



California Open Online Library for Education & Accessibility

COOL4Ed (the California Open Online Library for Education) was created so that faculty can easily find, adopt, utilize, review and/or modify free and open etextbooks for little or no cost. The COOL4Ed accessibility open textbook evaluations can inform faculty, staff, and students how the free and open etextbooks meet 15 accessibility “checkpoints” that could impact the learning of learners with a range of disabilities.

SUMMARY OF ACCESSIBILITY EVALUATION:

Textbook: Financial Accounting

Format of Textbook: PDF

Assistive Technology (AT) Evaluation Score: Overall	5.0 (Maximum score = 10)
<p>Assistive Technologies (AT) Evaluations applies specialized tools and software in the accessibility evaluation process. These specialized assistive technologies, see list below, are typically not used or available by the general public into the accessibility evaluation process.</p> <ul style="list-style-type: none"> • Accessibility features of desktop operating systems (e.g. high-contrast display themes, settings from the Keyboard and Mouse control panels) • Accessibility-related software included with desktop operating systems (e.g. VoiceOver, Microsoft Narrator) • Third-party accessibility software and hardware: • Screen readers (e.g. JAWS, Window Eyes) • Magnification software (e.g. ZoomText Magnifier/Reader, MAGIC Pro with Speech) • Reading software for users with learning disabilities (e.g. Read and Write Gold, Kurzweil 3000) • Refreshable Braille displays 	
Non- Assistive Technology (NAT) Evaluation Score: Overall	5.4 (Maximum score =10)
<p>Non-Assistive Technologies (NAT) Evaluations applies only native or basic tools and software such as the keyboard and Narrator in the accessibility evaluation process. These non-assistive technologies are readily available and used by the general public.</p>	



COOL4Ed Accessibility Evaluation Methods:

The California State University [Accessible Technology Initiative](#) and [MERLOT](#) (Multimedia Educational Resources for Learning and Online Teaching) developed the rubric or “checkpoints” for the accessibility evaluation. [CAST](#), a nationally recognized organization with expertise in accessibility and UDL, reviewed and affirmed the appropriateness and value of the accessibility evaluation rubric and contributed the references and support resources to help people learn how best to design, evaluate, and remediate the learning materials to maximize the accessibility of the learning resources for all. The “checkpoints” have been built upon the Section 508 technical standards and has been organized and tailored to the typical characteristics of digital resources used in higher education courses.

The accessibility evaluations were performed by the [Center for Usability in Design and Accessibility](#) at California State University, Long Beach; faculty and graduate students with expertise in human factors, usability, and accessibility performed the evaluations of over 150 free and open etextbooks. COOL4ed.org has published the accessibility evaluation rubric and provides a detailed description of the methodology used to evaluate the accessibility of the etextbooks in COOL4ed.

LOOKING FOR DETAILED ACCESSIBILITY REPORTS?

[See Detailed Accessibility Evaluation Report using Assistive Technologies](#)

[See Detailed Accessibility Evaluation Report using Non-Assistive Technologies](#)



DETAILED ACCESSIBILITY EVALUATION REPORT using Assistive Technologies

Assistive Technologies (AT) Evaluations applies specialized tools and software in the accessibility evaluation process. These specialized assistive technologies, such as Kurzweil and NVDA, are typically not used or available by the general public into the accessibility evaluation process.

1. Accessibility Documentation

A. The organization providing the online materials has a formal accessibility policy.	Fail
Additional Information:	Did not find any information about Saylor.org's formal accessibility policy.
B. The organization providing the online materials has an accessibility statement.	Fail
Additional Information:	Did not find any information about Saylor.org's accessibility statement.
C. An Accessibility Evaluation Report is available from an external organization.	Fail
Additional Information:	Did not find any information about Saylor.org's accessibility evaluation report.

2. Text Access

A. The text of the digital resource is available to assistive technology that allows the user to enable text-to-speech (TTS) functionality.	Pass
Additional Information:	Pg. 15, 26, 87, 96, 670. Normal text was read aloud by the NVDA program without skipping any words or sentences, however there were problems with reading figures, headings, lists, and tables. Figures were not read aloud, they were just skipped over (pg. 15, Fig 1.1; pg. 87, Fig. 3.6) and the figure took up about a third of the page. Headings in the blue "End of Chapter Exercises" sections were not read properly. Headings such as PROBLEMS or TRUE OR FALSE would be read out as the individual letters that made up the words and blank spaces would not



	<p>be read as answer spaces (pg. 26, 670). They would just be skipped over. Lists were not labeled as lists and found as lists by the NVDA reader. However, the components of the lists were able to be read item by item by using the list item hotkey (pg. 87). The NVDA reader was still able to read the words in the table cell by cell, it was just un navigable with the hotkeys. Tables were not labeled as tables and were not able to navigate through the table through cells, you were only able to navigate through the table up and down (p. 96).</p>
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3. Text Adjustment

<p>A. Text is compatible with assistive technology.</p>	<p>Fail</p>
<p>Additional Information:</p>	<p>Pg. 15, 26, 87, 96, 670. The text was able to zoom in and out, however, the textbook was zoomed in and out altogether without adjusting the amount of content you could see on the page. Since the whole textbook zoomed in and out without adjusting how the content was laid out, this cause horizontal scrolling to occur.</p>
<p>B. The resource allows the user to adjust the font size and font/background color (or is rendered by an application such as a browser, media player, or reader) that offers this functionality).</p>	<p>Fail</p>
<p>Additional Information:</p>	<p>Pg. 15, 26, 87, 96, 670. When I changed the color of the text and the background so that the background would be black and the text would be green in the Adobe Acrobat Reader DC program, the whole textbook turned black and I was not able to read anything.</p>

4. Reading Layout

<p>A. Text of the digital resource is compatible with assistive technology that allows the user to reflow the text by specifying the margins and</p>	<p>Fail</p>
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<p>line spacing (or is rendered by an application such as a browser, media player, or reader that offers this functionality).</p>	
<p>Additional Information:</p>	<p>Pg. 15, 26, 87, 96, 670. The text was able to zoom in and out, however, the textbook was zoomed in and out altogether without adjusting the amount of content you could see on the page. Since the whole textbook zoomed in and out without adjusting how the content was laid out, this cause horizontal scrolling to occur. The text reflowed properly, however I had to scroll through the text horizontally in order to get to the beginning of each line once the previous line ended.</p>
<p>B. If the digital resource is an electronic alternative to printed materials, the page numbers correspond to the printed material.</p>	<p>N/A</p>
<p>Additional Information:</p>	

5. Reading Order

<p>A. The reading order for digital resource content logically corresponds to the visual layout of the page when rendered by assistive technology.</p>	<p>Pass</p>
<p>Additional Information:</p>	<p>Pg. 15, 26, 87, 96, 670. Normal text was read aloud by the NVDA program without skipping any words or sentences, however there were problems with reading figures, headings, lists, and tables. Figures were not read aloud, they were just skipped over (pg. 15, Fig 1.1; pg. 87, Fig. 3.6) and the figure took up about a third of the page. Headings in the blue "End of Chapter Exercises" sections were not read properly. Headings such as PROBLEMS or TRUE OR FALSE would be read out as the individual letters that made up the words and blank spaces would not be read as answer spaces (pg. 26, 670). They would just be skipped over. Lists were not labeled as lists and found as lists by the NVDA reader. However, the components of the lists were able to be read item by</p>



	<p>item by using the list item hotkey (pg. 87). The NVDA reader was still able to read the words in the table cell by cell, it was just un navigable with the hotkeys. Tables were not labeled as tables and were not able to navigate through the table through cells, you were only able to navigate through the table up and down (p. 96).</p>
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6. Structural Markup/Navigation

<p>A. The text of the digital resource includes markup (e.g. tags or styles) that allows for navigation by key structural elements (chapters, headings, pages) using assistive technology (or is rendered by an application such as a browser, media player, or reader that offers this functionality).</p>	<p>Fail</p>
<p>Additional Information:</p>	<p>Pg. 2-10, 150-160, 660-670. I was unable to navigate through the headings of the entire textbook. I was only able to navigate through the headings that were on the current page, and even then there was still some problems with navigating through it since some of the headings were not read in a logical way that a person could understand. Headings in the blue "End of Chapter Exercises" sections were not read properly. Headings such as PROBLEMS or TRUE OR FALSE would be read out as the individual letters that made up the words and blank spaces would not be read as answer spaces (pg. 670). They would just be skipped over. I was only able to navigate through the heading of the current page instead of being able to navigate through the whole book's headings.</p>
<p>B. The text of the digital resource includes markup for bullets and numbered lists that is compatible with assistive technology (or is rendered by an application such as a browser, media player, or reader that offers this functionality).</p>	<p>Fail</p>



Additional Information:	<p>0/10 lists were properly navigable while using the NVDA program hotkeys (pg. 3, 4, 6, 8, 9, 10, 13, 20, 22, 23). The lists were not labeled as lists so I was not able to navigate to each list in the textbook. However, I was able to navigate to the lists by navigating through items. One list was also skipped when read aloud (pg. 4).</p>
<p>C. If the text of the digital resource is delivered within an ebook reader application, a method is provided that allows users to bypass the reader interface and move directly to the text content that is compatible with assistive technology.</p>	<p>N/A</p>
Additional Information:	

7. Tables

<p>A. Data tables include markup (e.g. tags or styles) that identifies row and column headers in a manner that is compatible with assistive technology (or are rendered by an application such as a browser, media player, or reader that offers this functionality).</p>	<p>Fail</p>
Additional Information:	<p>0/10 tables were properly navigable using the NVDA assistive program (pg. 15, 66, 94, 95, 96(4), 97(2)). 3 figures were actually tables, however they were not labeled as tables and were also skipped when read aloud. There was also no caption describing these figures, therefore you were not able to know that the figures actually held tables (Pg. 15, fig. 1.1; pg. 66, Fig.3.1; pg. 94) The rest of the tables were navigable as tables, however you were not able to navigate through the cells in different directions. You were only able to navigate through the cells by using the up and down keys.</p>



8. Hyperlinks

<p>A. In-book links take you to a location within the textbook. For example, the table of contents would be considered in-book links and embedded links take you to the correct location in the book.</p>	<p>Fail</p>
<p>Additional Information:</p>	<p>0/30 hyperlinks worked within the book (pg. 7, 10, 13, 14(2), 15, 63(2), 69(3), 83, 87, 90(4), 117(2), 209, 211(2), 314(2), 402(4), 565). The 30 hyperlinks that I found all looked like links that would take you to a specific place in the book, however, they were actually links that did not work and brought you nowhere.</p>
<p>B. Live hyperlinks take you to any website or webpages external to the book.</p>	<p>Pass</p>
<p>Additional Information:</p>	<p>20/20 hyperlinks that were live on the internet worked (pg. 9, 11, 12, 14, 17, 19, 21, 24, 35, 41, 47(2), 64, 68, 69, 72, 74, 75, 78, 79). However of those 20, only 6 actually brought you to a website that you could access (pg. 12, 19, 24, 47(2), 69). The rest of the 20 brought you to live links on the internet that the user would have to have an account to access.</p>
<p>C. Live links take you to the correct webpage that is functioning properly.</p>	<p>Pass</p>
<p>Additional Information:</p>	<p>20/20 hyperlinks that were live on the internet worked (pg. 9, 11, 12, 14, 17, 19, 21, 24, 35, 41, 47(2), 64, 68, 69, 72, 74, 75, 78, 79). However of those 20, only 6 actually brought you to a website that you could access (pg. 12, 19, 24, 47(2), 69). The rest of the 20 brought you to live links on the internet that the user would have to have an account to access.</p>
<p>D. Live links are descriptive enough for the users to know where it should take them.</p>	<p>Fail</p>
<p>Additional Information:</p>	<p>0/20 hyperlinks were properly described as the location of the links (pg. 9, 11, 12, 14, 17, 19, 21, 24, 35, 41, 47(2), 64, 68, 69, 72, 74, 75, 78, 79). Instead</p>



	they were labeled as the URL's with descriptions of where they would go next to them.
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9. Color and Contrast

A. All information within the material that is conveyed using color is also available in a manner that is compatible with those that do not perceive color, and information conveyed by color is also conveyed in other ways.	Pass
Additional Information:	Pg. 2-10, 150-160, 660-670. Headings were easily distinguishable in black/dark blue and in bold. Links that were live on the internet were consistently blue. Links that look as though they are links to specific places within the book were also in the same type of blue as the links that lead to live internet websites.
B. Information is conveyed from the sub-categories for contrast.	Pass
Additional Information:	Pg. 2-10, 150-160, 660-670. Headings and regular text passed the color contrast analysis because the text was in black or dark blue and the color of the background was white. However, sections that were sectioned off by colored blocks that were blue or green did not pass the color contrast analysis because of the links. The links within these colored sections did not pass the contrast analysis because they were in blue font, but the regular text within these areas still passed because they were in black.
C. Contrast for headers passed WCAG AA standards for large texts (contrast ratio 3:1).	Pass
Additional Information:	Pg. 2-10, 150-160, 660-670. Headings passed the color contrast analysis because the text was in black or dark blue and the color of the background was white.
D. Contrast for text passed WCAG AA standards for normal texts (contrast ratio of 4.5:1).	Pass
Additional Information:	Pg. 2-10, 150-160, 660-670. Regular text passed the color contrast analysis because the text was in black



	or dark blue and the color of the background was white.
E. Contrast for simple images (for example, images of atoms) passed WCAG AA standards (contrast ratio of 4.5:1).	N/A
Additional Information:	

10. Language

A. The text of the digital resource includes markup that declares the language of the content in a manner that is compatible with assistive technology.	N/A
Additional Information:	
B. If the digital resource includes passages in a foreign language, these passages include markup that declares the language in a manner that is compatible with assistive technology.	N/A
Additional Information:	

11. Images

A. Non-decorative images have alternative text that is compatible with assistive technology (or is rendered by an application such as a browser, media player, or reader that offers this functionality).	N/A
Additional Information:	
B. Decorative images are marked with null alternate text or contain markup that allows them to be ignored by assistive technology.	N/A
Additional Information:	
C. Complex images, charts, and graphs have longer text descriptions that are compatible with assistive technology (or are rendered by	N/A



an application such as a browser, media player, or reader) that offers this functionality).	
Additional Information:	

12. Multimedia

A. A synchronized text track (e.g. open or closed captions) is provided with all video content.	N/A
Additional Information:	
B. A transcript is provided with all audio content.	N/A
Additional Information:	
C. Audio/video content is delivered via a media player that is compatible with assistive technology. This includes support for all criteria listed in Section 15 below.	N/A
Additional Information:	

13. Flickering

A. The digital resource content does not contain anything that flashes more than three times in any one-second period.	Pass
Additional Information:	No flickering content

14. Science, Technology, Engineering, and Math (STEM)

A. STEM figures have appropriate markup that indicates that the image is a figure.	Pass
Additional Information:	10/10 figures were marked up properly as figures (pg. 15, 66, 77, 78, 79, 84, 101, 114, 120(2)).
B. STEM graphs have appropriate markup that indicates that the image is a graph.	N/A
Additional Information:	



C. STEM equations have appropriate markup that indicates that the image is an equation.	N/A
Additional Information:	
D. STEM tables have appropriate markup that indicates the image is a table.	Fail
Additional Information:	0/10 tables were properly marked up as tables (pg. 15, 66, 94, 96,(4), 97(2)). These tables were not properly marked as tables within the book, however you were able to navigate to them using the NVDA hotkeys. You could not navigate through the cells of the tables in any other directions besides up or down as well.
E. STEM figures have appropriate notation markup that conveys both the notation (presentation) and meaning (semantics) of the STEM content.	Fail
Additional Information:	0/10 figures were read aloud by the NVDA assistive program. They were all skipped (pg. 15, 66, 77, 78, 79, 84, 101, 114, 120(2)).
F. STEM graphs have appropriate notation markup that conveys both the notation (presentation) and meaning (semantics) of the STEM content.	N/A
Additional Information:	
G. STEM equations have appropriate notation markup that conveys both the notation (presentation) and meaning (semantics) of the STEM content.	N/A
Additional Information:	
H. Assistive technology used can access the content from the STEM tables.	Fail
Additional Information:	0/10 tables were properly read aloud by the NVDA assistive program. The tables were read cell by cell, but you were not able to read through it in different directions. You were only able to navigate through the cells using the up and down directional keys.



15. Interactive Elements

A. Each interactive element (e.g. menu, hyperlink, button) and function (e.g. annotations) allows keyboard-only operation both with and without assistive technology.	N/A
Additional Information:	
B. Each interactive element conveys information to assistive technology regarding the element's name, type, and status (e.g. "Play, button, selected").	N/A
Additional Information:	
C. All instructions, prompts, and error messages necessary to complete forms are conveyed as text to assistive technology (or are rendered by an application such as a browser, media player, or reader that offers this functionality).	N/A
Additional Information:	



DETAILED ACCESSIBILITY EVALUATION REPORT using Non-Assistive Technologies

Non-Assistive Technologies (NAT) Evaluations applies only native or basic tools and software such as the keyboard and Narrator in the accessibility evaluation process. These non-assistive technologies are readily available and used by the general public.

1. Accessibility Documentation

A. The organization providing the online materials has a formal accessibility policy.	Fail
Additional Information:	No content found
B. The organization providing the online materials has an accessibility statement.	Fail
Additional Information:	No content found
C. An Accessibility Evaluation Report is available from an external organization.	Fail
Additional Information:	No content found

2. Text Access

A. The text of the digital resource is available to assistive technology that allows the user to enable text-to-speech (TTS) functionality.	Pass
Additional Information:	Pg. 1-5

3. Text Adjustment

A. Text is compatible with assistive technology.	Pass
Additional Information:	Pg. 1-5, all text is adjustable.
B. The resource allows the user to adjust the font size and font/background color (or is rendered by an application such as a browser, media player, or reader) that offers this functionality).	Fail



Additional Information:	Pg. 1-5, pages appear all black and when scrolling to next page the text appears for a split second but is gray not green.
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4. Reading Layout

A. Text of the digital resource is compatible with assistive technology that allows the user to reflow the text by specifying the margins and line spacing (or is rendered by an application such as a browser, media player, or reader that offers this functionality).	Fail
Additional Information:	Pg. 1-5, text does not reflow at all.
B. If the digital resource is an electronic alternative to printed materials, the page numbers correspond to the printed material.	N/A
Additional Information:	No printed material

5. Reading Order

A. The reading order for digital resource content logically corresponds to the visual layout of the page when rendered by assistive technology.	Pass
Additional Information:	Pg. 11, 12, 13, 26, 27 (mispronounces some "colored" headers).

6. Structural Markup/Navigation

A. The text of the digital resource includes markup (e.g. tags or styles) that allows for navigation by key structural elements (chapters, headings, pages) using assistive technology (or is rendered by an application such as a browser, media player, or reader that offers this functionality).	Fail
Additional Information:	No structural markup



<p>B. The text of the digital resource includes markup for bullets and numbered lists that is compatible with assistive technology (or is rendered by an application such as a browser, media player, or reader that offers this functionality).</p>	<p>Fail</p>
<p>Additional Information:</p>	<p>No structural markup</p>
<p>C. If the text of the digital resource is delivered within an ebook reader application, a method is provided that allows users to bypass the reader interface and move directly to the text content that is compatible with assistive technology.</p>	<p>Fail</p>
<p>Additional Information:</p>	<p>No structural markup</p>

7. Tables

<p>A. Data tables include markup (e.g. tags or styles) that identifies row and column headers in a manner that is compatible with assistive technology (or are rendered by an application such as a browser, media player, or reader that offers this functionality).</p>	<p>Fail</p>
<p>Additional Information:</p>	<p>Accessibility Checker: Rows, TH and TD, Headers, Regularity all fail, summary skipped, Manual Check: pg. 95-96 Read Out Loud will read the text in the table from left to right, but it is not sensible.</p>

8. Hyperlinks

<p>A. In-book links take you to a location within the textbook. For example, the table of contents would be considered in-book links and embedded links take you to the correct location in the book.</p>	<p>N/A</p>
<p>Additional Information:</p>	<p>No within book links found.</p>



B. Live hyperlinks take you to any website or webpages external to the book.	Pass
Additional Information:	Links work but need descriptive text.
C. Live links take you to the correct webpage that is functioning properly.	Pass
Additional Information:	Pg. 1, 9, 11, 12, 14, 17, 19, 21, 24, 304, 306, 307, 312, 317, 318, 326, 332, 334, 336, 699, 704, 712, 717.
D. Live links are descriptive enough for the users to know where it should take them.	Fail
Additional Information:	Screen reader just reads the URL (no meaningful text) - pg. 1, 9, 11, 12, 14, 17, 19, 21, 24, 304, 306, 307, 312, 317, 318, 326, 332, 334, 336, 699, 704, 712, 717.

9. Color and Contrast

A. All information within the material that is conveyed using color is also available in a manner that is compatible with those that do not perceive color, and information conveyed by color is also conveyed in other ways.	Pass
Additional Information:	Pg. 400-438
B. Information is conveyed from the sub-categories for contrast.	Pass
Additional Information:	All headers pass and some text fails.
C. Contrast for headers passed WCAG AA standards for large texts (contrast ratio 3:1).	Pass
Additional Information:	All headers pass pg 400-438.
D. Contrast for text passed WCAG AA standards for normal texts (contrast ratio of 4.5:1).	Pass
Additional Information:	Pg. 402, 411 have some light blue text that fails - pg 417, 419, 423, 425, 429, 431, 432, 436 have links on light blue bg which fails - pg 417, 418, 430 have brown text that fails.



E. Contrast for simple images (for example, images of atoms) passed WCAG AA standards (contrast ratio of 4.5:1).	N/A
Additional Information:	No simple images on pg. 400-438.

10. Language

A. The text of the digital resource includes markup that declares the language of the content in a manner that is compatible with assistive technology.	Pass
Additional Information:	Language markup found.
B. If the digital resource includes passages in a foreign language, these passages include markup that declares the language in a manner that is compatible with assistive technology.	N/A
Additional Information:	No foreign languages.

11. Images

A. Non-decorative images have alternative text that is compatible with assistive technology (or is rendered by an application such as a browser, media player, or reader that offers this functionality).	Fail
Additional Information:	All non-decorative images fail pg. 418 (2), 446 (2), 463 (2), 464, 466, 468, 469 (2).
B. Decorative images are marked with null alternate text or contain markup that allows them to be ignored by assistive technology.	N/A
Additional Information:	No decorative images.
C. Complex images, charts, and graphs have longer text descriptions that are compatible with assistive technology (or are rendered by an application such as a browser, media	Fail



player, or reader) that offers this functionality).	
Additional Information:	All complex images fail pg. 411 (2), 412, 425, 430, 442, 443, 446 (1), 447 (2).

12. Multimedia

A. A synchronized text track (e.g. open or closed captions) is provided with all video content.	N/A
Additional Information:	No multimedia
B. A transcript is provided with all audio content.	N/A
Additional Information:	No multimedia
C. Audio/video content is delivered via a media player that is compatible with assistive technology. This includes support for all criteria listed in Section 15 below.	N/A
Additional Information:	No multimedia

13. Flickering

A. The digital resource content does not contain anything that flashes more than three times in any one-second period.	Pass
Additional Information:	No flickering content

14. Science, Technology, Engineering, and Math (STEM)

A. STEM figures have appropriate markup that indicates that the image is a figure.	N/A
Additional Information:	No STEM content
B. STEM graphs have appropriate markup that indicates that the image is a graph.	N/A
Additional Information:	No STEM content
C. STEM equations have appropriate markup that indicates that the image is an equation.	N/A



Additional Information:	No STEM content
D. STEM tables have appropriate markup that indicates the image is a table.	N/A
Additional Information:	
E. STEM figures have appropriate notation markup that conveys both the notation (presentation) and meaning (semantics) of the STEM content.	N/A
Additional Information:	No STEM content
F. STEM graphs have appropriate notation markup that conveys both the notation (presentation) and meaning (semantics) of the STEM content.	N/A
Additional Information:	No STEM content
G. STEM equations have appropriate notation markup that conveys both the notation (presentation) and meaning (semantics) of the STEM content.	N/A
Additional Information:	No STEM content
H. Assistive technology used can access the content from the STEM tables.	N/A
Additional Information:	

15. Interactive Elements

A. Each interactive element (e.g. menu, hyperlink, button) and function (e.g. annotations) allows keyboard-only operation both with and without assistive technology.	N/A
Additional Information:	No interactive elements
B. Each interactive element conveys information to assistive technology regarding the element's name, type, and status (e.g. "Play, button, selected").	N/A
Additional Information:	No interactive elements



C. All instructions, prompts, and error messages necessary to complete forms are conveyed as text to assistive technology (or are rendered by an application such as a browser, media player, or reader that offers this functionality).	N/A
Additional Information:	No interactive elements

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