COOL4Ed ACCESSIBILITY CHECKPOINTS

METHODS FOR HTML FORMATS (NONASSISTIVE TECHNOLOGIES)



Accessibility Checkpoints

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

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

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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
- 3. 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

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Formats

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

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

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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 Accessit	Dility Checklist								
Content	Name of book	Format	OS Used	Total Number of Pages	Number of Chapters					
content	Nume of book	HTML	05 0500	Total Namber of Pages	Number of chapters					
Check point	Criteria	Amount of Material	Pass/Fa							
1 Acc. Documentation	A. URL to Formal Accessibility Policy					EPUB Accessibi	ility Checklist			
1 Acc. Documentation	B. URL to Accessibility Statement			Contont	Name of book		Exempt	OC Llood	Total Number of Dager	Number of Chapters
1 Acc. Documentation	C. URL to Accessibility Evaluation Report			Content	Name of book		FOLIP	US Used	Total Number of Pages	Number of Chapters
2 Text Access	Text to Speech	0)				EFUB			
3 Text Adjustment	A. Compatible	0)	# Check point	Critoria		Amount of Matorial	Dace/Eail	Additional Info	•
3 Text Adjustment	B. Adjust font and colors	C)	1 Acc Documentation	A LIPL to Formal Acr	cessibility Policy	Amount of Material	rassyrai	Additional Title	
4 Reading Layout	A. Reflow the text	30 web pages		1 Acc. Documentation	B LIPI to Accessibili	by Statement				
4 Reading Layout	B. Page # match printed material & reflow of tex	t 30 web pages		1 Acc. Documentation	C URL to Accessibilit	by Evaluation Report				
5 Reading Order	Digital resource layout			2 Text Access	Taxt to Speech	cy Evaluation Report	0 03095			
6 Stuctural Markup	A. Navigation text			3 Text Adjustment	A Compatible		0 pages			
6 Stuctural Markup	B. Lists			3 Text Adjustment	B Adjust font and co	olors	0 pages			
6 Stuctural Markup	C. eReader application			4 Reading Layout	A Reflow the text	00013	0 pages			
7 Table Markup	Table Markup			4 Reading Layout	B. Page #s match pr	rinted material & reflow of text	0 pages			
8 Hyperlinks	Hyperlinks (within book)			5 Reading Order	Digital resource lavo	at	o pagas			
8 Hyperlinks	Hyperlink (live on internet)	20 links		6 Stuctural Markun	A Navigation text	u.				
9 Color and Contrast	A. Color redundancy			6 Stuctural Markup	R Lists					
9 Color and Contrast	B. Contrast			6 Stuctural Markup	C. eReader application	00				
10 Language	A. Markup			7 Table Markup	Table Markup					
10 Language	B. Passage Markup			8 Hyperlinks	Hyperlinks (in-book)		30 links			
11 Images	A. Non-decorative			8 Hyperlinks	Hyperlink (live)		20 links			
11 Images	B. Decorative			9 Color and Contrast	A. Color redundancy					
11 Images	C. Complex			9 Color and Contrast	B. Contrast					
12 Multimedia	A. Text Track			10 Language	A. Markup					
12 Multimedia	B. Transcript			10 Language	B. Passage Markup					
12 Multimedia	C. Assistive Player			11 Images	A. Non-decorative					
13 Flickering	Flickering	10 links		11 Images	B. Decorative					
14 STEM	A. Markup (figures)	10 figures		11 Images	C. Complex					
14 STEM	A. Markup (graphs)	10 graphs		12 Multimedia	A. Text Track					
14 STEM	A. Markup (equation)	10 equations		12 Multimedia	B. Transcript					
14 STEM	B. Notation Markup (figures)	10 figures		12 Multimedia	C. Assistive Player			1		
14 STEM	B. Notaition Markup (graphs)	10 graphs		13 Flickering	Flickering		10 links			
14 STEM	B. Notation (equation)	10 equations		14 STEM	A. Markup (figures)		10 figures			
15 Interactive Elements	A. Keyboard			14 STEM	A. Markup (graphs)		10 graphs			
15 Interactive Elements	B. Markup			14 STEM	A. Markup (equation)	10 equations			
15 Interactive Elements	C. Text Prompts			14 STEM	B. Notation Markup ((figures)	10 figures			
				14 STEM	B. Notaition Markup	(graphs)	10 graphs			
				14 STEM	B. Notation (equation	n)	10 equations			
				15 Interactive Elements	A. Keyboard			1		
				15 Interactive Elements	B. Markup			1		
				15 Interactive Elements	C. Text Prompts			1		

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: <u>Only Windows</u> <u>will be used for</u> <u>analysis</u> 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> of pages 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							
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		1								
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								
		-						
Content	Name of book	Format	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				
 Acc. Documentation 	A. URL to Formal Accessibility Policy							
 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						
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	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								
Content	Name of book	Format	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						
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	172.6 pages		173 pages					
		1						

Skills Commons Accessibility Checkpoints

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



- 3. Text Adjustment
 - 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
- Example: Evaluate 10 links for flickering 7 / 10 links - PASS
 6/10 links - FAIL
 N/A cannot be used here!

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 and Native Software

• Windows OS (XP or above)

Require Downloading

- Color Contrast Analyzer (Download)
- Google Chrome (<u>Download</u>)
- Care your eyes (Google Chrome extensions) (Download)
- Select and Speak (Google Chrome ext.) (Download)

1. Accessibility Documentation

For the textbooks' organizations, find the following:

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

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

STEPS:

- 1. Download "Select and Speak"
- 2. Open the book with Google Chrome > Select text > Click on "Select and Speak" icon

 Download "Select and Speak" @ <u>https://chrome.google.</u> <u>com/webstore/detail/select-and-speak-text-</u> <u>to/gfjopfpjmkcfgjpogepmdjmcnihfpokn/related?hl=en</u>



 Open the book with Google Chrome > Select text > Click on "Select and Speak" icon

Note: make sure your speaker is on!



• Amount of Material to Be Evaluated

*** Sample 15% of the chapters ***

Ex. If the book has 20 chapters in total

20 chapters $x \cdot 15 = 3$ chapters

Note: round up to nearest whole number

3. Text Adjustment (Size)

 \checkmark 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 (size)

• Amount of Material to Be Evaluated

*** Sample 15% of the chapters***

 \checkmark The text allows the user to adjust the font size

STEPS:

- 1. Download "Care your Eyes"
- 2. 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

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

Apps	Car	e vour Eves				X CURCUT	all
extensions	offered t					ADDED TO CHROME	C Mar
'hemes	****	(284) <u>Accessibility</u>	2,235 users				1
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Chrome App		- -	75 TO 1. TO . + .	• •	* * 1=101 × 1	On Compatible with your device	
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ATINGS				YIY		Version: 6.06 Update: May 25, 2015 Size: 199K8 Languages: <u>See all 2</u>	LOU

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



Example: Accessible website for font/background



• Amount of Material to Be Evaluated

*** Sample 15% of the chapters***

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)
- 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 part-time and full-time students at De Anza College and Foothill College enrolled for the spin(2010 quarter. The tables display counts (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 often helpful, but is in particularly inportant when comparing uses of data had to on 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 Notific College is compared to De Anza College.

De Anza College			Foothill College			
	Number	Percent		Number	Percen	
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%	

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 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 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

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

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

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.

STEPS:

- 1. Navigate through webpages using TAB key
- 2. Use ENTER key to select page

8. Hyperlinks

- Amount of Material to Be Evaluated
- Check for functionality & descriptive of links
 *** Sample 20 hyperlinks***

· Recognize, describe, and calculate the measures of location of data: quartiles and percentiles.

Recognize, describe, and calculate the measures of the center of data: mean, median, and mode.
 Recognize, describe, and calculate the measures of the spread of data: variance, standard deviation, and rance.

Once you have collected data, what will you do with it? Data can be described and presented in many different formats. For example, suppose you are interested in buying a house in a particular area? You may have no clue about the house prices, so you might ask your real estate agent to give you a sample data set of prices. Looking at all the prices in the sample often is overwhetming. A better way might be to look at the median price and the variation of prices. The median and variation are just two ways that you will learn to describe data. Your agent might also provide you with a graph of the data.

In this chapter, you will study numerical and graphical ways to describe and display your data. This area of statistics is called "Descriptive Statistics." You will learn how to calculate, and even more importantly, how to interpret these measurements and graphs.

A statistical graph is a tool that helps you learn about the shape or distribution of a sample or a population. A graph can be a more effective way of presenting data than a mass of numbers because we can see where data clusters and where here are only a few data values. Newspapers and the internet use graphs to show trends and to enable readers to compare facts and figures quickly. Statisticians often graph data thirs to get a picture of the data. Then, more formal tools may be applied.

Some of the types of graphs that are used to summarize and organize data are the dot plot, the bar graph, the histogram, the stemand-leaf plot, the frequency polygon (a type of broken line graph), the ple chart, and the box plot. In this chapter, we will briefly look at stem-and-leaf plots, line graphs, and bar graphs, as well as frequency polygons, and time series graphs. Our emphasis will be on histograms and loox plots.



Downloads + History + Attribution +

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The visual presentation of text and images of text in the digital resource has a contrast ratio of at least 4.5:1

STEPS:

- 1. Download Colour Contrast Analyzer Tool
- 2. Open the document you want to evaluate
- 3. Open the application
- 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.
- 6. Click the **Background eye dropper** tool, hover over and click the background color.
- 7. Check and compare the ratio to 4:5:1

Colour Contrast Analyzer (CCA)

- 1. <u>Download Colour</u> <u>Contrast Analyzer Tool</u>
- 2. Open the document you want to evaluate
- 3. Open the application



- 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.



- 6. Click the **Background eye dropper** tool, hover over and click the background color.
- 7. Determine if the text is greater than 18 points (e.g. Header).
 Small text: Check under "Text"

Large text (18+): Check under

"Large text"



Amount of Material to Be Evaluated

Contrast Ratio

*** Sample 15% of the chapters***

9. Color & Contrast (Color Redundancy)

• Amount of Material to Be Evaluated

*** Sample 15% of the pages ***

- 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:

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

- 1. Open the book you want to evaluate in your browser
- 2. Click on Browser Menu > more tools > view source

- 🔿 C 🖍 🔒 htt	ps://en.wikibooks.org/wiki/Art_History			☆ 😍 🗉
Apps 🗋 Hilton Worldwi	ie 🐵 Cornell University 🚯 Human Factors and 🗋 Cyberhood - eip.sun 🍈 PSY418/518 Fall 2014 🤮 Single-Dose Oritava 🐲 ADP e	zLaborManag 🕒 Superior Court of C 👁 A look at plu	New tab New window New incognito window	Ctrl+T Ctrl+N Ctrl+Shift+N
WIKIBOOKS pen books for an open world	Art History	Read Latest draft Edit View history	History Downloads Recent Tabs Bookmarks	Ctrl+H Ctrl+J
	The latest reviewed version was checked on 27 February 2015. There are to the second secon	emplate/file changes awaiting review.	Zoom - 100%	+ 20
Main Page Help Browse wiki Cookbook	The history of Art is long and varied, spanning tens of thousands of years f to the glow of computer-generated images on the scree	Print Save page as Find	Ctrl+P Ctrl+S Ctrl+F	
Wikijunior Featured books Recent changes	Art History	Clear browsing data Ctrl+Shift+Del Extensions Task manager Shift+Fsc	More tools Edit Cut C	Copy Paste
Random book Using Wikibooks	Preface - What Is Art?	Create application shortcuts	Settings About Google Chrome	
community Reading room	A discussion of what art is and can be, and what we mean by "art history" - a brief summary of the book.	Developer tools Ctrl+Shift+I	Help	Cerl Shift O
Community portal Bulletin Board Help out!	Prehistoric Art a Aboriginal art works, European "cavemen" artworks such as the drawings at Lascaux and Cauvet.	JavaScript console Ctrl+Shift+J Inspect devices	EM	currantit+Q
Policies and guidelines Contact us	Ancient Art .	· · · ·	A	

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



- ✓ 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

Non-decorative Images

• A description of the image should be found in the ""



114 cm (Toledo Art Museum)

A central premise of Postmodern criticism is that we are constructed in the codes, discourses, and languages of our cultural contexts. These codes do not seem to be artificial to us—instead, they seem natural. But this is an effect of the power of culture in defining us and the way we look at the world. Culture "naturalizes" codes of identity, and we forget that how we define ourselves—and others—depends on choices we make. We imagine instead that things "have always been this way." Postmodern art criticism offers a way to challenge that idea, by showing how visual (i.e., cultural)representations of race, class, gender, and sex are created, how they change, and how they shape identity.

The Rise of the Museum

 <img alt="" src="https://ka-</pre> perseus-images.s3.amazonaws. com/d8ed101f92c5347c9691bd1b8b71eaf ca12730c4.jpg" /> James Tissot, London Visitors, 1874, oil on canvas, 160 x 114 cm (Toledo Art Museum)

STEPS:

- 1. Open W3C in your browser
- 2. Open the eBook you want to evaluate in your browser
- 3. Copy the eBook URL into the URL address box
- 4. Open the eBook you want to evaluate in your browser
- 5. Copy the eBook URL into the URL address box
- 6. Look for error messages related to images. If there are no error messages, the page passes.

For complex images, check a minimum of 25 images, if applicable.

1. Open W3C in your browser <u>https://validator.w</u> org/#validate_by_uri

Markup Validation Service Check the markup (HTML, XHTML,) of Web documents
Validate by URI Validate by File Upload Validate by Direct Input
Validate by URI
Validate a document online:
Address:
► More Options
Check

This validator checks the <u>markup validity</u> of Web documents in HTML, XHTML, SMIL, MathML, etc. If you wish to validate specific content such as <u>RSS/Atom feeds</u> or <u>CSS stylesheets</u>, <u>MobileOK content</u>, or to <u>find</u> <u>broken links</u>, there are <u>other validators and tools</u> available. As an alternative you can also try our <u>non-DTD-based validator</u>.



Try now the W3C Validator SuiteTM premium service that checks your entire website and evaluates its conformance with W3C open standards to quickly identify those portions of your website that need your attention.



- 2. Open the eBook you want to evaluate in your browser
- 3. Copy the eBook URL into the URL address box

Markup Validation Service Check the markup (HTML, XHTML,) of Web documents	
Validate by URI Validate by File Upload Validate by Direct Input Validate by URI Validate a document online:	
Address:]
More Options Check	

This validator checks the <u>markup validity</u> of Web documents in HTML, XHTML, SMIL, MathML, etc. If you wish to validate specific content such as <u>RSS/Atom feeds</u> or <u>CSS stylesheets</u>, <u>MobileOK content</u>, or to <u>find</u> <u>broken links</u>, there are <u>other validators and tools</u> available. As an alternative you can also try our <u>non-DTD-based validator</u>.



Try now the W3C Validator SuiteTM premium service that checks your entire website and evaluates its conformance with W3C open standards to quickly identify those portions of your website that need your attention.



- 4. Click on Check
- 5. Look for error messages related to what you want to check for

Markup Validation Service Check the markup (HTML, XHTML,) of Web documents
Validate by URI Validate by File Upload Validate by Direct Input
Validate by URI
Validate a document online:
Address:
▶ More Options
Check

This validator checks the <u>markup validity</u> of Web documents in HTML, XHTML, SMIL, MathML, etc. If you wish to validate specific content such as <u>RSS/Atom feeds</u> or <u>CSS stylesheets</u>, <u>MobileOK content</u>, or to <u>find</u> <u>broken links</u>, there are <u>other validators and tools</u> available. As an alternative you can also try our <u>non-DTD-based validator</u>.



TOR <u>Try now the W3C Validator Suite</u>[™] premium service that checks your entire website and evaluates its conformance with W3C open standards to quickly identify those portions of your website that need your attention.



The W3C validators are developed with assistance from the Mozilla Foundation, and supported by community donations. Donate and help us build better tools for a better web.

6. Look for error messages related to images. If there are no error messages, the page passes.

Ex: Any message that has "img" in it

2 Line 102, Column 8: The big element is obsolete. Use CSS instead.

<big>...

Line 103, Column 8: The big element is obsolete. Use CSS instead.

<big>Auth...

3 Line 105, Column 4: Element dl is missing a required child element.

<dd><i>Participants helping to develop this text.</i>

Content model for element d1:

Zero or more groups each consisting of one or more dt elements followed by one or more dd elements, optionally intermixed with script-supporting elements

3 Line 278, Column 178: Element link is missing required attribute property.

...gadget.extlinks%7Cext.wikimediaBadges&only=styles&skin=vector&*" />

Attributes for element <u>link</u>: Global attributes href cr<u>ossorigin</u> rel media hreflang type

Images

- Amount of Material to Be Evaluated For Complex images: Make sure the descriptions for the images are descriptive enough
- <u>Rule of thumb</u>: if the image cannot be described in one sentence, it's complex!
- Dependent on intentions of text if included in text, may be helpful to simply link them back

*** Sample 15% of the pages ***

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

See 15. Interactive elements

12. Multimedia (Synchronized Text)

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

ALL CONTENT IN "FIRST THINGS FIRST"

First things first

New to art? This is a good place to start. Art gives us access to the way people at different moments in history have understood the world. Jump in and explore!

	Cave painting, contemporary art and everything in between	Why look at art? Total energy points 162	
Ø	Why look at art?		A.
9	A brief history of Western culture		-
φ	Common questions about dates		
Ø	A brief history of representing of the body in Western sculpture		9
Ø	A brief history of representing the body in Western painting		5
ø	What made art valuable—then and now		1
Ø	What maps tell us	But maybe sometimes art is	2
Θ	The skill of describing	everywhere, in the street,	0 @ \$ []

12. Multimedia (Transcript)

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



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1/4>	< 1⁄2× <mark>1×</mark> 11⁄2×	2× 🤆)
2	Interactive t	transc	ript

🔅 Options 🕶 🊺 Share 🕶 🚯 Info

12. Multimedia (Transcript)

Why look at art? This was the question we posed to several of our colleagues at a conference for museum professionals. Special thanks to Laura Mann, Anna Velez, an anonymous professional, and David Torgersen whose voices and insights are included here.

🔅 Options 👻 🕝 Share 👻 🚯 Info

0:00 [MUSIC PLAYING]

- 0:05 SPEAKER 1: I think it's important
- 0:07 that people look at art because we live in a visual world.
- 0:11 And understanding, and looking at,
- 0:14 and thinking about the way images
- 0:16 communicate in all kinds of ways is important to being alive
- 0:21 today.
- 0:22 SPEAKER 2: If one has heightened visual acumen, which
- 0:26 you get from spending time looking at things, whether it's

12. Multimedia

• Amount of Material to Be Evaluated

*** Sample a minimum of three videos, if applicable ***

13. Flickering

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

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

STEPS:

- Manually check that the following have a description that conveys notation and meaning
 - Figures
 - Graphs
 - Tables

Manually check that all figures, graphs, and tables have a description that conveys notation and meaning



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)

Successive Ionization Energies (kJ/mol)

	Na	Mg	Al	Si	Р	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

• Amount of Material to Be Evaluated

For BOTH Markup and Notation, find:

10 figures
 10 graphs
 10 equations

(as applicable)
Keyboard
Interactive elements allow for keyboard-only operation
WITH and WITHOUT assistive tech

**Evaluate 15% of the chapters in the book with assistive technology and another 15% without assistive technology.

- Without assistive technology, use the <u>TAB</u> key to navigate the menu
- Items that are selected will have a box around the link
- Use the ENTER key to select a link



• For navigation with assistive technologies..

See Assistive Technologies PowerPoint

Markup

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

- ✓ name
- ☑ type
- ☑ status

See Assistive Technologies PowerPoint

- Text prompts
 The following are conveyed with assistive technology:
 Instructions
 Prompts
 Frror messages
 - Error messages