



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: A Textbook of the History of Painting
Format of Textbook: HTML

Assistive Technology (AT) Evaluation Score: Overall	3.4 (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	4.3 (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:	There were no links provided for additional information regarding the formal accessibility policy. The program used to analyze text content was NVDA which is an open source screen reader for Windows. Google chrome was used to access the book online.
B. The organization providing the online materials has an accessibility statement.	Fail
Additional Information:	There were no links provided for additional information regarding the accessibility statement. The program used to analyze text content was NVDA which is an open source screen reader for Windows. Google chrome was used to access the book online.
C. An Accessibility Evaluation Report is available from an external organization.	Fail
Additional Information:	There were no links provided for additional information regarding accessibility. The program used to analyze text content was NVDA which is an open source screen reader for Windows. Google chrome was used to access the book online.

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.	Fail
Additional Information:	0/3 chapters were analyzed and passed. Chapters 1 through 3 were used for this analysis. The text of the



	<p>digital resource is not available to assistive technology that allows the user to enable text-to-speech(TTS) functionality. The program used to analyze text content was NVDA which is an open source screen reader for Windows. Google chrome was used to access the book online.</p>
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3. Text Adjustment

<p>A. Text is compatible with assistive technology.</p>	<p>Pass</p>
<p>Additional Information:</p>	<p>3/3 chapters were analyzed and passed text size compatibility. Chapters 1 through 3 were used for this analysis. The text content of the chapter allowed for adequate text size adjustment between the ranges of 30% to 300% zoom when viewing single pages one at a time. The program used to analyze text content was NVDA which is an open source screen reader for Windows. Google chrome was used to access the book online.</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>0/3 chapters were analyzed and passed. Chapters 1 through 3 were analyzed and did not allow for adequate adjustment of the font/background color of the text. The tool used to analyze this component was the Google extension "Care your Eyes." Google chrome was used to access the book online.</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 line spacing (or is rendered by an application</p>	<p>Pass</p>
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<p>such as a browser, media player, or reader that offers this functionality).</p>	
<p>Additional Information:</p>	<p>30/30 web pages were analyzed and passed. Content was taken from chapters 1 through 4. All of the web pages analyzed allowed for adequate text reflow between 30% and 300% zoom levels. Horizontal scrolling was not required. The chapters analyzed were viewed as single pages rather than multiple pages or traditional dual page views. Results may vary depending on screen size. Text reflow was analyzed using a standard Toshiba laptop with a 16 inch screen size. Google chrome was used to access the book online.</p>
<p>B. If the digital resource is an electronic alternative to printed materials, the page numbers correspond to the printed material.</p>	<p>Pass</p>
<p>Additional Information:</p>	<p>30/30 web pages were analyzed and passed for matching page number content in the PDF version. Chapters 1 through 4 were used for this analysis. The HTML version of the book has page numbers corresponding to the PDF version. The content covered in each chapter and section is the same in both the HTML and PDF versions. The program used to analyze text content was NVDA which is an open source screen reader for Windows. Google chrome was used to access the book online.</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>Fail</p>
<p>Additional Information:</p>	<p>0/5 pages were analyzed and passed for digital resource layout. Chapter 1 was used for this analysis. The reading order for digital resource content could not be determined to logically correspond to the visual layout of the page when rendered by assistive technology due to the fact that the reader could not</p>



	<p>access the text content. The program used to analyze the digital resource layout was NVDA which is an open source screen reader for Windows. Google chrome was used to access the book online.</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>0/3 chapters were analyzed and passed markup for navigational text. Chapters 1 through 3 were used to analyze navigational text. The text of the digital resource did not include markup that allowed for navigation by heading levels using assistive technology due to the fact that the reader could not access the content. All level headings were black text on a white background. The program used to analyze navigational text was NVDA which is an open source screen reader for Windows. Google chrome was used to access the book online.</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>N/A</p>
<p>Additional Information:</p>	<p>0/0 lists were analyzed and passed for structural markup of lists. Chapters 1 through 20 were used to analyze lists. There were no lists located within the text to test that the text of the digital resource included markup for bullets and numbered lists that was compatible with assistive technology. The program used to analyze text content was NVDA</p>



	which is an open source screen reader for Windows. Google chrome was used to access the book online.
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.	N/A
Additional Information:	0/0 text content analyzed for structural markup for eReader application. No additional eReader application being used in this evaluation. The program used to analyze text content was NVDA which is an open source screen reader for Windows. Google chrome was used to access the book online.

7. Tables

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).	N/A
Additional Information:	0/0 tables were analyzed and passed markup. Chapters 1 through 20 were used for this analysis. There were no tables located within the text to test that data tables included markup that identified row and column headers in a manner that was compatible with assistive technology. The program used to analyze text content was NVDA which is an open source screen reader for Windows. Google chrome was used to access the book online.

8. Hyperlinks

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	N/A
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embedded links take you to the correct location in the book.	
Additional Information:	The within book links are included in the live links analysis for HTML formats.
B. Live hyperlinks take you to any website or webpages external to the book.	N/A
Additional Information:	0/0 links were analyzed and passed. This is a combined average of the following two subsections of the links description and functionality. The program used to analyze text content was NVDA which is an open source screen reader for Windows. Google chrome was used to access the book online.
C. Live links take you to the correct webpage that is functioning properly.	N/A
Additional Information:	0/0 links were analyzed and passed for functionality. There were no links located within chapters 1 through 20 to determine if The links took you to the correct location. The program used to analyze text content was NVDA which is an open source screen reader for Windows. Google chrome was used to access the book online.
D. Live links are descriptive enough for the users to know where it should take them.	N/A
Additional Information:	0/0 links were analyzed and passed for link description. There were no links found in chapters 1 through 20 to determine if there was adequate descriptions of the links that aided in determining where they would take you. The program used to analyze text content was NVDA which is an open source screen reader for Windows. Google chrome was used to access the book online.

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	N/A
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<p>not perceive color, and information conveyed by color is also conveyed in other ways.</p>	
<p>Additional Information:</p>	<p>0/0 chapters were analyzed and passed for color redundancy. Chapter 1 through 3 were analyzed. The text content was not color redundant in that there was no information that required providing adequate means of distinguishing the content aside from color. The program used to analyze text content was NVDA which is an open source screen reader for Windows. Google chrome was used to access the book online.</p>
<p>B. Information is conveyed from the sub-categories for contrast.</p>	<p>Pass</p>
<p>Additional Information:</p>	<p>This is an average score taken from the combined sub sections of the color and contrast field. The content was analyzed using the color contrast analyzer tool. Google chrome was used to access the book online.</p>
<p>C. Contrast for headers passed WCAG AA standards for large texts (contrast ratio 3:1).</p>	<p>Pass</p>
<p>Additional Information:</p>	<p>3/3 chapters were analyzed and passed for adequate header color contrast. Chapters 1 through 3 were used for analysis. All heading levels were black text on a white background. The content was analyzed using the color contrast analyzer tool. Google chrome was used to access the book online.</p>
<p>D. Contrast for text passed WCAG AA standards for normal texts (contrast ratio of 4.5:1).</p>	<p>Fail</p>
<p>Additional Information:</p>	<p>0/3 chapters were analyzed and passed for adequate text color contrast. Chapters 1 through 3 were used for analysis. Half of the text samples from each chapter failed due to the contrast being inadequate; the black text was too light with a ratio between 2.03:1 to 3.36:1. All standard text samplings were of black text on a white background. The content was analyzed using the color contrast analyzer tool. Google chrome was used to access the book online.</p>



<p>E. Contrast for simple images (for example, images of atoms) passed WCAG AA standards (contrast ratio of 4.5:1).</p>	<p>N/A</p>
<p>Additional Information:</p>	<p>0/0 chapters with simple images were analyzed and passed color contrast. There were no simple images found in chapters 1 through 3. The content was analyzed using the color contrast analyzer tool. Google chrome was used to access the book online.</p>

10. Language

<p>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.</p>	<p>Fail</p>
<p>Additional Information:</p>	<p>The text of the digital resource did not include markup that declares the language of the content in a manner that is compatible with assistive technology due to the fact that the reader could not access the content. The program used to analyze text content was NVDA which is an open source screen reader for Windows. Google chrome was used to access the book online.</p>
<p>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.</p>	<p>N/A</p>
<p>Additional Information:</p>	<p>There were no portions of the text content that contained foreign languages to determine if it included markup that declares the language in a manner that is compatible with assistive technology; the reader could not access the content. The program used to analyze text content was NVDA which is an open source screen reader for Windows. Google chrome was used to access the book online.</p>



11.Images

<p>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).</p>	<p>Fail</p>
<p>Additional Information:</p>	<p>0/0 chapters with non-decorative images were analyzed and passed. Chapters 1 through 3 were used for this analysis. 0/17 non-decorative images passed. No alternate text descriptions are provided for each non-decorative image that are compatible with assistive technology due to the fact that the reader could not access the content. The program used to analyze text content was NVDA which is an open source screen reader for Windows. Google chrome was used to access the book online.</p>
<p>B. Decorative images are marked with null alternate text or contain markup that allows them to be ignored by assistive technology.</p>	<p>N/A</p>
<p>Additional Information:</p>	<p>0/0 chapters with decorative images were analyzed and passed. There were no decorative images located within chapters 1 through 3 to determine if the images are marked with null alternate text or contain markup that allows them to be ignored by assistive technology. The program used to analyze text content was NVDA which is an open source screen reader for Windows. Google chrome was used to access the book online.</p>
<p>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 player, or reader) that offers this functionality).</p>	<p>N/A</p>
<p>Additional Information:</p>	<p>0/0 chapters with complex images were analyzed and passed. There were no complex images found within chapters 1 through 3. The program used to analyze text content was NVDA which is an open</p>



	source screen reader for Windows. Google chrome was used to access the book online.
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12. Multimedia

A. A synchronized text track (e.g. open or closed captions) is provided with all video content.	N/A
Additional Information:	0/0 Multimedia content was analyzed and passed. No multimedia content was located within the text. The program used to analyze text content was NVDA which is an open source screen reader for Windows. Google chrome was used to access the book online.
B. A transcript is provided with all audio content.	N/A
Additional Information:	0/0 Multimedia content was analyzed and passed. No multimedia content was located within the text. The program used to analyze text content was NVDA which is an open source screen reader for Windows. Google chrome was used to access the book online.
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:	0/0 Multimedia content was analyzed and passed. No multimedia content was located within the text. The program used to analyze text content was NVDA which is an open source screen reader for Windows. Google chrome was used to access the book online.

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:	While analyzing book material there was no flickering on any of the pages. The program used to analyze text content was NVDA which is an open



	source screen reader for Windows. Google chrome was used to access the book online.
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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:	0/0 STEM content were analyzed and passed. No Stem content was located within the text. The program used to analyze text content was NVDA which is an open source screen reader for Windows. Google chrome was used to access the book online.
B. STEM graphs have appropriate markup that indicates that the image is a graph.	N/A
Additional Information:	0/0 STEM content were analyzed and passed. No Stem content was located within the text. The program used to analyze text content was NVDA which is an open source screen reader for Windows. Google chrome was used to access the book online.
C. STEM equations have appropriate markup that indicates that the image is an equation.	N/A
Additional Information:	0/0 STEM content were analyzed and passed. No Stem content was located within the text. The program used to analyze text content was NVDA which is an open source screen reader for Windows. Google chrome was used to access the book online.
D. STEM tables have appropriate markup that indicates the image is a table.	N/A
Additional Information:	0/0 STEM content were analyzed and passed. No Stem content was located within the text. The program used to analyze text content was NVDA which is an open source screen reader for Windows. Google chrome was used to access the book online.
E. STEM figures have appropriate notation markup that conveys both the notation (presentation) and meaning (semantics) of the STEM content.	N/A



Additional Information:	0/0 STEM content were analyzed and passed. No Stem content was located within the text. The program used to analyze text content was NVDA which is an open source screen reader for Windows. Google chrome was used to access the book online.
F. STEM graphs have appropriate notation markup that conveys both the notation (presentation) and meaning (semantics) of the STEM content.	N/A
Additional Information:	0/0 STEM content were analyzed and passed. No Stem content was located within the text. The program used to analyze text content was NVDA which is an open source screen reader for Windows. Google chrome was used to access the book online.
G. STEM equations have appropriate notation markup that conveys both the notation (presentation) and meaning (semantics) of the STEM content.	N/A
Additional Information:	0/0 STEM content were analyzed and passed. No Stem content was located within the text. The program used to analyze text content was NVDA which is an open source screen reader for Windows. Google chrome was used to access the book online.
H. Assistive technology used can access the content from the STEM tables.	N/A
Additional Information:	0/0 STEM content were analyzed and passed. No Stem content was located within the text. The program used to analyze text content was NVDA which is an open source screen reader for Windows. Google chrome was used to access the book online.

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
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<p>Additional Information:</p>	<p>0/0 interactive elements were analyzed and passed. No interactive elements were located within the text. The program used to analyze text content was NVDA which is an open source screen reader for Windows. Google chrome was used to access the book online.</p>
<p>B. Each interactive element conveys information to assistive technology regarding the element's name, type, and status (e.g. "Play, button, selected").</p>	<p>N/A</p>
<p>Additional Information:</p>	<p>0/0 interactive elements were analyzed and passed. No interactive elements were located within the text. The program used to analyze text content was NVDA which is an open source screen reader for Windows. Google chrome was used to access the book online.</p>
<p>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).</p>	<p>N/A</p>
<p>Additional Information:</p>	<p>0/0 interactive elements were analyzed and passed. No interactive elements were located within the text. The program used to analyze text content was NVDA which is an open source screen reader for Windows. Google chrome was used to access the book online.</p>



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:	There was no link provided for the accessibility policy.
B. The organization providing the online materials has an accessibility statement.	Fail
Additional Information:	No link was provided for accessibility statement.
C. An Accessibility Evaluation Report is available from an external organization.	Fail
Additional Information:	No link was provided for 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:	3/3 Pass Chapter I is read as chapter I instead of chapter 1, read and as a-n-d. Read chapter II as capter second. Read chapter III as chapter 3rd instead of three.

3. Text Adjustment

A. Text is compatible with assistive technology.	Pass
Additional Information:	Chapters 3, 12, 17 were able to be adjusted in text size, smaller and bigger.
B. The resource allows the user to adjust the font size and font/background color (or is	Pass



rendered by an application such as a browser, media player, or reader) that offers this functionality).	
Additional Information:	Chapters 3, 12, 17 were able to be adjusted in font and color, but the images changed color as well. Because the color change goes into a black background and the images are black and white to begin with, the switch makes the images a little harder to see.

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:	0/30 pages passed. pages numbered 9-19, 120-130 and 200-210, all pages content wraps text up to zoom level of 125%, after that the text and images enlarge and the reader must scroll horizontally.
B. If the digital resource is an electronic alternative to printed materials, the page numbers correspond to the printed material.	N/A
Additional Information:	NA, there was not printed material provided for this book.

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.	N/A
Additional Information:	N/A, assistive technology was not used.



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>N/A</p>
<p>Additional Information:</p>	<p>N/A, assistive technology was not used.</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>N/A</p>
<p>Additional Information:</p>	<p>N/A, assistive technology was not used.</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>
<p>Additional Information:</p>	<p>N/A, assistive technology was not used.</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>N/A</p>
<p>Additional Information:</p>	<p>N/A, assistive technology was not used.</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>Pass</p>
<p>Additional Information:</p>	<p>All links on glossary page and list of illustrations page work, the glossary had chapter hyperlinks and they work, and the list of illustrations takes you to every image in the book.</p>
<p>B. Live hyperlinks take you to any website or webpages external to the book.</p>	<p>Fail</p>
<p>Additional Information:</p>	<p>0/20 links pass. Page 3 and 27, and 42, and 49, and 59, and 60, and 62, and 65, and 68, and 80, and 87, and 89, and 94, and 96, and 100, and 101, and 105, and 111, and 113 and 115 all fails, Under each figure(image), there is a hyperlink under that takes you to a new page where the figure/image is in color instead of black and white, the page itself is active and it works but it does not open a new window, the window you are in(the window which you are currently looking at the book with) is instead redirected to the image so you have to go back with your browsers back page button.</p>
<p>C. Live links take you to the correct webpage that is functioning properly.</p>	<p>Fail</p>
<p>Additional Information:</p>	<p>0/20 links pass. Page 3 and 27, and 42, and 49, and 59, and 60, and 62, and 65, and 68, and 80, and 87, and 89, and 94, and 96, and 100, and 101, and 105, and 111, and 113 and 115 all fails, Under each figure (image), there is a hyperlink under that takes.</p>
<p>D. Live links are descriptive enough for the users to know where it should take them.</p>	<p>Pass</p>
<p>Additional Information:</p>	<p>20/20 links pass. ALL the hyperlinks are descriptive enough to understand where the next page will go, they all say "please click here for a modern color image."</p>



9. Color and Contrast

<p>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.</p>	<p>Fail</p>
<p>Additional Information:</p>	<p>Chapter 3,,8,14 did not pass. The entire book is black and white except the hyperlinks, but they are not underlined so if you were color blind they would just appear to be another title.</p>
<p>B. Information is conveyed from the sub-categories for contrast.</p>	<p>Pass</p>
<p>Additional Information:</p>	<p>3/3Chapter 5,9,15 all passed. The entire book is black and white, except for the hyperlinks but they all passed the minimum ration value[21:0:1] ((AA standards)).</p>
<p>C. Contrast for headers passed WCAG AA standards for large texts (contrast ratio 3:1).</p>	
<p>Additional Information:</p>	<p>Passed with 21:0:1 contrast ratio.</p>
<p>D. Contrast for text passed WCAG AA standards for normal texts (contrast ratio of 4.5:1).</p>	
<p>Additional Information:</p>	<p>Passed with 21:0:1 contrast ratio.</p>
<p>E. Contrast for simple images (for example, images of atoms) passed WCAG AA standards (contrast ratio of 4.5:1).</p>	
<p>Additional Information:</p>	<p>Passed with 21:0:1 contrast ratio.</p>

10. Language

<p>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.</p>	<p>Fail</p>
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Additional Information:	ebook failed in language markup because the language of english was not marked in the code , it is marked in the first page of the book though.
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 language was specified in the code.

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:	0/3 chapters pass. Chapter 1,9,16 fails, all images are labeled and have a quick but they are not marked with an alt name in the code.
B. Decorative images are marked with null alternate text or contain markup that allows them to be ignored by assistive technology.	Fail
Additional Information:	0/3 chapters pass. Chapter 1,9,14. Because all the images in the chapters are not marked by an alt image name in the code, they are technically considered decorative. They all have a description and figure name under them, they are read from the text to speech.
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 player, or reader) that offers this functionality).	N/A
Additional Information:	N/A, All images are not considered complex because they can be described with a sentence or two.



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 was provided in the ebook.
B. A transcript is provided with all audio content.	N/A
Additional Information:	No multimedia was provided in the ebook.
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 was provided in the ebook.

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 information found in ebook.

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:	N/A, Images did not classify as STEM content.
B. STEM graphs have appropriate markup that indicates that the image is a graph.	N/A
Additional Information:	N/A, Images did not classify as STEM content.
C. STEM equations have appropriate markup that indicates that the image is an equation.	NA
Additional Information:	N/A, Images did not classify as STEM content.
D. STEM tables have appropriate markup that indicates the image is a table.	N/A



Additional Information:	N/A, Images did not classify as STEM content.
E. STEM figures have appropriate notation markup that conveys both the notation (presentation) and meaning (semantics) of the STEM content.	N/A
Additional Information:	N/A, Images did not classify as 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:	N/A, Images did not classify as 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:	N/A, Images did not classify as STEM content.
H. Assistive technology used can access the content from the STEM tables.	N/A
Additional Information:	N/A, Images did not classify as STEM content.

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 provided in ebook.
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 provided in ebook.
C. All instructions, prompts, and error messages necessary to complete forms are conveyed as text to assistive technology (or are rendered	N/A



by an application such as a browser, media player, or reader that offers this functionality).	
Additional Information:	No interactive elements provided in ebook.

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