COOL4Ed ACCESSIBILITY CHECKPOINTS

METHODS FOR HTML FORMATS (ASSISTIVE TECHNOLOGIES)



Evaluation time

Estimate evaluation time per book:

- Novice rater: Approx. 3 hours
- Experienced rater: 2.5 ~ 3 hours

Depending on book content and amount of material,

- STEM books
- Books with more pages
- Books with lots of images
- Complex web format

Takes longer to evaluate

Accessibility Checkpoints

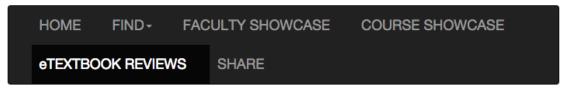
- Accessibility Documentation
- 2. Text Access
- 3. Text Adjustment
- 4. Reading Layout
- 5. Reading Order
- Structural Markup/Navigation
- 7. Tables

- 8. Hyperlinks
- 9. Color and Contrast
- 10. Language
- 11. Images
- 12. Multimedia
- 13. Flickering
- 14. STEM
- 15. Interactive Elements

STEPS:

Visit Cool4Ed eTextbook Reviews site @ http://www.cool4ed.org/reviews.html



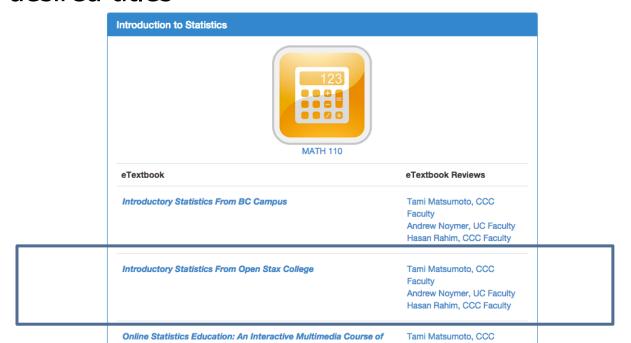


STEPS:

- 1. Visit Cool4Ed eTextbook Reviews site @ http://www.cool4ed.org/reviews.html
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STEPS:

2. Select desired titles



3. Search for preferred format and download text



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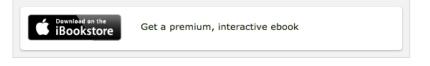
Formats

Online texts are available in various formats and should be evaluated based on the following rankings:

- 1. EPUB3
- 2. HTML
- Microsoft Word
- 4. PDF

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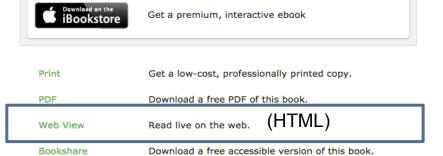
Formats

In other words, EPUB3 is ideal, but if it is not available, we move down the list and search for the next available format

Download textbook or open link (if applicable)

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Formats

Note: This is an OpenStax text. Although EPUB3 isn't listed, it is available!

To determine if there is an EPUB3 format for OpenStax texts, additional navigation is required.

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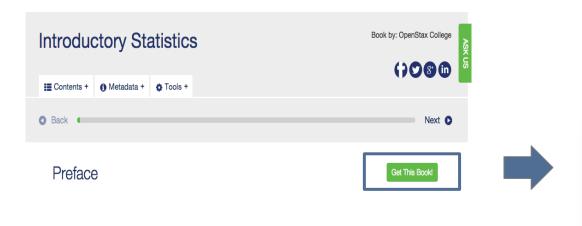
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Preface



Now you can download the EPUB file!



Note: At the time of this writing, only OpenStax texts have been found to need additional navigation. All other texts have been found to clearly list out all available formats.



All information obtained from textbook evaluation will be entered into checklists:

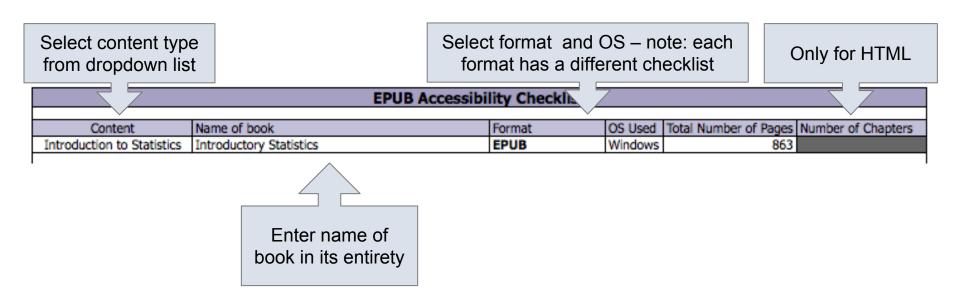
	HTML Acces	sibility Checklist						
ontent	Name of book	Format	OS Used	Total Number of Pages N	humbay of Chantous			
ontent	Name of book	HTML	OS 0980	lotal Number of Pages In	tumber of Chapters			
		mine						
Check point	Criteria	Amount of Materia	Pass/Fa					
1 Acc. Documentation	A. URL to Formal Accessibility Policy				EPUB Accessib	ility Checklist		
1 Acc. Documentation	B. URL to Accessibility Statement			Content	Name of book	Format	OC Head	Total Number of Pages Number of Chap
1 Acc. Documentation	C. URL to Accessibility Evaluation Report			Content	Name of book	EPUB	O3 0300	lotal Number of Pages Number of Chap
2 Text Access	Text to Speech)			LFOD		
3 Text Adjustment	A. Compatible)	# Check point	Criteria	Amount of Material	Dace/Eail	Additional Info
3 Text Adjustment	B. Adjust font and colors)	1 Acc. Documentation	A. URL to Formal Accessibility Policy	Amount of Material	rassyrali	Additional Info
4 Reading Layout	A. Reflow the text	30 web pages		1 Acc. Documentation	B. URL to Accessibility Statement		-	
4 Reading Layout	B. Page # match printed material & reflow of	text 30 web pages		1 Acc. Documentation	C. URL to Accessibility Statement		+	
5 Reading Order	Digital resource layout			2 Text Access	Text to Speech	0 pages		
6 Stuctural Markup	A. Navigation text			3 Text Adjustment	A. Compatible	0 pages	_	<u> </u>
6 Stuctural Markup	B. Lists			3 Text Adjustment	B. Adjust font and colors	0 pages		
6 Stuctural Markup	C. eReader application			4 Reading Layout	A. Reflow the text	0 pages		
7 Table Markup	Table Markup			4 Reading Layout	B. Page #s match printed material & reflow of text			
8 Hyperlinks	Hyperlinks (within book)		_	5 Reading Order	Digital resource layout	u pages		
8 Hyperlinks	Hyperlink (live on internet)	20 links		6 Stuctural Markup	A. Navigation text		+	
9 Color and Contrast	A. Color redundancy		_	6 Stuctural Markup	B. Lists		-	
9 Color and Contrast	B. Contrast			6 Stuctural Markup	C. eReader application		+	
0 Language	A. Markup		_	7 Table Markup	Table Markup			
0 Language	B. Passage Markup			8 Hyperlinks	Hyperlinks (in-book)	30 links		
1 Images	A. Non-decorative		_	8 Hyperlinks	Hyperlink (live)	20 links		
1 Images	B. Decorative		-	9 Color and Contrast	A. Color redundancy	ZU III IKS	+	
1 Images	C. Complex		_	9 Color and Contrast	B. Contrast		-	
2 Multimedia	A. Text Track		_	10 Language	A. Markup		+	
2 Multimedia	B. Transcript		_	10 Language	B. Passage Markup		+	
2 Multimedia	C. Assistive Player		-	11 Images	A. Non-decorative		+	
3 Flickering	Flickering	10 links	_	11 Images	B. Decorative		+	
4 STEM	A. Markup (figures)	10 figures	_	11 Images	C. Complex		+	
4 STEM	A. Markup (graphs)	10 graphs		12 Multimedia	A. Text Track		+	
4 STEM	A. Markup (equation)	10 equations		12 Multimedia	B. Transcript		+	
4 STEM	B. Notation Markup (figures)	10 figures		12 Multimedia	C. Assistive Plaver		+	
4 STEM	B. Notaition Markup (graphs)	10 graphs		13 Flickering	Flickering	10 links	_	t
4 STEM	B. Notation (equation)	10 equations		14 STEM	A. Markup (figures)	10 figures	+	<u> </u>
5 Interactive Elements	A. Keyboard		_	14 STEM	A. Markup (graphs)	10 rigures 10 graphs		
5 Interactive Elements	B. Markup		_	14 STEM	A. Markup (graphs) A. Markup (equation)	10 graphs 10 equations		1
5 Interactive Elements	C. Text Prompts		_	14 STEM	B. Notation Markup (figures)	10 equations 10 figures		
- Licinoito				14 STEM	B. Notation Markup (graphs)	10 rigures 10 graphs		
				14 STEM	B. Notation (equation)	10 graphs 10 equations		
				15 Interactive Elements	A. Keyboard	TO Equacions	+	<u> </u>
				15 Interactive Elements	B. Markup		+	
				15 Interactive Elements	C. Text Promots		+	
				13 Interactive Elements	IC. TEXT FIUTIPES			L

For every book, enter the following:

- Content area
- Name of book
- Format (i.e., EPUB, HTML, Word, or PDF)
- OS used (e.g., Microsoft; Windows)
- For EPUB, Word, and PDF formats: Total number of pages (obtained from Word or PDF format preferably, if available)
- For HTML only: Total number of chapters

Note: Only Windows
will be used for
analysis until Apple
equivalents are
decided upon.

Example for the EPUB format of <u>Introductory Statistics</u> (PDF version has 863 pages)



Note: When certain information is entered such as the <u>number</u> <u>of pages</u> or <u>number of chapters</u>, certain information in the checklist is updated:

	EPUB Accessibility Checklist					
	Content	Name of book	Format	OS Used	Total Number of Pages	Number of Chapters
Ir	ntroduction to Statistics	Introductory Statistics	EPUB	Windows	863	
#	Check point	Criteria	Amount of Material	Pass/Fail	Additional Info	
1	Acc. Documentation	A. URL to Formal Accessibility Policy				
1	Acc. Documentation	B. URL to Accessibility Statement				
1	Acc. Documentation	C. URL to Accessibility Evaluation Report				
2	Text Access	Text to Speech	172.6 pages			
3	Text Adjustment	A. Compatible	86.3 pages			
3	Text Adjustment	B. Adjust font and colors	86.3 pages			
4	Reading Layout	A. Reflow the text	172.6 pages			
- 4	Reading Layout	B. Page #s match printed material & reflow of text	172.6 pages			

This information is based upon predetermined values for the amount of information that needs to be evaluated. You only need to <u>round up</u> to the next page count (or link count).

EPUB Accessibility Checklist					
	I	Format			
Content	Content Name of book		OS Used	Total Number of Pages Number of Chapters	
Introduction to Statistics	Introductory Statistics	EPUB	Windows	863	
# Check point	Criteria	Amount of Material	Pass/Fail	Additional Info	
1 Acc. Documentation	A. URL to Formal Accessibility Policy				
1 Acc. Documentation	B. URL to Accessibility Statement				
1 Acc. Documentation	C. URL to Accessibility Evaluation Report			173 pages	
2 Text Access	Text to Speech	172.6 pages		87 pages	
3 Text Adjustment	A. Compatible	86.3 pages			
3 Text Adjustment	B. Adjust font and colors	86.3 pages		87 pages	
4 Reading Layout	A. Reflow the text	172.6 pages		173 pages	
4 Reading Layout	B. Page #s match printed material & reflow of text	172.6 pages		173 pages	
	•		•		

The percentages used are included in this presentation, but that is only for your reference – the checklist will fill out this information for you!

	EPUB Accessibility Checklist					
Ir	Content ntroduction to Statistics	Name of book Introductory Statistics	Format EPUB	OS Used Windows	Total Number of Pages Number of Chapters 863	
#	Check point	Criteria	Amount of Material	Pass/Fail	Additional Info	
	Acc. Documentation Acc. Documentation	A. URL to Formal Accessibility Policy B. URL to Accessibility Statement C. URL to Accessibility Franketica Papart			470	
2	Acc. Documentation Text Access Text Adjustment	C. URL to Accessibility Evaluation Report Text to Speech A. Compatible	172.6 pages 86.3 pages		173 pages 87 pages	
3	Text Adjustment Reading Layout	B. Adjust font and colors A. Reflow the text	86.3 pages 172.6 pages		87 pages 173 pages	
	Reading Layout	B. Page #s match printed material & reflow of text	172.6 pages		173 pages	

Skills Commons Accessibility Checkpoints

All information obtained from textbook evaluation will be entered into the checkpoints document:

	Ú	IJ	
. Text Adjustment	PASS/FAIL:	Ranking:	- 2

- A. Text is compatible with assistive technology.
- 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).

Additional Information: Please describe the technologies (hardware and software versions) and methodologies you used to evaluate the accessibility of the resource for this feature.

Enter info such as the pages you evaluated here as well.

Pass, Fail, or N/A?

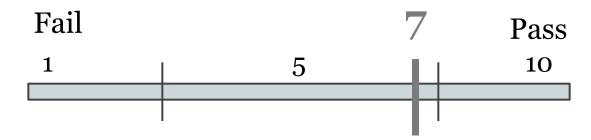
- Evaluate material based on the amount of material included in the checklist.
- If there is no related materials, mark N/A for that checkpoint. The only exception are <u>Acc Documentation</u> and Flickering.

No Flickering = Pass

No Acc Doc = Fail

Ratings

Ratings are on a scale of 1-10



- Failure to meet a checkpoint (Fail) should not be rated above a 7
- Meeting a checkpoint (Pass) should not be rated below a 7

HTML

HTML Evaluation Requirements

OS

Windows OS (XP or above)

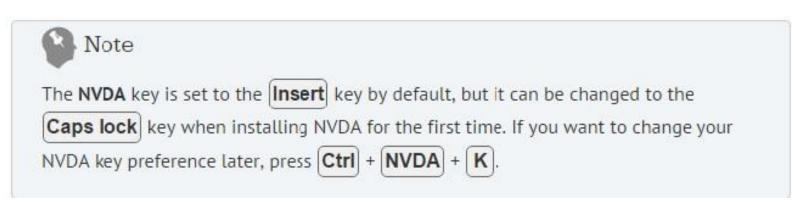
Require Downloading

- NVDA (<u>Download</u>)
- Google Chrome (<u>Download</u>)
- Care your eyes (Google Chrome extensions) (<u>Download</u>)
- Color Contrast Analyzer- CCA (<u>Download</u>)

NVDA

Keep in mind when using NVDA:

- Make sure that NumLock is off.
- Try using only the keyboard.
- For more keyboard shortcut (<u>Click here</u>)



1. Accessibility Documentation

For the textbooks' organizations, find the following:

- ✓ URL to formal Accessibility Policy
- URL to accessibility statements
- ✓ URL to Accessibility Evaluation Report

2. Text Access

The text of the digital resource is available to assistive technology that allows the user to enable text-to-speech (TTS) functionality

Text Access

STEPS:

- Download NVDA
- 2. Open the book with Google Chrome
- 3. Activate NVDA (Ctrl + Alt + N)
- 4. Use NVDA to read from top of the page (Numpad +) Use Ctrl to stop

Note: make sure your speaker is on!

3. Text Adjustment (Size)

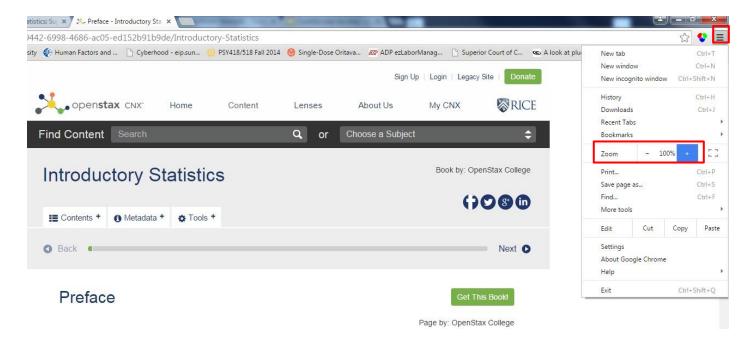
☑ The text allows the user to adjust the font size

STEPS:

- 1. Open the book with Google Chrome
- 2. Click on Menu > Zoom "+" for increase, "-" for decrease

3. Text Adjustment (size)

- 1. Open the book with Google Chrome
- 2. Click on Menu > Zoom "+" for increase, "-" for decrease



3. Text Adjustment (Color)

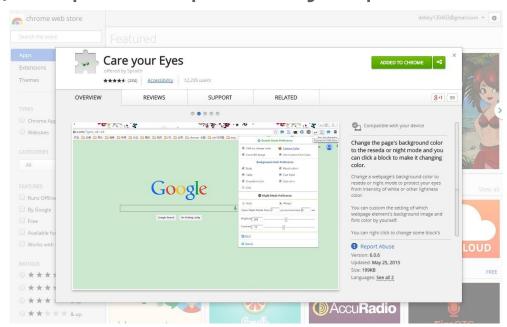
The text allows the user to adjust the font/background color

STEPS:

- Download "Care your Eyes"
- Open the book with Google Chrome and click on the Care your eyes icon
- 3. Select Night Mode > See if the font/background color changes

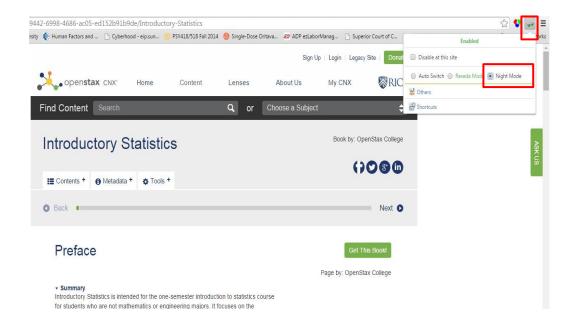
3. Text Adjustment (color)

Download "Care your Eyes" @ https://chrome.google.com/webstore/detail/care-your-eyes/fidmpnedniahpnkeomejhnepmbdamlhl?hl=en



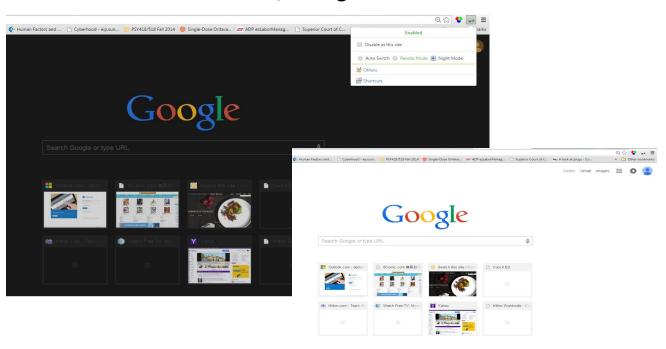
3. Text Adjustment (color)

Open the book with Google Chrome and click on the Care your eyes icon > Select Night Mode > See if the font/background color changes



3. Text Adjustment (color)

Example: Accessible website for font/background



4. Reading Layout (Reflow)

☑ 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

STEPS:

- 1. Open the book with Google Chrome
- 2. Click on Menu > Zoom "+" for increase, "-" for decrease
- 3. Check if the text reflows

4. Reading Layout (Page # match)

If the digital resource is an electronic alternative to printed materials, the page numbers correspond to the printed material

***Compare pages with printed material (PDF if no hard copy)
***If printed material not available, mark N/A

4. Reading Layout

Do the page numbers correspond to the printed text?

STEPS:

- 1. Randomly select TEN pages from your online text from each third of the book (i.e., middle, beginning, and end. 30 pages total)
- 2. Find corresponding pages in printed book or in PDF version
- 3. Determine if page numbers are the same in both versions

4. Reading Layout

HTML Book - Page 44

De Anza College			Foothill College			
	Number	Percent		Number	Percent	
Full-time	9,200	40.9%	Full-time	4,059	28.6%	
Part-time	13,296	59.1%	Part-time	10,124	71.4%	
Total	22.496	100%	Total	14.183	100%	

Fall Term 2007 (Census day)

Tables are a good way of organizing and displaying data. But graphs can be even more helpful in understanding the data. There are no strict rules concerning which graphs to use. Two graphs that are used to display qualitative data are pie charts and bar graphs.

In a pie chart, categories of data are represented by wedges in a circle and are proportional in size to the percent of individuals in each category.

In a **bar graph**, the length of the bar for each category is proportional to the number or percent of individuals in each category. Bars may be vertical or horizontal.

A Pareto chart consists of bars that are sorted into order by category size (largest to smallest).

Look at Figure and Figure and determine which graph (pie or bar) you think displays the comparisons better

It is a good idea to look at a variety of graphs to see which is the most helpful in displaying the data. We might make different choices of what we think is the "best" graph depending on the data and the context. Our choice also depends on what we are using the data for





Printed Book – Page 14

14 CHAPTER 1 | SAMPLING AND DATA

Qualitative Data Discussion

Below are tables comparing the number of partiene and full-time students at De Attaz College and Foothill College enrolled for the spring 2010 quarter. On the table slipply very composition (frequencies) and percentages or proportions (relative frequencies). The percent columns make comparing the same categories in the colleges easier. Displaying percentages along with the numbers is forten helpful, but it is particularly important when comparing sets of data that do not have the same totals, such as the total enrollments for both colleges in this example. Notice how much larger the percentage for part-time students at Foothill College is command to De Attaz College.

De Anza College				Foothill College			
	Number	Percent			Number	Percent	
Full-time	9,200	40.9%	П	Full-time	4,059	28.6%	
Part-time	13,296	59.1%	П	Part-time	10,124	71.4%	
Total	22,496	100%		Total	14,183	100%	

Table 1.2 Fall Term 2007 (Census day)

Tables are a good way of organizing and displaying data. But graphs can be even more helpful in understanding the data. There are no strict rules concerning which graphs to use. Two graphs that are used to display qualitative data are pie charts and har grands.

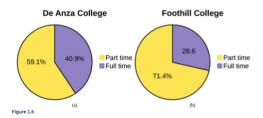
In a pie chart, categories of data are represented by wedges in a circle and are proportional in size to the percent of individuals in each category.

In a **bar graph**, the length of the bar for each category is proportional to the number or percent of individuals in each category. Bars may be vertical or horizontal.

A Pareto chart consists of bars that are sorted into order by category size (largest to smallest).

Look at Figure 1.5 and Figure 1.6 and determine which graph (pie or bar) you think displays the comparisons better.

It is a good idea to look at a variety of graphs to see which is the most helpful in displaying the data. We might make different choices of what we think is the "best" graph depending on the data and the context. Our choice also depends on what we are using the data for.



5. Reading Order

Reading order for digital resource content logically corresponds to the visual layout of the page when rendered by assistive technology

STEPS:

- 1. Open the book with Google Chrome
- 2. Locate 5 pages (include page # in the reports) that contains a more complicated layout
- 3. Use the NVDA to read from top of the page (Numpad +) and check if the reading order is logical

6. Structural Markup / Navigation

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

STEPS:

- 1. Open the book with Google Chrome and activate NVDA
- 2. Use heading quick keys (H & 1-6) to check for all heading levels

Headings and Lists

Command	Description		
H	Headings Quick Key		
1-6	Headings level 1-6		
L	List Quick Key		
	List Item Quick Key		

Structural Markup / Navigation

✓ The text of the digital resource includes markup for bullets and numbered lists that is compatible with assistive technology

STEPS:

- 1. Open the book with Google Chrome and activate NVDA
- 2. Locate a list
- 3. Use List quick keys (L) to check if the program can recognize it as a list.

Command	Description		
H	Headings Quick Key		
1-6	Headings level 1-6		
L	List Quick Key		
	List Item Quick Key		

Headings and Lists

^{**}Repeat the steps for 10 lists***

Structural Markup / Navigation

✓ 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

Not using reader application, mark N/A on the reports

7. Tables

Data tables include markup (e.g. tags or styles) that identifies row and column headers in a manner that is compatible with assistive technology

STEPS:

- 1. Open the book with Google Chrome and activate NVDA
- 2. Locate a table
- 3. Use Table quick keys (T) to check if the program can recognize it as a table, then use other quick keys to check for all cells.

Tables

Command	Description
T	Table Quick Key
Ctrl + Alt +	Cell to Right
Ctrl + Alt +	Cell to Left
Ctrl + Alt + 1	Cell Below
Ctrl + Alt +	Cell Above

Repeat the steps for 10 tables*

8. Hyperlinks

- Functionality: Links (e.g. website or email addresses) within the text of the digital resource are rendered as active hyperlinks in a manner that allows them to be detected and activated with assistive technology.
- Descriptive: The link is descriptive enough for the users to know where the link will take them. If the link appears as an URL = fail this sub-category.
 - E.g. <u>CSULB homepage</u>
 <u>www.csulb.edu</u>
- ☑ Checking for <u>live</u> hyperlinks (in-book links are live too)

Hyperlinks

- 1. Open the book with Google Chrome and activate NVDA
- 2. Locate a few hyperlinks
- 3. Use Links quick keys (TAB or Shift TAB) to check if the program can recognize it as a link, then press enter to see if the link function correctly (take you to the right location)
- 4. Tab through a total of 50 links from different section of the book to check for both <u>functionality</u> and <u>descriptive</u> name.
- **If nothing happens then the link doesn't work

9. Color & Contrast (Color Redundancy)

Color redundancy (information is not conveyed by color alone) needs to be checked manually

n changes in classrooms has several other effects. One, for example, is that it can tempt teachers to think that what is taught is equivalent to what is learned—even e different. If I assign a reading to my students about the Russian Revolution, it would be nice to assume not only that they have read the same words, but also lear read and learned all of what I assigned; others may have read everything but misunderstood the material or remembered only some of it; and still others, unfortunat firm this picture, if asked confidentially. There are ways, of course, to deal helpfully with such diversity of outcomes; for suggestions, see especially section 10.1 as dependent on sequencing and readiness

ween teaching and learning creates a secondary issue for teachers, that of educational readiness. Traditionally the concept referred to students' preparedness to constant school for example, if he or she was in good health, showed moderately good social skills, could take care of personal physical needs (like eating lunch or in Table 2.6 shows a similar set of criteria for determining whether a child is "ready" to learn to read (Copple & Bredekamp, 2006). At older ages (such as in high to take a course in physics, for example, a student must first have certain prerequisite experiences, such as studying advanced algebra or calculus. To begin work to mention also studying educational psychology!).

9. Color & Contrast (Contrast Ratio)

- The visual presentation of text and images of text in the digital resource has a contrast ratio of at least 4.5:1 (AA)
- ✓ Large text (18 point +) has a contrast ratio of at least 3:1 (AA)

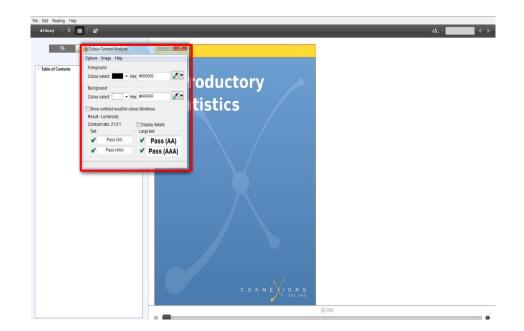
Normal text

Large text

Color & Contrast (Contrast Ratio)

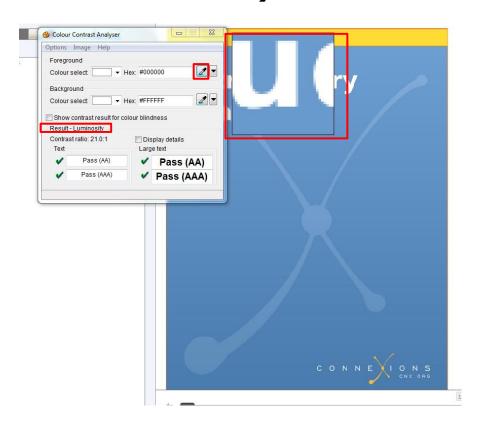
Colour Contrast Analyzer (CCA)

- Download Colour Contrast Analyzer Tool
- Open the document you want to evaluate
- Open the application



Color & Contrast (Contrast Ratio)

- 4. Make sure you are in the **Result -- Luminosity** mode.
- 5. Click the **Foreground eye dropper** tool, hover over
 and click the foreground
 color to select it.



Color & Contrast (Contrast Ratio)

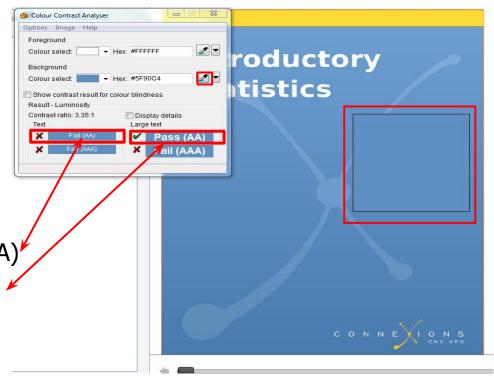
 Click the Background eye dropper tool, hover over and click the background color.

 Determine if the text is greater than 18 points (e.g. Header).

Small text: Check under "Text" (AA)

Large text (18+): Check under

"Large text" (AA)

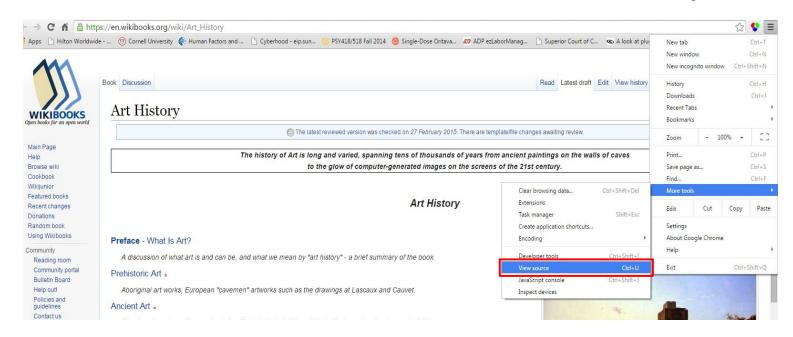


- The text of the digital resource includes markup that declares the language of the content in a manner that is compatible with assistive technology
- If the digital resource includes passages in a foreign language, these passages include markup that declares the language in a manner that is compatible with assistive technology

STEPS:

- Open the book you want to evaluate in your browser
- Click on Browser Menu > more tools > view source
 Or Ctrl + U
- 3. Press on Ctrl + F to search
- 4. Type in <u>lang="</u>
- Look for lang="language code" ex: lang="en"

- Open the book you want to evaluate in your browser
- 2. Click on Browser Menu > more tools > view source (or Ctrl+U)



- Press on Ctrl + F to search
- Type in <u>lang="</u>
- Look for lang="language code" ex: lang="en"

<link rel="alternate" type="application/x-wiki"
<link rel="edit" title="Edit" href="/w/index.php</pre>

```
lang='
                                                                                                                                                                         1 of 6 A V >
 <html lang="en" dir="ltr" class="client-nojs">
<meta charset="UTF-8" />
 <title>Art History - Wikibooks, open books for an open world</title>
 <meta name="generator" content="MediaWiki 1.26wmf11" />
 <link rel="alternate" type="application/x-wiki" title="Edit" href="/w/index.php?title=Art History&amp;action=edit" />
# </p
9 <link rel="shortcut icon" href="/static/favicon/wikibooks ico" />
< link rel="search" type="application/opensearchdescription +xml" href="/w/opensearch desc.php" title="Wikibooks (en)" />

<
                                                                                                                               lang="
                 PE html>
                 ang="en" dir="ltr" class="client-nois">
     <head
     <title>Art History - Wikibooks, open books for a
     <meta name="generator" content="MediaWiki 1.26wm</pre>
```

11. Images

- 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)
- Decorative images are marked with null alternate text or contain markup that allows them to be ignored by assistive technology
- Complex images, charts, and graphs have longer text descriptions that are compatible with assistive technology

Images

STEPS:

- 1. Open the book with Google Chrome and activate NVDA
- 2. Locate an image
- 3. Use Image quick key (G) or Link quick key (TAB) to check if the program recognize it as an image or link.
- 4. Check if the image have alternative text
 - ***Practice and examples***

Images (Additional Manual Check)

- Check manually: Make sure the descriptions for the images are descriptive enough for both non-decorative images and complex images.
- Rule of thumb: if the image cannot be described in one sentence, it's complex!

12. Multimedia

- A synchronized text track (e.g., open or closed captions) is provided with all video content
- A transcript is provided with all audio content

STEPS:

- 1. Search webpages for multimedia content
- 2. Search for synchronized text tracks or transcripts

12. Multimedia

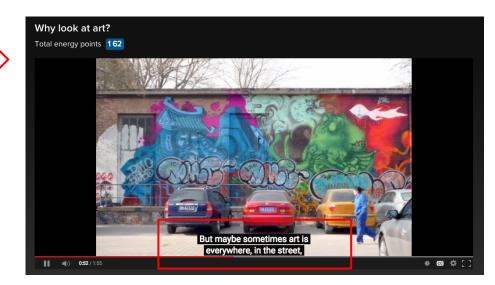
Audio/video content is delivered via a media player that is compatible with assistive technology

Not using additional assistive tech to open audio/video content, mark N/A in all reports for this sub-category.

12. Multimedia (Synchronized Text)

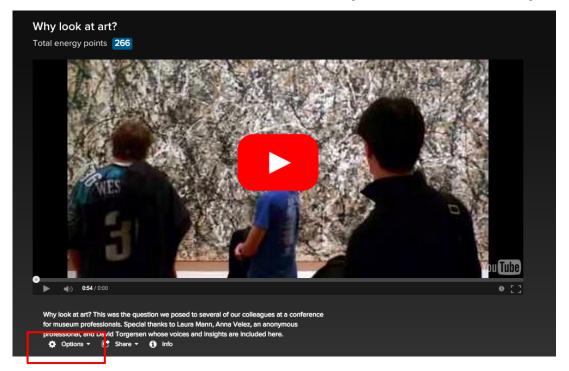
- 1. Find multimedia
- 2. Search for availability of a text track (e.g., CC)

ALL CONTENT IN "FIRST THINGS FIRST" Cave painting, contemporary art and First things first everything in between New to art? This is a good place to start. Art gives us access to the way Why look at art? people at different moments in history have understood the world. A brief history of Western culture Jump in and explore! Common questions about dates A brief history of representing of the body in Western sculpture A brief history of representing the body in Western painting What made art valuable—then and now What maps tell us The skill of describing



12. Multimedia (Transcript)

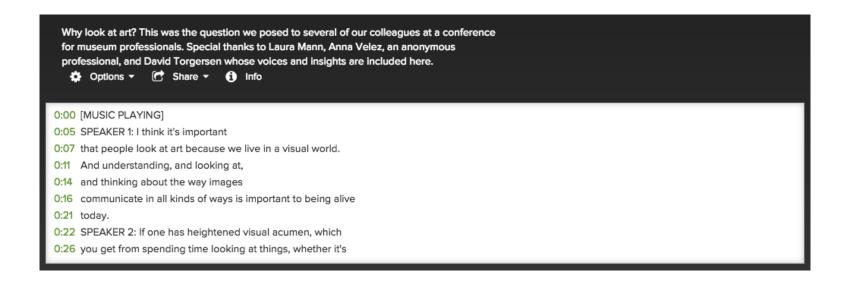
- 1. Find multimedia
- 2. Search for availability of a transcript







12. Multimedia (Transcript)



13. Flickering

Resources should not contain anything that flashes more than <u>three times</u> in any <u>one-second period</u>

Note: No examples have been found for this format

If there is no flickering = Pass this checkpoint

14. STEM

STEM: Science, Technology, Engineering, and Math

- ✓ STEM content is marked up in a manner that is compatible with assistive technology
- ☑ The resource conveys both the notation (presentation) and meaning (semantics) of the STEM content
- ✓ Including but not limited to:
 - **☑** Figures
 - **☑** Graphs
 - **☑** Tables
 - Equations

13. STEM

STEPS:

- 1. Open up the book with Google Chrome
- 2. Locate a STEM content
- 3. Select the sentence right before the content
- 4. Use Numpad + to start reading at current location
- 5. Check if the reader reads the content correctly

Reading Text

Command	Description
← or Numpad 1	Say Prior Character
or Numpad 3	Say Next Character
Numpad 2	Say Current Character
Numpad 5	Say Word
Numpad 5 twice quickly	Spell Word
Ctrl + ← or Numpad 4	Say Prior Word
Ctrl + → or Numpad 6	Say Next Word
or Numpad 7	Say Prior Line
or Numpad 9	Say Next Line
NVDA + ↑ or Numpad 8	Say Current Line
NVDA + 1 twice quickly	Spell Current Line
NVDA + or Numpad +	Read all starting at current position
Shift + Numpad 7	Top line
Shift + Numpad 9	Bottom Line
Shift + Numpad 1	Start of Line
Shift + Numpad 3	End of Line

STEM

If the image itself does not contain an Alt tag but the content/text around it does have a notation (presentation) and meaning (semantics) of the STEM content with good description then we may PASS it with a note included.

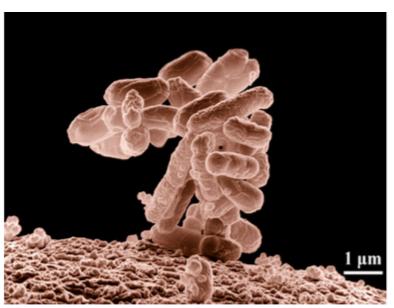


Figure 1.15 Biologists may choose to study Escherichia coli (E. coli), a bacterium that is a normal resident of our digestive tracts but which is also sometimes responsible for disease outbreaks. In this micrograph, the bacterium is visualized using a scanning electron microscope and digital colorization. (credit: Eric Erbe; digital colorization by Christopher Pooley, USDA-ARS)

STEM

Successive Ionization Energies (kJ/mol)

	Na	Mg	Al	Si	P	S	Cl	Ar
IE_1	496	738	578	787	1012	1000	1251	1520
IE_2	4562	1451	1817	1577	1903	2251	2297	2665
IE_3	6912	7733	2745	3231	2912	3361	3822	3931
IE_4	9543	10540	11575	4356	4956	4564	5158	5770
IE_5	13353	13630	14830	16091	6273	7013	6542	7238
IE_6	16610	17995	18376	19784	22233	8495	9458	8781
IE ₇	20114	21703	23293	23783	25397	27106	11020	11995

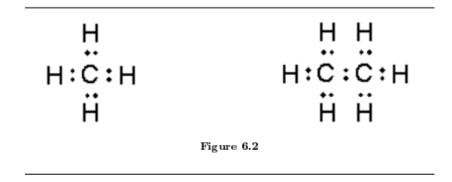


Table 4.1

Labels, descriptions, or tags should be descriptive

STEM

Amount of Material to Be Evaluated

For BOTH Markup and Notation, find:

10 figures

10 graphs

10 equations

10 tables

***As Applicable:

If there is no STEM content, mark N/A on the report***

15. Interactive Elements

Keyboard
Interactive elements allow for keyboard-only operation
WITH and WITHOUT assistive tech

STEPS:

- 1. Use the <u>TAB</u> key to navigate the menu
- 2. Items that are selected will have a box around the link
- 3. Use the **ENTER** key to select a link or other item

***As Applicable:

If there is no Interactive Elements, mark N/A on the report***

Interactive Elements

Markup

Each interactive element conveys information to assistive technology regarding the element's

✓ name

☑ type

✓ status

***As Applicable:

If there is no Interactive Elements, mark N/A on the report***

Interactive Elements

Text prompts

The following are conveyed with assistive technology:

✓ Instructions

Prompts

✓ Error messages

***As Applicable:

If there is no Interactive Elements, mark N/A on the report***