
OPEN BOOK ACCESSIBILITY



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<https://compass.copim.pub/books/09-open-book-accessibility>

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OARC

Our Auditing Tool - OARC



The Open Accessibility Review Checker

Our custom auditing tool has been developed by Open Book Futures to help small presses audit their static eBook files for accessibility. There are 40 points on the checklist, split into 5 sections: Text Features, Non-Text Features, Semantic Tagging, Reading Order and Navigation, and Metadata. There is an optional 6th section for if your book involves Pre-recorded Media, and for that there are 2 points. To determine these checklist points, we took out just the elements of WCAG that apply to static eBook files, removing those that apply to dynamic and interactive web pages, and adding in some additional EPUB or PDF specific points. Therefore the checklist is not suitable for auditing websites.

You can also access OARC formatted as a spreadsheet: see [11 Open Accessibility Review Checker \(OARC\)](#)



On the spreadsheet you can find some additional context including whether each feature can be audited by a machine or needs to be done manually, and our approximation of how complicated each task is. Therefore, below, we present the checklist 3 times, in section order, and then split by human or machine audit and then by complexity.



A Text Features

1. Text is actual text; not images of text.
2. Colours of text has contrast ratio of at least 4.5:1
3. Headings are descriptive of the content they contain
4. Text is reflowable without causing horizontal scrolling or other problems
5. Text can be resized without causing horizontal scrolling or other problems
6. Line height and spacing, letter spacing and word spacing can all be changed without problems
7. Orientation can be changed without problems
8. Fonts are coded correctly



B Non-Text Features

1. Non-text features (figures, graphics, captions, links, mathematical expressions) have meaningful ALT text
2. Colours of non-text features (figures, graphics) has contrast ratio of at least 3:1
3. Non-text features (figures, graphics, captions, links, mathematical expressions) have multiple ways of conveying meaning
4. Links are accessible and meaningful
5. Other clickable elements are 24 x 24 pixels
6. Other clickable elements have visible text that matches the text in the underlying code
7. A list's numbers, letters or bullets are displayed and tagged correctly
8. A table's headers, rows and columns are tagged correctly



C Semantic Tagging

1. Non-decorative/real and decorative/artefact content is all tagged correctly
2. Non-text features (figures, graphics, captions, links, mathematical expressions) are tagged and grouped correctly
3. Lists, tables and TOCs are tagged correctly
4. Headers, footers, notes and references are tagged correctly
5. Headings are tagged as headings

6. Headings have just 1 <H1>, at the beginning
7. Headings <H2>-<H6> don't skip levels
8. No headings <H7> or higher
9. Other non-PDF structure elements tagged correctly (EPUBs)
10. PDF tags support the separate reading order (PDFs)
11. PDF role mapping is correct (PDFs)
12. Other structure elements in PDF tagged correctly (PDFs)



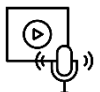
D Reading Order and Navigation

1. Multiple ways to navigate
2. Static page breaks are present (EPUBs)
3. Static page breaks are navigable (EPUBs)
4. Navigation consistent throughout
5. Reading/focus order retains meaning when using tabs or a screenreader
6. Repeating blocks of content can be skipped



E Metadata and Conformance reporting

1. File has metadata
2. File metadata has a title that is used instead of file name
3. File metadata has a valid language
4. Where the language changes, individual parts have a valid language
5. Source of static page breaks/pagination is identifiable (EPUBs)
6. File metadata includes full accessibility conformance information



F Pre-recorded Media (optional)

1. All audio only content has an alternative suitable for individuals with a hearing impairment
2. All video only content has an alternative suitable for individuals with a visual impairment

OARC by auditing type

Machine/Automated Auditing (19)

- A2. Colours of text has contrast ratio of at least 4.5:1
- A8. Fonts are coded correctly
- B2. Colours of non-text features (figures, graphics) has contrast ratio of at least 3:1
- B5. Other clickable elements are 24 x 24 pixels
- B6. Other clickable elements have visible text that matches the text in the underlying code
- C6. Headings have just 1 <H1>, at the beginning
- C7. Headings <H2>-<H6> don't skip levels
- C8. No headings <H7> or higher
- C10. PDF tags support the separate reading order
- C11. PDF role mapping is correct
- C12. Other structure elements in PDF tagged correctly
- D1. Multiple ways to navigate
- D2. Static page breaks are present
- D3. Static page breaks are navigable
- E1. File has metadata
- E2. File metadata has a title that is used instead of file name
- E3. File metadata has a valid language
- E4. Where the language changes, individual parts have a valid language
- E6. File metadata includes full accessibility conformance information

Human/Manual Auditing (22)

- A1. Text is actual text; not images of text
- A3. Headings are descriptive of the content they contain
- A4. Text is reflowable without causing horizontal scrolling or other problems
- A5. Text can be resized without causing horizontal scrolling or other problems
- A6. Line height and spacing, letter spacing and word spacing can all be changed without problems
- A7. Orientation can be changed without problems
- B1. Non-text features (figures, graphics, captions, links, mathematical expressions) have meaningful ALT text
- B3. Non-text features (figures, graphics, captions, links, mathematical expressions) have multiple ways of conveying meaning
- B4. Links are accessible and meaningful
- B7. A list's numbers, letters or bullets are displayed and tagged correctly
- B8. A table's headers, rows and columns are tagged correctly
- C1. Non-decorative/real and decorative/artefact content is all tagged correctly
- C2. Non-text features (figures, graphics, captions, links, mathematical expressions) are tagged and grouped correctly
- C3. Lists, tables and TOCs are tagged correctly
- C4. Headers, footers, notes and references are tagged correctly
- C5. Headings are tagged as headings
- C9. Other non-PDF structure elements tagged correctly
- D4. Navigation consistent throughout

- D5. Reading/focus order retains meaning when using tabs or a screenreader
- D6. Repeating blocks of content can be skipped
- E5. Source of static page breaks/pagination is identifiable
- F1. All audio only content has an alternative suitable for individuals with a hearing impairment
- F2. All video only content has an alternative suitable for individuals with a visual impairment

OARC by complexity

Easy wins (21)

- A1. Text is actual text; not images of text
- A2. Colours of text has contrast ratio of at least 4.5:1
- A4. Text is reflowable without problems
- A5. Text can be resized without problems
- A6. Line height and spacing, letter spacing and word spacing can all be changed without problems
- A7. Orientation can be changed without problems
- B5. Other clickable elements are 24 x 24 pixels
- B6. Other clickable elements have visible text that matches the text in the underlying code
- B7. A list's numbers, letters or bullets are displayed and tagged correctly
- C1. Non-decorative/real and decorative/artefact content is all tagged correctly
- C2. Non-text features (figures, graphics, captions, links, mathematical expressions) are tagged and grouped correctly
- C3. Lists, tables and TOCs are tagged correctly
- C4. Headers, footers, notes and references are tagged correctly
- C5. Headings are tagged as headings
- C6. Headings have just 1 <H1>, at the beginning
- C7. Headings <H2>-<H6> don't skip levels
- C8. No headings <H7> or higher
- C9. Other non-PDF structure elements tagged correctly
- D1. Multiple ways to navigate
- D4. Navigation consistent throughout
- D6. Repeating blocks of content can be skipped

Medium (13)

- A3. Headings are descriptive of the content they contain
- A8. Fonts are coded correctly
- B2. Colours of non-text features (figures, graphics) has contrast ratio of at least 3:1
- B4. Links are accessible and meaningful
- B8. A table's headers, rows and columns are tagged correctly
- D2. Static page breaks are present
- D3. Static page breaks are navigable
- D5. Reading/focus order retains meaning when using tabs or a screenreader
- E1. File has metadata
- E2. File metadata has a title that is used instead of file name
- E3. File metadata has a valid language
- E5. Source of static page breaks/pagination is identifiable
- E6. File metadata includes full accessibility conformance information

Complicated (5)

- B1. Non-text features (figures, graphics, captions, links, mathematical expressions) have meaningful ALT text

B3. Non-text features (figures, graphics, captions, links, mathematical expressions) have multiple ways of conveying meaning

B10. PDF tags support the separate reading order

B11. PDF role mapping is correct

B12. Other structure elements in PDF tagged correctly

Variable (3)

E4. Where the language changes, individual parts have a valid language

F1. All audio only content has an alternative suitable for individuals with a hearing impairment

F2. All video only content has an alternative suitable for individuals with a visual impairment