase appears in the document that is a different language then the main language of the document, the tag containing that word or phrase must have the language properly set so screen readers can correctly announce the content.

Correct Implementation

The tag containing the foreign phrase has the language correctly set in the properties:

)	Object Properties
	Content Tag Color
ATTENTION: If you speak Englis you. Call 1-877-696-6775.	Type: Paragraph
ATENCIÓN: si habla español, tie Llame al 1-877-696-6775.	Title: Actual Text:
The U.S. Department of Health a	
rights laws and does not discrimi sex. The <u>HHS nondiscrimination</u>	ID:
if you feel that HHS has failed to	Language: Spanish 🗸
	Edit Tag Edit Attribute Objects Edit Attribute Classes

- In situations where the word or phrase is in the same sentence, use a Span tag for only the word or phrase and set the language of the Span tag.
- Additional Resources:
 - W3 PDF Technique #19

Table of Contents

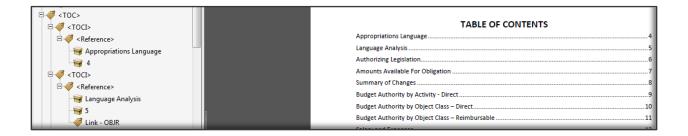
Table of Contents tags should be used on the visual table of contents of a document.

🧳 <toc></toc>
⊕
⊕
⊕
⊕
🗉 🎺 <toci></toci>

<TOC> - Main Table of Contents tag, contains at least 1 Table of Contents Item tag and used to encompass an entire table of contents instance

<TOCI> - Table of Contents Item tag, may contain another tag such as paragraph or Link/Reference and used to encompass the content of the visual table of contents entry

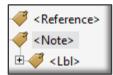
Correct Implementation



- Multiple table of contents can exist in a single document, for example if there is an additional list of tables, figures, etc.
- If the table of contents is physically linked, each Link-OBJR should appear in the Link/Reference tag for each table of contents item
- Some resources have both a reference and a link tag
- Best practices are to mark the leaders (.....) as background
- Additional Resources:
 - o https://www.w3.org/TR/WCAG20-TECHS/G64.html

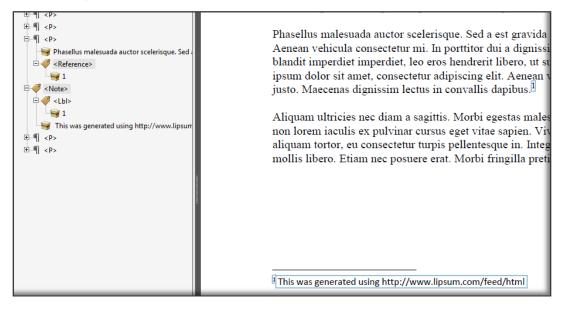
Footnotes/Endnotes

Reference and Note tags should be used on citations within the main body and the corresponding foot or end note respectively.



<Reference> - Reference tag, used to encompass a citation in the main body of the document <Note> - Note tag, contains a label tag and used to encompass the footnote/endnote text <Label> - Label tag, used to encompass the citation in the footnote/endnote that corresponds to the citation in the reference

Correct Implementation



- The Label tag is optional under the Note tag
- Suggest removing any physical links for same page footnotes
- There is no single standard for setting the order for footnotes or endnotes
 - Suggest putting the Note tag immediately following the main tag containing the Reference (such as a Paragraph, Table, List, etc.) so as not to disrupt the flow of the main content
 - o However, you can also put the Note tag immediately after the Reference tag or;
 - Or at the end of the page or document
- One thing you should not do is have the Note tag split an unrelated paragraph (can occur on the initial tagging when a page contains a footnote and a paragraph that starts on the page and finishes on the next)

Tables

Table tags should be used only on visual data tables and need special tagging to ensure understandability and relationships between header cells and data cells.

Table>	
🖻 🌐 <tr></tr>	
⊕ 🔠 <th></th>	
□ 🖽 <tr></tr>	
±	
⊕ 🌐 <tr></tr>	
⊞ = = = < TR>	

<Table> - Main table tag, contains at least 1 <TR> tag and is used to encompass a single visual data table (including tables that span multiple pages)

<TR> - Table Row tag, contains 1 <TH> and or <TD> tag and is used to encompass a single row of a data table

<TH> - Table Header tag, used to encompass data table cells that are header cells (header cells define data cells)

<TD> - Table data cells, used to encompass data table cells that are purely data

Ensuring structure

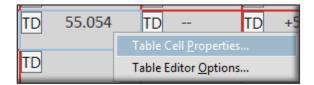
Coding HTML data tables for accessibility is almost exactly like tagging PDF data tables for accessibility. As such if you have a developer resource, they should be able to aid you in obtaining the correct structure of your table. Good structure depends much on how the table was created in the source document, but even a good structure can get altered on the conversion. Acrobat has a built in table editor to aid. To use:

- 1. Open the Touchup reading order tool
- 2. Select the table
- 3. Select Table editor

	Text	Figure
Table	Form Field	Figure/Caption
	Heading 1 Heading 4	Table
Increases:	Heading 2 Heading 5	Cell
Assistant S	Heading 3 Heading 6	Formula
National	Background	
Subto	N	
Pandemic	Table Editor	

Acrobat will then draw lines based on the current tagging to give a visual representation of the table. Properties of individual cells or groups of cells can then be modified. To do this:

- 1. Select a cell
- 2. To select multiple cells, hold shift while selecting additional cells
- 3. Right click and select Table cell properties



In particularly complex tables, the table editor may become unresponsive at times and you'll have to modify properties within the tag structure. To get an accurate view of the table structure at any point, we recommend using the <u>PAC PDF Accessibility Checker 2.0.</u>, in particular the screen reader preview which will give you the programmatic view of your table structure that you can use to diagnose issues.

Table	TR	TD		Ħ	Details	Ħ	Budget Estimates to Congress	Ħ	House Allowance
e	TR	Ħ	FY 2006	TD	Appropriation	TD	203,589	đ	60,633
	TR			đ	Rescissions	Ð		Ð	
	TR			TD	Transfer to CMS	Ð		Ð	
	TR			TD	Supplemental Appropriation	TD		Ð	
	TR	Ŧ	FY 2007	đ	Appropriation	đ	218,413	Ð	160,475
	TR			Ð	Supplemental Appropriation	Ð		Ð	
	TR	Ŧ	FY 2008	TD	Appropriation	đ	1,729,211	đ	1,705,382
	TR	Ŧ	FY 2009	đ	Appropriation	đ	2,300,831	đ	1,443,827
	TR			đ	Supplemental Appropriation (PL 111-5)	Ð		Ð	900,000
	TR			đ	Supplemental Appropriation (PL 111-32)	Ð		Ð	
	TR			đ	Transfer to CDC	đ		Ð	
	TR	Ŧ	FY 2010	Ð	Appropriation	đ	2,678,569	Ð	2,100,659
	TR			Ð	Supplemental Appropriation (PL 111-212)	Ð		Ð	
	TR			Ð	Rescission (PL 111-226)	Ð		Ð	

Setting column and row spans

If you have a cell that spans more than 1 row and/or column of a table, you need to ensure the Row Span and Column Span values are correctly set. There are two methods.

Method 1:

- 1. Open the table editor
- 2. Select the Cell
- 3. Right click and select Table Cell Properties
- 4. Set the appropriate values for Row and/or Column Span

Attributes		
	Row Span:	1
	Column Span:	1

Method 2:

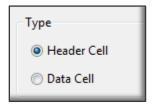
- 1. Open the Tag structure
- 2. Select the Cell
- 3. Right click and select Properties
- 4. Select Edit Attribute objects
- 5. If attribute objects exist, expand and select existing Row Span or Column Span (if not, skip to step 8)
- 6. Select the attribute and select Edit Attribute
- 7. Set the correct values and click OK
- 8. If attribute objects do not exist
- 9. Select New Item
- 10. Modify the auto-generated /O attribute from Layout to Table
- 11. Select New Item
- 12. Set the Key to either Row Span or Column Span (Capitalization matters)

- 13. Set the value appropriately
- 14. Set the Value Type to Integer

Add Key and Value					
Key:	RowSpan				
Value:	3				
Value Type:	Integer 🗸				
	OK Cancel				

Setting Header cells

Once the structure is correct, the header cells must be defined as TH cells. Either change the appropriate TD cells to TH cells in the tag structure or use the table editor to make the change (multiple cells can be changed at one time in the table editor).



Setting Scope

If the data table has one set of column and one set of row header cells, scope will need to be set. Header cells that define a column need to have scope set to column. Header cells that define a column need to have scope set to Row. Either set the scope through the table editor (multiple cells can be changed at one time)

Scope:	Column
	Row
	Column
	Both
	None

Or set the scope through the attribute objects. In this case:

- 1. Modify the existing value or;
- 2. Add a new item
- 3. Modify the auto-generated /O attribute from Layout to Table
- 4. Set the Key to Scope (Capitalization matters)
- 5. Set the value to either Row or Column
- 6. Set the Value Type to Name



Add Key and Value				
Key:	Scope			
Value:	Row			
Value Type:	Name 💌			
	OK Cancel			

Setting ID/Headers

If the data table has more than one set of column and/or row header cells, a more complex method needs to be used. Header cells will need to be given unique ID's and correctly associated to the appropriate data cells they define. Either set the ID's and associations through the table editor (**Only one cell can be set at a time**)

 +

Or set the ID through the properties of the TH tag

Alternate Text:	
ID:	123456
Language:	
Edit Tag	Edit Attribute Objects

And set the association of the headers in the attribute objects. In this case:

- 1. Modify the existing value or;
- 2. Add a new item
- 3. Modify the auto-generated /O attribute from Layout to Table
- 4. Set the Key to Headers (Capitalization matters)

5. Set the Value Type to Array

Add Key and Va	lue	23
Key:	Headers	
Value:		
Value Type:	Array	•
	OK Cance	el at

- 6. Select the new Headers item
- 7. Add a new item
- 8. Set the Value to the ID of the header cell
- 9. Set the Value Type to String

Add Key and Val	23	
Key:		
Value:	123456	
Value Type:	String	•
	OK Canc	el

Correct Implementation

		Table Cell Properties			
TH <mark>cal Year</mark>	TH Amount		Type Header Cell Scope: Data Cell		
TD2013	TD \$27,984,000				
TD2014 ¹	TD \$28,029,000			Scope:	e: Column
TD2015	TD \$24,789,000				
TD2016 Enacted	TD \$24,654,000		Attributes		_
TD2017 PB	TD \$24,654,000			Row Span:	1
				Column Span:	1

- Additional Resources:
 - 1. <u>https://www.w3.org/TR/2014/NOTE-WCAG20-TECHS-20140408/pdf.html#PDF20</u>
 - 2. https://www.w3.org/WAI/tutorials/tables/

Container Tags

Some standard Acrobat tags are considers container tags that are used purely to section out other tags. They are not required to make a document accessible, however on initial conversions there can be an abundance where you have to drill down levels to get to the actual content.



<Document> - Main document tag used to encompass all the tags and content in the tag structure <Part> - Part tag used to encompass large parts of tags and content <Div> - Division tag used to encompass groups of tags and content <Art> - Article tag used to encompass a standalone group of tags and content <Sect> - Section tag used to encompass a section of tags and content in a Part or Article

Notes

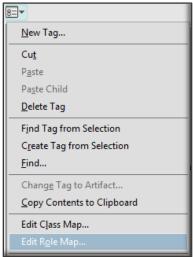
- Suggest cleaning up the container tags as a final activity if time allows.
- Container tags do not negatively affect accessibility and will not cause any issues in the accessibility checker

Role Mapping

On conversion, custom tags can be added to the tag structure. While it is preferred to always use the standard Acrobat tags, at the very least each of the custom tags must logically map to a standard tag.

To see if a mapping exists:

- 1. From the tags panel select the options icon
- 2. Select Edit Role Map



3. Expand the Document Roles

If mapping for a custom tag does not exist:

- 1. Select Document Roles
- 2. Select New Item
- 3. Type the name of the custom tag
- 4. Select the appropriate standard tag from the dropdown

		×	
Add Role			
New Role Name:	Footnote		
Map to This Role:		-	
	Index		
	Label		П
	Link		
	List	_	H
	List Item	=	
	List Item Body		Π
	Note		
	Paragraph		
	Part		
	Quote	-	udg

Correct Implementation

	ApplesOrangesBananas	Path: Document Roles Type: Role Map
CLI Body> CLI Label> CLI Label>	Ballallas	□ Document Roles /LI Body /LBody /LI Label /Lbl

Bookmarks

When the PDF has more than 9 pages, it needs to have bookmarks. Bookmarks are best added at the end when the heading structure tagging is finalized. To add bookmarks based on the structure:

- 1. Select the Bookmark icon
- 2. Select the Options icon
- 3. Select New Bookmarks from Structure

	Bookmarks	
	8=-	
	New <u>B</u> ookmark	Ctrl+B
Ø	New Bookmarks from <u>S</u> tructure	
	Expand Current Bookmark	
Leg2	Expand Top-Level Bookmarks	

- 4. Select the elements to include (suggest selecting all headings H1-H6)
- 5. Select all bookmarks (except Untitled)
- 6. Move up one level
- 7. Right click the Untitled bookmark
- 8. Select Delete
- 9. Open the Bookmarks panel by clicking the "Bookmarks" button in the Navigation Bar in the Navigation Pane.
- 10. Click the "New bookmark" button at the top of the panel to add a new, untitled bookmark to the panel.
- 11. Type a name for the new bookmark and press "Enter." The bookmark will be highlighted in the panel.

Bookmarks can also be added manually through two methods:

Method 1:

- 1. Navigate through the PDF to find the text you want to link to the bookmark.
- 2. When you have the size and location of the bookmark where you want, click the "Options" button in the toolbar at the top of the Bookmarks panel and then choose the "Set Bookmark Destination" command from the drop-down menu.
- 3. Click "Yes" in the pop-up message that appears to ask you to confirm the location for the bookmark to apply a bookmark to the page.

Method 2:

- 1. Choose the Selection Tool from the Common Tools toolbar.
- 2. Click and drag over the text that you want to bookmark to select it.
- 3. Click the "New Bookmark" button at the top of the Bookmarks panel.
- 4. A new bookmark appears in the Bookmarks panel, with the text you highlighted shown as the name of the bookmark. This feature is handy because it both names the bookmark and automatically links the bookmark to the highlighted text, saving you the step of setting the bookmark destination.

Checking the Accessibility

Once you feel you are done tagging the PDF, be sure to do a couple basic accessibility checks to ensure nothing was missed.

Accessibility Checker

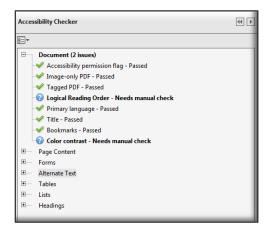
There is a built in accessibility checker in Acrobat. Although it does not guarantee a compliant document (even if it passes all checks), it does show basic errors. A fail for any of the checks means the document is probably not compliant.

Steps to Check:

- 1. Open the PDF.
- 2. Select View > Tools > Accessibility.
- 3. Select Full Check and keep the defaults.
- 4. Select Start Checking.
- 5. Expand any category denoted with issues.
- 6. Inspect the results.

Correct Example

There are no fails in the accessibility checker. Any issues flagged are ones that need manual checks:



Notes

- A clean report does not necessarily mean a compliant document, the tag structure must still be inspected manually.
- Most flagged errors are issues found in the tag tree. To further analyze the error, right click on the error and select Explain. An Acrobat help page will be displayed with an explanation and instructions to fix.

⊡— Alternate Text (1 issue)				
⊕ O Figures alternat ✓ Nested alternate	Fix			
	<u>S</u> kip Rule			
	<u>E</u> xplain			
✓ Other elements	<u>C</u> heck Again			
. E── Tables	Show <u>R</u> eport			
+- Headings (1 issue)				

• To find specific instances of the errors, expand and select the individual elements which usually highlights the element in the main view of the document when 'highlight content' is enabled.

- Alternate Tex	Alternate Text (1 issue)					
🗉 🔯 Figures alt	🖃 😳 Figures alternate text - Failed					
Figure 1						
	<u>F</u> ix					
	<u>S</u> kip Rule					
	<u>E</u> xplain					
	Show in Content Panel					
± Tables	Show in Tags Panel					

- If available, Show in Tags Panel and Show in Content Panel can take you directly to the element with the issue.
- Additional Resources:
 - <u>https://helpx.adobe.com/acrobat/using/create-verify-pdf-accessibility.html?trackingid=KACNN#check_accessibility_of_PDFs</u>

Saving as Text

Though text may look accurate visually, on the back end there may be typos or additional spacing that will cause screen readers to announce incorrect content. This can occur in any document, but is more common to occur when a program other than Office was used to construct the original document.

Steps to check:

- 1. Open the PDF.
- 2. Select File > Save as other > More Options > Text (Plain).
- 3. Select a save location.
- 4. Select Save.
- 5. Navigate to and open the text file in Word
- 6. Using built in tools for grammar and spell checking, look for typos or spacing issues
- 7. Compare results to the visual document.

Correcting mistakes

These kinds of text errors usually are introduced because of something in the source document. Ideally these issues should be diagnosed so they are not introduced in future documents. However, they can be addressed in the PDF:

- 1. In the tag panel, right click the tag containing the inaccurate text
- 2. Select Copy Contents to Clipboard

<u>N</u> ew Tag
Cu <u>t</u>
<u>D</u> elete Tag
Find Tag from Selection
Create Tag from Selection
<u>F</u> ind
<u>C</u> opy Contents to Clipboard

- 3. Right click the tag containing the inaccurate text
- 4. Select Properties
- 5. Paste into the Actual Text field
- 6. Correct the inaccurate text
- 7. Select Close

⊕_¶ <p></p>	Object Properties
□	Content Tag Color
⊕-¶ <p></p>	
⊞-¶ <p> ⊕-¶ <p></p></p>	Type: Heading Level 2
⊞-¶ <p></p>	Title:
⊞¶ <p> ⊞¶ <p></p></p>	Actual Text: Ensuring access to safe water

If there is a piece of inaccurate text in a long passage, suggest tagging the piece of text with a span tag and setting the Actual Text field of the Span tag appropriately (rather than pasting the entire passage into the Actual text field of the original tag)



Notes

- This issue will NOT be caught by the Acrobat Accessibility checker.
- Reading order issues will also be reflected in the text file.
- Alt text of images will be included in the document, so typos can be spotted there as well
- The initial save as the text file seems to replicate the closest experience as to what assistivetechnology users' experience, as such it is NOT recommended to save directly as a Word file in this evaluation.

Content Editing

It's important to ensure the document is in the final state for posting before beginning the tagging process. If minor changes are required, they can be made on the actual PDF to avoid having to update the source document, convert to a new PDF, and having to restart the tagging process.

These editing features can also be used if you are tagging a document you have not authored, and encounter issues such as conveying information with color, low contrast, and content needing an alternate accessible version.

Add/Modify Text

Text can be added or modified:

✓ Content Editing	_
Edit Text & Images	
T Add Text	
🔤 Add Image	_
Export File to	•
More Content	

- If adding new text, be sure to tag the new text and place it in the appropriate position in the tag tree
- If editing text, be sure to recheck the tag containing the original content to ensure the edited text is accurate

Color				l	23	Л	Format
Basic colors:					E	1	Calibri Light 👻
						Ш	12.96 • T <i>T</i> T
						H	
		-				H	$\Xi = \Xi = T^{1} T_{1}$
							B A G Q A G
							Edit Using 👻
						H	-
Custom colors:						H	🔽 Outline Text & Images
		Hue:	139	Red:	45		▶ Pages
		Sat:	144	Green:	116		Interactive Objects
Define Custom Colors >>	Color Solid	Lum:	106	Blue:	181		Forms
OK Cancel	A	dd to C	ustom (Colors			Action Wizard

• Editing text can also be used to adjust text color in cases of low contrast

Add/Modify Images

Images can be added, adjusted or deleted:

✓ Content Editing	
🛛 🔁 Edit Text & Imag	es
[T] Add Text	
Add Image	
Export File to	· ·

• If adding new image, be sure to tag the new image, give appropriate alt text, and place it in the appropriate position in the tag tree

Add/Modify Links

Hyperlinks can be edited or added to any part of the document (though recommend only linking actual text)

More Content
🖗 Add or Edit Link

- If adding a new link, the LINK-OBJR tag will need to be added and placed appropriately in the tag structure (as explained in the Links section of this document)
 - 1. From the tag structure, select the parent Link tag (should currently only contain the link text)
 - 2. At the top of the tags panel, select the menu icon
 - 3. Select Find

Tags
8=-
<u>N</u> ew Tag
Cu <u>t</u>
P <u>a</u> ste
Pa <u>s</u> te Child
<u>D</u> elete Tag
Find Tag from Selection
Create Tag from Selection
<u>F</u> ind
Chang <u>e</u> Tag to Artifact
<u>C</u> opy Contents to Clipboard

4. Select Unmarked Links from the dropdown

5. Select Find

Find Element	t
Find:	Artifacts
	Artifacts
Туре:	Unmarked Comments
	Unmarked Links
	Unmarked Annotations
	Unmarked Content
	OCR Suspects
F	ind Tag Element Close

- 6. The link without an Link-OBJR tag should highlight, if not, select Find Next until it does
- 7. Select Tag Element

	Find Element
http://www.yahoo.com	Find: Unmarked Links
	Type: Link

8. The Link-OBJR tag should now appear under the Link tag.

Add Pages from File

Additional pages can be added to the document through the following steps:

1. Select the page thumbnails icon



- 2. Select the page before or after where the new page will be inserted
- 3. Right click and select Insert Pages > From File

I <u>n</u> sert Pages	From <u>F</u> ile	Shift+Ctrl+I
E <u>x</u> tract Pages	From <u>C</u> lipboard	
<u>R</u> eplace Pages	A <u>B</u> lank Page	Shift+Ctrl+T

4. Configure the desired settings and select OK



Location: After		
Page		
First		
🔘 Last		
Page: 2 of 2		
ОК		

After added, any tags from the new file will be added to the bottom of the tag structure, be sure to place them in the appropriate position on the tag tree and/or tag the new content as needed.

Perform OCR on Scanned Document

A common method for making PDF documents is to place a paper copy of a document into a scanner and view the newly-scanned document as a PDF with Adobe Acrobat. Unfortunately, scanners only create an image of text, not the actual text itself. This means the content is not accessible to users who rely on assistive technology. Additional modifications must be made to make the document accessible.

How to determine if a PDF File is a Scanned Document

The Page Appears to be skewed

Sometimes sheets are not properly position into the scanner. The result is the page appears to be crooked, or skewed on the screen.

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Search for Characters that Appear on the Page

Use the find command in Acrobat to search for text that appears on the page. Select Edit > Find and type a term that appears on the page in the search field.

If the document was scanned, Acrobat will not find the search item but will display the message: "Acrobat has finished searching the document. No matches were found."

Performing Optical Character Recognition (OCR)

Activate View > Tools > Text Recognition > Choose In This File/In Multiple Files

AA In This File		
A In Multiple Files		
OCR Suspects		
Find First Suspect		
Find All Suspects		

Keep default settings and select OK. After completion, use the methods described in this document to ensure proper tagging.

Tips and Tricks

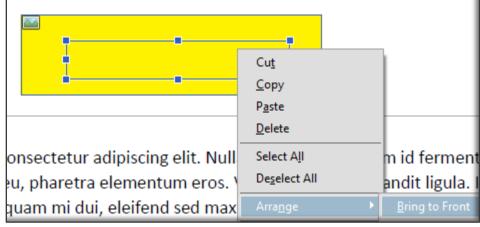
- 1. To get a full view of the tag structure, click on the plus sign while holding down Shift + Ctrl.
- 2. For large documents with complex content, you may have trouble tagging with the techniques discussed. In these cases, try isolating the page you are having trouble with as it can lead to a better tagging experience. To extract pages:
 - a. Select the desired page(s) from the Page thumbnails view
 - b. Right click and select Extract pages

I <u>n</u> sert Pages	۰.
E <u>x</u> tract Pages	
<u>R</u> eplace Pages	
Del <u>e</u> te Pages	Shift+Ctrl+D

- c. Select additional settings as desired and select OK
- d. After tagging the pages separately they can be merged back into the original document by deleting the original page and adding the new page from file.
- 3. If you are working on a PDF you have not authored and find a complex piece of content that needs an alternate version, suggest using the content editing methods to either:
 - a. Providing a link to an accessible version of content that already exists or;
 - b. Creating an alternate version in Word to be added at the end of the document and adding a link to that page next to the original
- 4. If you are working on a PDF you have not authored, tagging is proving difficult, and identical look and feel is not required. Try saving as a Word file, making adjustments to the Word file and reconverting back to PDF.

File Edit View Window Help		
Open Ctrl+O) 🖪 🍞
Create		
💾 Save Ctrl+S	-S al P	
Save <u>A</u> s Shift+Ctrl+S		
Save As Ot <u>h</u> er	Microsoft <u>W</u> ord	Word Document
Save <u>T</u> o Acrobat.com	Spreadsheet	Word <u>9</u> 7-2003 Document
Send File	Microsoft PowerPoint Presentation	
Read Descriments Signed	Image •	

- 5. Sometimes during tagging, text can 'disappear' if it is on top of an image. To remedy:
 - a. Use the Edit Text & Images feature
 - b. Find the outline of the text and select
 - c. Right click and select Arrange > Bring to Front



d. The hidden text should reappear



Additional Resources

- PDF techniques for WCAG 2.0
- Adobe accessibility help
- <u>HHS Making files accessible</u>
- <u>Webaim PDF Accessibility</u>