

Web Content Accessibility Guidelines 2.0 Checklist

ProQuest Ebook Central

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Principle 1: Perceivable – information and user interface components must be presentable to users in ways they can perceive.

| Standard | Description | Apply Yes/No | Meets Yes/No | Comments (mandatory) |
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| <i>Guideline 1.1 Text Alternatives: Provide text alternatives for any non-text content so that it can be changed into other forms people need, such as large print, braille, speech, symbols or simpler language.</i> | | | | |
| 1.1.1 | <p>Non-text Content: All non-text content that is presented to the user has a text alternative that serves the equivalent purpose, except for the situations listed below (Level A).</p> <ul style="list-style-type: none"> • Controls, Input: If non-text content is a control or accepts user input, then it has a name that describes its purpose. (Refer to Guideline 4.1 for additional requirements for controls and content that accepts user input.) • Time-Based Media: If non-text content is time-based media, then text alternatives at least provide descriptive identification of the non-text content. (Refer to Guideline 1.2 for the additional requirements for media.) • Test: If non-text content is a test or exercise that would be invalid if presented in text, then text alternatives at least provide descriptive identification of the non-text content. • Sensory: If non-text content is primarily intended to create a specific sensory experience, then text alternatives at least provide descriptive identification of the non-text content. | Yes | Yes | <p>Ebook Central is designed to support alternative access to non-text content wherever possible.</p> <p>Images: All images used to represent functionality or actions have associated text labels (or alt /title text if a text label is not appropriate).</p> <p>We cannot guarantee that all images in the content have been given alt text. A small number of books are in PDF image format only (unreadable to screen readers).</p> <p>Controls: Text labels identify all form fields. Labels/ids and other accessible code necessary for screen readers are associated with all form elements.</p> <p>Time-Based Media, Test, Sensory: Not used in Ebook Central.</p> |

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| | <ul style="list-style-type: none"> • CAPTCHA: If the purpose of non-text content is to confirm that content is being accessed by a person rather than a computer, then text alternatives that identify and describe the purpose of the non-text content are provided, and alternative forms of CAPTCHA using output modes for different types of sensory perception are provided to accommodate different disabilities. • Decorative, Formatting, Invisible: If non-text content is pure decoration, is used only for visual formatting, or is not presented to users, then it is implemented in a way that it can be ignored by assistive technology. | | | <p>CAPTCHA: Not used in Ebook Central.</p> <p>Decorative, Formatting, Invisible: If non-text content is pure decoration, is used only for visual formatting, or is not presented to users, then it is implemented in a way that it can be ignored by assistive technology. Decorative images have blank alt text, so they will be ignored by assistive technology.</p> |
| Guideline 1.2 Time-based Media: Provide alternatives for time-based media. | | | | |
| 1.2.1 | <p>Audio-only and Video-only (Prerecorded): For prerecorded audio-only and prerecorded video-only media, the following are true, except when the audio or video is a media alternative for text and is clearly labeled as such (Level A):</p> <ul style="list-style-type: none"> • Prerecorded Audio-only: An alternative for time-based media is provided that presents equivalent information for prerecorded audio-only content. • Prerecorded Video-only: Either an alternative for time-based media or an audio track is provided that presents equivalent information for prerecorded video-only content. | No | Not applicable | Ebook Central does not offer audio and video content. |
| 1.2.2 | <p>Captions (Prerecorded): Captions are provided for all prerecorded audio content in synchronized media, except when the media is a media alternative for text and is clearly labeled as such. (Level A)</p> | No | Not applicable | Ebook Central does not offer audio and video content. |
| 1.2.3 | <p>Audio Description or Media Alternative (Prerecorded): An alternative for time-based media or audio description of the prerecorded video content is provided for synchronized media, except when the media is a media alternative for text and is clearly labeled as such. (Level A)</p> | No | Not applicable | Ebook Central does not offer audio and video content. |
| 1.2.4 | <p>Captions (Live): Captions are provided for all live audio content in synchronized media. (Level AA)</p> | No | Not applicable | Ebook Central does not offer audio and video content. |
| 1.2.5 | <p>Audio Description (Prerecorded): Audio description is provided for all prerecorded video content in synchronized media. (Level AA)</p> | No | Not applicable | Ebook Central does not offer audio and video content. |

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| 1.2.6 | Sign Language (Prerecorded): Sign language interpretation is provided for all prerecorded audio content in synchronized media. (Level AAA) | No | Not applicable | Ebook Central does not offer audio and video content. |
| 1.2.7 | Extended Audio Description (Prerecorded): Where pauses in foreground audio are insufficient to allow audio descriptions to convey the sense of the video, extended audio description is provided for all prerecorded video content in synchronized media. (Level AAA) | No | Not applicable | Ebook Central does not offer audio and video content. |
| 1.2.8 | Media Alternative (Prerecorded): An alternative for time-based media is provided for all prerecorded synchronized media and for all prerecorded video-only media. (Level AAA) | No | Not applicable | Ebook Central does not offer audio and video content. |
| 1.2.9 | Audio-only (Live): An alternative for time-based media that presents equivalent information for live audio-only content is provided. (Level AAA) | No | Not applicable | Ebook Central does not offer audio and video content. |
| <i>Guideline 1.3 Adaptable: Create content that can be presented in different ways (for example simpler layout) without losing information or structure.</i> | | | | |
| 1.3.1 | Info and Relationships: Information, structure, and relationships conveyed through presentation can be programmatically determined or are available in text. (Level A) | Yes | Yes | Ebook Central employs the following to support this criterion: <ul style="list-style-type: none"> • Labels/ids with form elements • markup for lists & headings • CSS to control visual presentation of text • Correct use of semantic markup (bold, italics, etc.) |
| 1.3.2 | Meaningful Sequence: When the sequence in which content is presented affects its meaning, a correct reading sequence can be programmatically determined. (Level A) | Yes | Yes | Content is ordered in a meaningful sequence, even when page styling is turned off. |
| 1.3.3 | Sensory Characteristics: Instructions provided for understanding and operating content do not rely solely on sensory characteristics of components such as shape, size, visual location, orientation, or sound. (Level A) | Yes | Yes | Instructions provided do not rely solely on sensory characteristics of components. Typically labels and descriptive text are used. |
| <i>Guideline 1.4 Distinguishable: Make it easier for users to see and hear content including separating foreground from background.</i> | | | | |

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| 1.4.1 | Use of Color: Color is not used as the only visual means of conveying information, indicating an action, prompting a response, or distinguishing a visual element. (Level A) | Yes | Yes | <p>Color is used to enhance usability by drawing attention to certain areas of the screen.</p> <p>Color is never the only means of conveying information, indicating an action, prompting a response, or distinguishing a visual element.</p> <p>For example, the ProQuest Ebook Central logo is identifiable as such to assistive technologies.</p> |
| 1.4.2 | Audio Control: If any audio on a Web page plays automatically for more than 3 seconds, either a mechanism is available to pause or stop the audio, or a mechanism is available to control audio volume independently from the overall system volume level. (Level A) | No | Not applicable | Ebook Central does not offer audio content or native text-to-speech functionality. |
| 1.4.3 | <p>Contrast (Minimum): The visual presentation of text and images of text has a contrast ratio of at least 4.5:1, except for the following: (Level AA)</p> <ul style="list-style-type: none"> • Large Text: Large-scale text and images of large-scale text have a contrast ratio of at least 3:1; • Incidental: Text or images of text that are part of an inactive user interface component, that are pure decoration, that are not visible to anyone, or that are part of a picture that contains significant other visual content, have no contrast requirement. • Logotypes: Text that is part of a logo or brand name has no minimum contrast requirement. | Yes | Yes | Text throughout Ebook Central meets the suggested color contrast ratio. In addition, CSS style sheets can be switched off or overridden by user preferences. |
| 1.4.4 | Resize text: Except for captions and images of text, text can be resized without assistive technology up to 200 percent without loss of content or functionality. (Level AA) | Yes | Yes | Text throughout Ebook Central can be resized using standard browser or native product controls without loss of content or functionality. |

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| 1.4.5 | <p>Images of Text: If the technologies being used can achieve the visual presentation, text is used to convey information rather than images of text except for the following: (Level AA)</p> <ul style="list-style-type: none"> • Customizable: The image of text can be visually customized to the user's requirements; • Essential: A particular presentation of text is essential to the information being conveyed. | Yes | Partial | <p>HTML/CSS is used to represent visual presentation whenever possible.</p> <p>In the data, full text content is presented as text wherever available. However, a few books are in PDF image format.</p> |
| 1.4.6 | <p>Contrast (Enhanced): The visual presentation of text and images of text has a contrast ratio of at least 7:1, except for the following: (Level AAA)</p> <ul style="list-style-type: none"> • Large Text: Large-scale text and images of large-scale text have a contrast ratio of at least 4.5:1; • Incidental: Text or images of text that are part of an inactive user interface component, that are pure decoration, that are not visible to anyone, or that are part of a picture that contains significant other visual content, have no contrast requirement. • Logotypes: Text that is part of a logo or brand name has no minimum contrast requirement. | Yes | Partial | <p>The majority of text in Ebook Central meets the suggested color contrast ratio.</p> |
| 1.4.7 | <p>Low or No Background Audio: For prerecorded audio-only content that (1) contains primarily speech in the foreground, (2) is not an audio CAPTCHA or audio logo, and (3) is not vocalization intended to be primarily musical expression such as singing or rapping, at least one of the following is true: (Level AAA)</p> <ul style="list-style-type: none"> • No Background: The audio does not contain background sounds. • Turn Off: The background sounds can be turned off. • 20 dB: The background sounds are at least 20 decibels lower than the foreground speech content, with the exception of occasional sounds that last for only one or two seconds. | No | Not applicable | <p>Ebook Central does not offer audio content.</p> |

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| 1.4.8 | <p>Visual Presentation: For the visual presentation of blocks of text, a mechanism is available to achieve the following: (Level AAA)</p> <ul style="list-style-type: none"> • Foreground and background colors can be selected by the user. • Width is no more than 80 characters or glyphs (40 if CJK). • Text is not justified (aligned to both the left and the right margins). • Line spacing (leading) is at least space-and-a-half within paragraphs, and paragraph spacing is at least 1.5 times larger than the line spacing. • Text can be resized without assistive technology up to 200 percent in a way that does not require the user to scroll horizontally to read a line of text on a full-screen window. | Yes | Partial | Text is not justified on Ebook Central, and may be resized using standard browser controls or native product controls without use of horizontal scrolling. Foreground and background colors may be inverted by the user. |
| 1.4.9 | <p>Images of Text (No Exception): Images of text are only used for pure decoration or where a particular presentation of text is essential to the information being conveyed. (Level AAA)</p> | Yes | No | A small number of books are in PDF image format. |

Principle 2: Operable - User interface components and navigation must be operable.

| Standard | Description | Apply Yes/No | Meets Yes/No | Comments |
|---|--|--------------|--------------|---|
| <i>Guideline 2.1 Keyboard Accessible: Make all functionality available from a keyboard.</i> | | | | |
| 2.1.1 | <p>Keyboard: All functionality of the content is operable through a keyboard interface without requiring specific timings for individual keystrokes, except where the underlying function requires input that depends on the path of the user's movement and not just the endpoints. (Level A)</p> | Yes | Yes | Product functions are available and executable from a keyboard when using Accessibility Mode. |
| 2.1.2 | <p>No Keyboard Trap: If keyboard focus can be moved to a component of the page using a keyboard interface, then focus can be moved away from that component using only a keyboard interface, and, if it requires more than unmodified arrow or tab keys or other standard exit methods, the user is advised of the method for moving focus away. (Level A)</p> | Yes | Yes | Focus can be moved to and away from components using only a keyboard. |

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| 2.1.3 | Keyboard (No Exception): All functionality of the content is operable through a keyboard interface without requiring specific timings for individual keystrokes. (Level AAA) | Yes | Yes | Product functions are available and executable from a keyboard when using Accessibility Mode. |
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Principle 2: Operable - User interface components and navigation must be operable.

| Guideline 2.2 Enough Time: Provide users enough time to read and use content. | | | | |
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| 2.2.1 | <p>Timing Adjustable: For each time limit that is set by the content, at least one of the following is true: (Level A)</p> <ul style="list-style-type: none"> • Turn off: The user is allowed to turn off the time limit before encountering it; or • Adjust: The user is allowed to adjust the time limit before encountering it over a wide range that is at least ten times the length of the default setting; or • Extend: The user is warned before time expires and given at least 20 seconds to extend the time limit with a simple action (for example, "press the space bar"), and the user is allowed to extend the time limit at least ten times; or • Real-time Exception: The time limit is a required part of a real-time event (for example, an auction), and no alternative to the time limit is possible; or • Essential Exception: The time limit is essential and extending it would invalidate the activity; or • 20 Hour Exception: The time limit is longer than 20 hours. | Yes | Partial | Product times out user sessions after 30 minutes by default, but the timeout period is extended to 6 hours for users in Accessibility Mode. |
| 2.2.2 | <p>Pause, Stop, Hide: For moving, blinking, scrolling, or auto-updating information, all of the following are true: (Level A)</p> <ul style="list-style-type: none"> • Moving, blinking, scrolling: For any moving, blinking or scrolling information that (1) starts automatically, (2) lasts more than five seconds, and (3) is presented in parallel with other content, there is a mechanism for the user to pause, stop, or hide it unless the movement, blinking, or scrolling is part of an activity where it is essential; and • Auto-updating: For any auto-updating information that (1) starts automatically and (2) is presented in parallel with other content, there is a mechanism for the user to pause, stop, or hide it or to control the frequency of the update unless the auto-updating is part of an activity where it is essential. | No | Not applicable | Ebook Central does not have any moving, blinking, scrolling, or auto-updating content. |

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| 2.2.3 | No Timing: Timing is not an essential part of the event or activity presented by the content, except for non-interactive synchronized media and real-time events. (Level AAA) | Yes | Partial | Ebook Central does not require timed responses, but does set a time limit to the user's session. |
| 2.2.4 | Interruptions: Interruptions can be postponed or suppressed by the user, except interruptions involving an emergency. (Level AAA) | No | Not applicable | This criterion is not applicable to Ebook Central. |
| 2.2.5 | Re-authenticating: When an authenticated session expires, the user can continue the activity without loss of data after re-authenticating. (Level AAA) | Yes | Yes | Ebook Central returns the user to their previous page after re-authentication. |
| <i>Guideline 2.3 Seizures: Do not design content in a way that is known to cause seizures.</i> | | | | |
| 2.3.1 | Three Flashes or Below Threshold: Web pages do not contain anything that flashes more than three times in any one second period, or the flash is below the general flash and red flash thresholds. (Level A) | Yes | Yes | Ebook Central does not use flashing or blinking elements in the user interface. |
| 2.3.2 | Three Flashes: Web pages do not contain anything that flashes more than three times in any one second period. (Level AAA) | Yes | Yes | Ebook Central does not use flashing or blinking elements in the user interface. |
| <i>Guideline 2.4 Navigable: Provide ways to help users navigate, find content, and determine where they are.</i> | | | | |

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| 2.4.1 | Bypass Blocks: A mechanism is available to bypass blocks of content that are repeated on multiple Web pages. (Level A) | Yes | Partial | <p>Skip navigation links are provided on most pages. The skip links remain invisible for mouse users, but are accessible to screen readers.</p> <p>The exception is the Bookshelf page, which we intend to address in a future release (currently targeted for Q2 2017).</p> |
| 2.4.2 | Page Titled: Web pages have titles that describe topic or purpose. (Level A) | Yes | No | Most pages of Ebook Central have descriptive page titles. We plan to address exceptions in Q2, 2017. |
| 2.4.3 | Focus Order: If a Web page can be navigated sequentially and the navigation sequences affect meaning or operation, focusable components receive focus in an order that preserves meaning and operability. (Level A) | Yes | Yes | Page elements and functionality are placed in an order that follows the sequences and relationships in the content. |

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| 2.4.4 | Link Purpose (In Context): The purpose of each link can be determined from the link text alone or from the link text together with its programmatically determined link context, except where the purpose of the link would be ambiguous to users in general. (Level A) | Yes | Yes | Meaningful link text has been used throughout Ebook Central. Where link text could be considered ambiguous, we have provided title attribute text with additional information. |
| 2.4.5 | Multiple Ways: More than one way is available to locate a Web page within a set of Web pages except where the Web Page is the result of, or a step in, a process. (Level AA) | Yes | Yes | More than one way is available to locate the main pages of Ebook Central. |
| 2.4.6 | Headings and Labels: Headings and labels describe topic or purpose. (Level AA) | Yes | Yes | Descriptive headings and labels have been used throughout the interface. |
| 2.4.7 | Focus Visible: Any keyboard operable user interface has a mode of operation where the keyboard focus indicator is visible. (Level AA) | Yes | Yes | Ebook Central has been implemented to support the default focus indicator for the device being used. Link text and other elements have often been styled to change in visual appearance when the mouse hovers over them. |
| 2.4.8 | Location: Information about the user's location within a set of Web pages is available. (Level AAA) | Yes | Partial | All pages have a title and a clear main heading. |

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| 2.4.9 | Link Purpose (Link Only): A mechanism is available to allow the purpose of each link to be identified from link text alone, except where the purpose of the link would be ambiguous to users in general. (Level AAA) | Yes | Partial | The purpose of most links can be identified from link text alone. In some cases, the link text has been supplemented with additional information in the title attribute or hidden text within the link (e.g., links which open in a new browser window). |
| 2.4.10 | Section Headings: Section headings are used to organize the content. (Level AAA) | Yes | Partial | If content was supplied with section headings, these have been preserved when the content is downloaded. |

Principle 3: Understandable - Information and the operation of user interface must be understandable.

| Standard | Description | Apply Yes/No | Meets Yes/No | Comments |
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| <i>Guideline 3.1 Readable: Make text content readable and understandable.</i> | | | | |
| 3.1.1 | Language of Page: The default human language of each Web page can be programmatically determined. (Level A) | Yes | Yes | The language of each page has been specified in the HTML. |

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| 3.1.2 | Language of Parts: The human language of each passage or phrase in the content can be programmatically determined except for proper names, technical terms, words of indeterminate language, and words or phrases that have become part of the vernacular of the immediately surrounding text. (Level AA) | Yes | Partial | The language(s) of each book is available in its bibliographic information and may be used to configure the screen reader. |
| 3.1.3 | Unusual Words: A mechanism is available for identifying specific definitions of words or phrases used in an unusual or restricted way, including idioms and jargon. (Level AAA) | Yes | No | Ebook Central does not guarantee support for this criterion as we do not control the exact words used in our aggregated content. |
| 3.1.4 | Abbreviations: A mechanism for identifying the expanded form or meaning of abbreviations is available. (Level AAA) | Yes | No | Ebook Central uses abbreviations that are typically well known to researchers, such as the citation formats (e.g. APA, MLA). |
| 3.1.5 | Reading Level: When text requires reading ability more advanced than the lower secondary education level after removal of proper names and titles, supplemental content, or a version that does not require reading ability more advanced than the lower secondary education level, is available. (Level AAA) | Yes | No | Ebook Central does not meet this criterion. |
| 3.1.6 | Pronunciation: A mechanism is available for identifying specific pronunciation of words where meaning of the words, in context, is ambiguous without knowing the pronunciation. (Level AAA) | Yes | No | Ebook Central does not meet this criterion. |
| <i>Guideline 3.2 Predictable: Make Web pages appear and operate in predictable ways.</i> | | | | |
| 3.2.1 | On Focus: When any component receives focus, it does not initiate a change of context. (Level A) | Yes | Yes | Context is not changed on focus alone. |

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| 3.2.2 | On Input: Changing the setting of any user interface component does not automatically cause a change of context unless the user has been advised of the behavior before using the component. (Level A) | Yes | Yes | Context is not changed automatically – appropriate advisories and controls are provided. |
| 3.2.3 | Consistent Navigation: Navigational mechanisms that are repeated on multiple Web pages within a set of Web pages occur in the same relative order each time they are repeated, unless a change is initiated by the user. (Level AA) | Yes | Yes | The global site navigation links appear in the same place and the same order on every page of Ebook Central. |
| 3.2.4 | Consistent Identification: Components that have the same functionality within a set of Web pages are identified consistently. (Level AA) | Yes | Yes | Care has been taken to identify components with the same functionality consistently throughout Ebook Central. |
| 3.2.5 | Change on Request: Changes of context are initiated only by user request or a mechanism is available to turn off such changes. (Level AAA) | Yes | Yes | Forms are not submitted automatically; appropriate controls are provided. Pop-up layers are not launched automatically; appropriate controls are provided. Users must select or click on links. |
| <i>Guideline 3.3 Input Assistance: Help users avoid and correct mistakes.</i> | | | | |
| 3.3.1 | Error Identification: If an input error is automatically detected, the item that is in error is identified and the error is described to the user in text. (Level A) | Yes | Yes | Error messages are provided on all forms within Ebook Central. |

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| 3.3.2 | Labels or Instructions: Labels or instructions are provided when content requires user input. (Level A) | Yes | Yes | Input fields are clearly labeled and explanatory text is provided to assist the user where necessary. |
| 3.3.3 | Error Suggestion: If an input error is automatically detected and suggestions for correction are known, then the suggestions are provided to the user, unless it would jeopardize the security or purpose of the content. (Level AA) | Yes | Yes | Suggestions for error correction are made when applicable. |
| 3.3.4 | Error Prevention (Legal, Financial, Data): For Web pages that cause legal commitments or financial transactions for the user to occur, that modify or delete user-controllable data in data storage systems, or that submit user test responses, at least one of the following is true: (Level AA) <ul style="list-style-type: none"> • Reversible: Submissions are reversible. • Checked: Data entered by the user is checked for input errors and the user is provided an opportunity to correct them. • Confirmed: A mechanism is available for reviewing, confirming, and correcting information before finalizing the submission. | No | Not applicable | This criterion is not applicable to Ebook Central. |
| 3.3.5 | Help: Context-sensitive help is available. (Level AAA) | Yes | Yes | A link to our context-sensitive help pages is available on every page of Ebook Central. Additional help examples and explanatory text are provided on the page where necessary. |

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| 3.3.6 | <p>Error Prevention (All): For Web pages that require the user to submit information, at least one of the following is true: (Level AAA)</p> <ul style="list-style-type: none"> • Reversible: Submissions are reversible. • Checked: Data entered by the user is checked for input errors and the user is provided an opportunity to correct them. • Confirmed: A mechanism is available for reviewing, confirming, and correcting information before finalizing the submission. | Yes | Partial | <p>All forms are validated for input errors and opportunities for correction are given.</p> <p>Saved books, searches, and annotations can be deleted.</p> <p>Downloading of content does not meet this criterion.</p> |
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Principle 4: Robust - Content must be robust enough that it can be interpreted reliably by a wide variety of user agents, including assistive technologies.

| Standard | Description | Apply Yes/No | Meets Yes/No | Comments |
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| <i>Guideline 4.1 Compatible: Maximize compatibility with current and future user agents, including assistive technologies.</i> | | | | |
| 4.1.1 | Parsing: In content implemented using markup languages, elements have complete start and end tags, elements are nested according to their specifications, elements do not contain duplicate attributes, and any IDs are unique, except where the specifications allow these features. (Level A) | Yes | Yes | Pages conform to HTML web standards. |
| 4.1.2 | Name, Role, Value: For all user interface components (including but not limited to: form elements, links and components generated by scripts), the name and role can be programmatically determined; states, properties, and values that can be set by the user can be programmatically set; and notification of changes to these items is available to user agents, including assistive technologies. (Level A) | Yes | Yes | <p>Pages conform to HTML web standards.</p> <p>Text labels identify all form fields. Label/ids and other accessible code necessary for screen readers are associated with all form elements.</p> |