# COOL4Ed ACCESSIBILITY CHECKPOINTS

METHODS FOR EPUB3 FORMATS (NONASSISTIVE TECHNOLOGIES)



## **Accessibility Checkpoints**

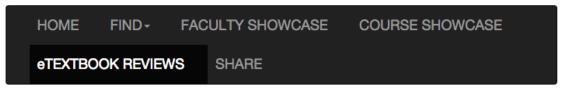
- Accessibility Documentation
- 2. Text Access
- 3. Text Adjustment
- 4. Reading Layout
- 5. Reading Order
- Structural Markup/Navigation
- 7. Tables

- 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



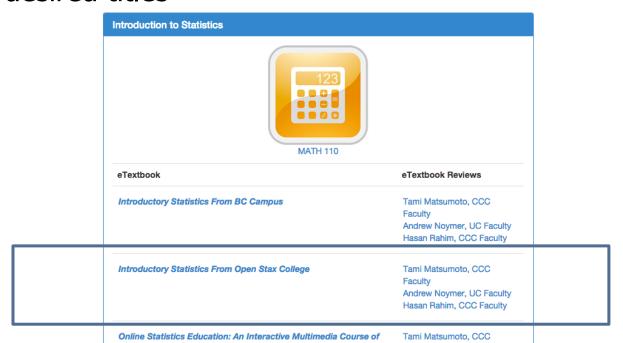


#### STEPS:

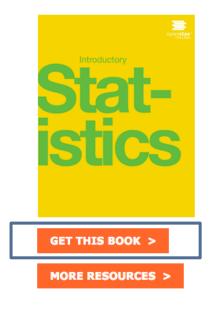
- 1. Visit Cool4Ed eTextbook Reviews site @ <a href="http://www.cool4ed.org/reviews.html">http://www.cool4ed.org/reviews.html</a>
- 2. Select desired titles
- 3. Search for preferred formats
- 4. Download text

#### STEPS:

2. Select desired titles



#### 3. Search for preferred format and download text





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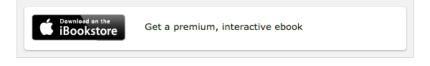
## **Formats**

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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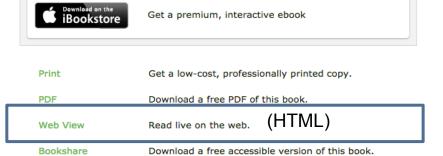
## **Formats**

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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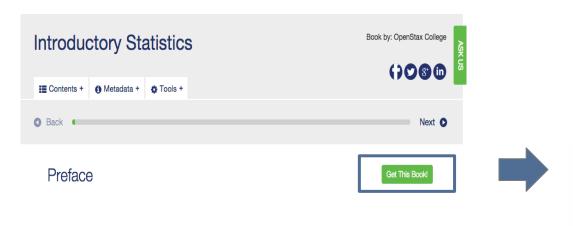
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Preface



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:

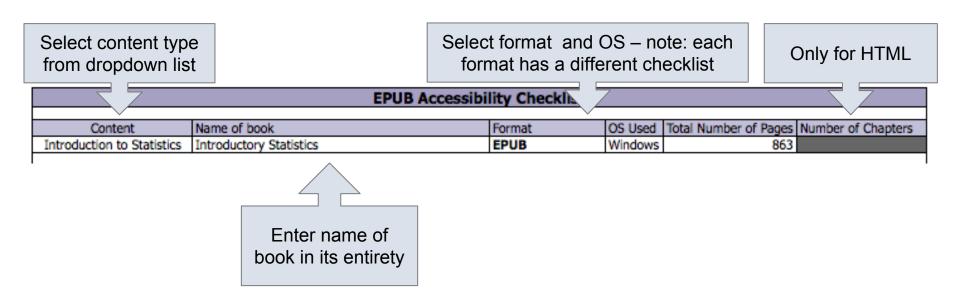
	HTML Acces	sibility Checklist						
ontent	Name of book	Format	OS Used	Total Number of Pages N	humbay of Chantous			
ontent	Name of book	HTML	OS OSEG	lotal Number of Pages IN	umber of Chapters			
	_	HIML						
Check point	Criteria	Amount of Materi	al Pass/Fa		EPUB Accessib	lite : Ch = -l-li =t		
1 Acc. Documentation	A. URL to Formal Accessibility Policy				EPUB Accessio	ility Checklist		
1 Acc. Documentation	B. URL to Accessibility Statement		_	Content	Name of book	Format	OS Head	Total Number of Pages Number of Cha
1 Acc. Documentation	C. URL to Accessibility Evaluation Report			Content	Hume of Book	EPUB	05 0500	lotal Hamber of Fages Hamber of Cita
2 Text Access	Text to Speech		0		1	LIVE		
3 Text Adjustment	A. Compatible		0	# Check point	Criteria	Amount of Material	Pacc/Fail	Additional Info
3 Text Adjustment	B. Adjust font and colors		0	1 Acc. Documentation	A. URL to Formal Accessibility Policy	Amount of Flutchur	r ussyr un	Paditorial Inio
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 Evaluation Report		+	
5 Reading Order	Digital resource layout			2 Text Access	Text to Speech	0 pages		
Stuctural Markup	A. Navigation text		_	3 Text Adjustment	A. Compatible	0 pages	_	
6 Stuctural Markup	B. Lists			3 Text Adjustment	B. Adjust font and colors	0 pages		
5 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	o pages		
Hyperlinks	Hyperlink (live on internet)	20 links		6 Stuctural Markup	A. Navigation text		+	
Color and Contrast	A. Color redundancy			6 Stuctural Markup	B. Lists		-	
9 Color and Contrast	B. Contrast			6 Stuctural Markup	C. eReader application		+	
Language	A. Markup		_	7 Table Markup	Table Markup			
) Language	B. Passage Markup		_	8 Hyperlinks	Hyperlinks (in-book)	30 links		
I Images	A. Non-decorative			8 Hyperlinks	Hyperlink (live)	20 links		
I Images	B. Decorative			9 Color and Contrast	A. Color redundancy	EU III KS	+	
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		+	
1 STEM	A. Markup (figures)	10 figures		11 Images	C. Complex		+	
STEM	A. Markup (graphs)	10 graphs		12 Multimedia	A. Text Track		_	
STEM	A. Markup (equation)	10 equations		12 Multimedia	B. Transcript		+	
STEM	B. Notation Markup (figures)	10 figures		12 Multimedia	C. Assistive Player		1	
STEM	B. Notaition Markup (graphs)	10 graphs		13 Flickering	Flickering	10 links	_	
1 STEM	B. Notation (equation)	10 equations		14 STEM	A. Markup (figures)	10 figures	<del>                                     </del>	
Interactive Elements	A. Keyboard		_	14 STEM	A. Markup (rigures) A. Markup (graphs)	10 rigures 10 graphs		
Interactive Elements	B. Markup		_	14 STEM	A. Markup (graphs)	10 equations		
Interactive Elements	C. Text Prompts		_	14 STEM	B. Notation Markup (figures)	10 equations 10 figures		
- Licinos				14 STEM	B. Notation Markup (graphs)	10 rigures 10 graphs		
				14 STEM	B. Notation (equation)	10 graphs 10 equations		
				15 Interactive Elements	A. Keyboard	10 equations	+	
				15 Interactive Elements	B. Markup		+	
				15 Interactive Elements	C. Text Prompts		+	
				13 Interactive Elements	C. 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		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		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		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					
Content Name of book Introduction to Statistics Introductory Stat			Format EPUB	OS Used Windows	Total Number of Pages Number of Chapters 863	
#	Check point	Criteria	Amount of Material	Pass/Fail	Additional Info	
3	Acc. Documentation Acc. Documentation Acc. Documentation Text Access Text Adjustment Text Adjustment Reading Layout	A. URL to Formal Accessibility Policy B. URL to Accessibility Statement C. URL to Accessibility Evaluation Report Text to Speech A. Compatible B. Adjust font and colors A. Reflow the text	172.6 pages 86.3 pages 86.3 pages 172.6 pages		173 pages 87 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:

	$\prod$	$\prod$	
Text Adjustment	PASS/FAIL:	Ranking:	-8

- 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.

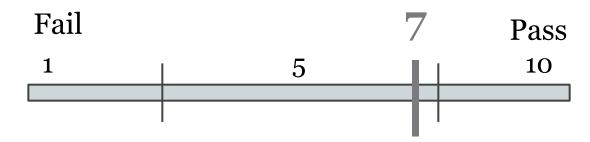
Enter info such as the pages you evaluated here as well. 3.

## 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

## EPUB3

## **EPUB3 Evaluation Requirements**

#### **OS and Native Software**

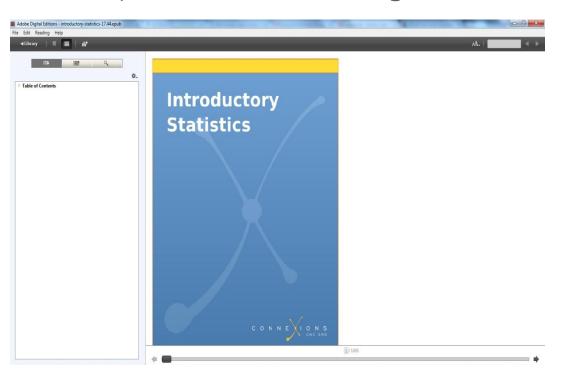
- Windows OS (XP or above)
- Narrator (Windows built-in text-to-speech)

### Require Downloading

- Adobe Digital Editions (<u>Download</u>)
- EPUB Check (<u>Download</u>)
- Pagina EPUB Checker (<u>Download</u>)
- Color Contrast Analyzer- CCA (<u>Download</u>)
- Google Chrome (<u>Download</u>)

## EPUB3

• To open EPUB files, download Adobe Digital Editions:



## EPUB3

#### To evaluate images:

- EPUB Check (uses command line tool; no GUI)
  - Download EPUB Check @ <a href="https://github.com/IDPF/epubcheck/releases/tag/v3.0.1">https://github.com/IDPF/epubcheck/releases/tag/v3.0.1</a>
- Pagina EPUB-Checker (provides GUI)
  - Download Pagina EPUB-Checker @ <a href="http://www.pagina-online.de/produkte/epub-checker/">http://www.pagina-online.de/produkte/epub-checker/</a>

## 1. Accessibility Documentation

For the textbooks' organizations, find the following:

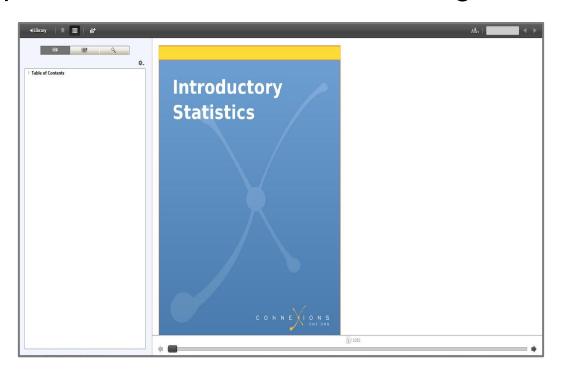
- ✓ URL to formal Accessibility Policy
- ✓ URL to accessibility statements
- ☑ URL to Accessibility Evaluation Report

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

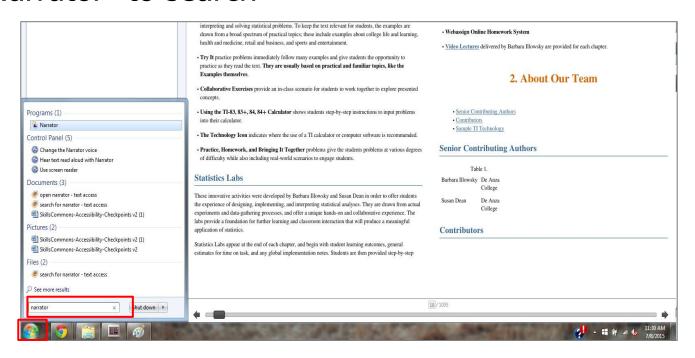
#### STEPS:

- 1. Open up EPUB book with Adobe Digital Editions
- 2. Use search function to search for "Narrator"
- Open Narrator
- Open Adobe Digital Editions to allow Narrator to read text

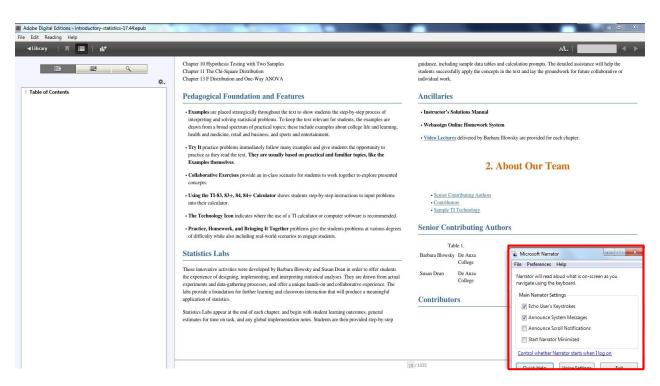
1. Open up the EPUB book with Adobe Digital Editions



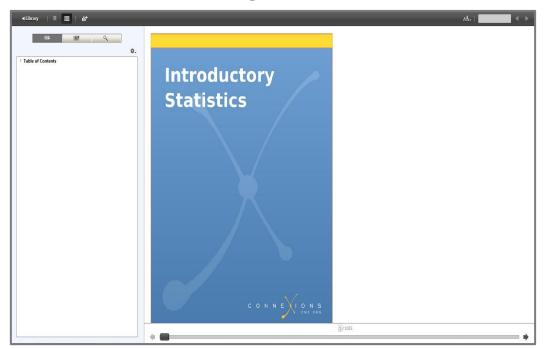
2. Use the search function from the start menu > type in "Narrator" to search



### 3. Open "Narrator"



4. Click back on the Adobe Digital Editions window and the program will start reading the text.



## 3. Text Adjustment (Size)

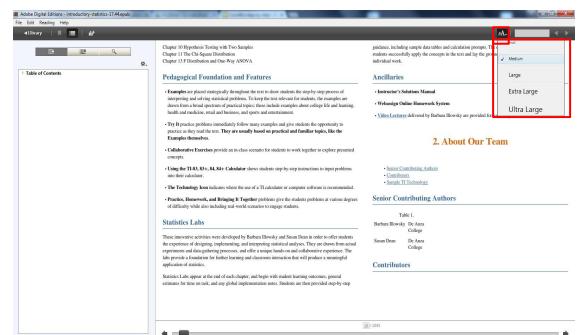
☑ The text allows the user to adjust the font size

#### **STEPS:**

- 1. Open the EPUB file with Adobe Digital Editions
- 2. Use the AA button (top right corner) or press on Ctrl + for font size increase and Ctrl for decrease.

## Text Adjustment (Size)

- Open the EPUB file with Adobe Digital Editions
- 2. Use the AA button (top right corner) or press on Ctrl + for font size increase and Ctrl for decrease.



## Text Adjustment (Size)

Amount of Material to Be Evaluated

\*\*\* Sample 10% of the pages \*\*\*

Ex. If the book has 150 pages in total 150 pages x .10 = 15 pages

You will check 15 pages for text adjustment

Note: The checklist will decide most of these values for you.

## 3. Text Adjustment (Color)

✓ The text allows the user to adjust the font size

\*\*See Assistive Technologies PowerPoint\*\*

## 4. Reading Layout

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

\*\*See Assistive Technologies PowerPoint\*\*

## 4. Reading Layout

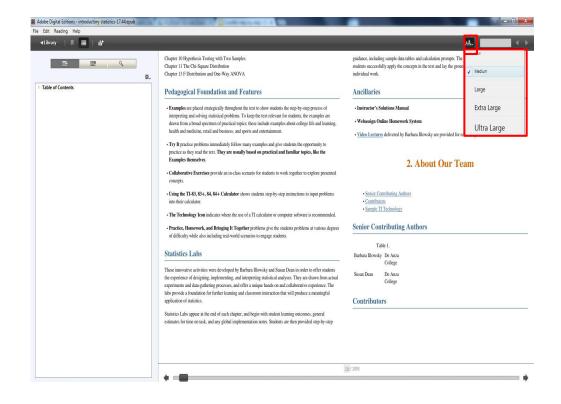
If the digital resource is an electronic alternative to printed materials, the page numbers correspond to the printed material

#### **STEPS**:

- 1. Open the EPUB file with Adobe Digital Editions
- 2. Use the AA button (top right corner) or press on Ctrl + for font size increase and Ctrl for decrease
- 3. Check the page number at the bottom of the page while adjusting the font size

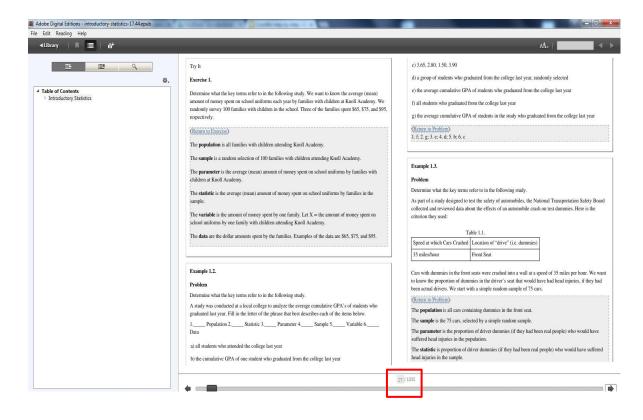
#### Reading Layout

- Open the EPUB file with Adobe Digital Editions
- Use the AA button (top right corner) or press on Ctrl + for font size increase and Ctrl - for decrease



### Reading Layout

3. Check the page number at the bottom of the page while adjusting the font size



## Reading Layout

Amount of Material to Be Evaluated

\*\*\* Sample 5% of the pages \*\*\*

## 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

## Structural Markup / Navigation

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

## 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

#### 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.
- ☑ Checking for both in-book links and live hyperlinks

#### Hyperlinks

- Open up the EPUB book with Adobe Digital **Editions**
- Select hyperlinks See if it takes you to the correct location (section of book/ website)

#### **Introductory Statistics** By: OpenStax College Online: <a href="https://legacy.cnx.org/content/col11562/1.17">https://legacy.cnx.org/content/col11562/1.17</a> This selection and arrangement of nt as a collection is copyrighted by OpenStax College. Creative Commons Attribution Lic 4.0 http://creativecommons.org/licenses/by/4.0/ Collection structure revised: 201 openstax cnx Lenses About Us Help MyCNX Content endorsed by: OpenStax College **Introductory Statistics** Collection type: Textbook openstax\* Textbook by: OpenStax College. E-mail the author Start » TABLE OF CONTENTS -Summary: Introductory Statistics is intended for the one-semester introduction to statistics course for students settings, and assumes that students have an understanding of intermediate algebra. In addition to end of s Try It problem that is designed as extra practice for students. This book also includes collaborative exercise 1. Sampling and Data student in understanding technology, this book features TI 83, 83+, 84, or 84+ calculator instructions at 2. Descriptive Statistics accommodate any instructor's particular needs. 3. Probability Topics ▶ 4. Discrete Random Variables This collection contains: ▶ 5. Continuous Random Modules by: OpenStax College. Variables ▶ 6. The Normal Distribution 7. The Central Limit Theorem ▶ 8. Confidence Intervals GIVE FEEDBACK:

9. Hypothesis Testing with

E-mail the collection author

#### Hyperlinks

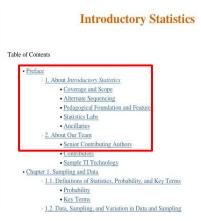
#### Check for functionality & descriptive link

- Amount of Material to Be Evaluated
  - \*\*\* Sample 30 in-book links \*\*\*
  - 10 from the beginning of the book
  - 10 from the middle of the book
  - 10 from the end of the book
- Ex. Links that takes you to a certain chapter

\*\*\* Sample 20 website hyperlinks \*\*\*

Hyperlink that takes you somewhere outside of the book

Ex. Links to a live website



#### **Introductory Statistics**

By: OpenStax College

Online: <a href="https://legacy.cnx.org/content/col11562/1.17">https://legacy.cnx.org/content/col11562/1.17</a>>

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Collection structure revised: 2014/05/09

For copyright and attribution information for the modules contained in this collection, see the "Attributions" section the end of the collection.

## 9. Color & Contrast (Color Redundancy)

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

\*\*\* Sample 5% of the pages \*\*\*

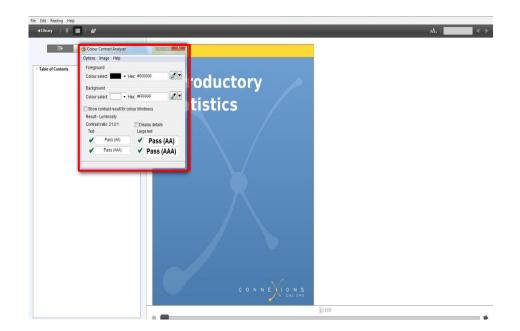
The visual presentation of text and images of text in the digital resource has a contrast ratio of at least 4.5:1

#### **STEPS:**

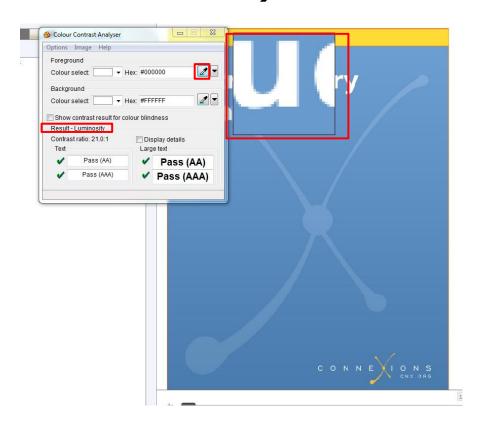
- Download Colour Contrast Analyzer Tool
- 2. Open the document you want to evaluate
- 3. Open the application
- 4. Make sure you are in the **Result --Luminosity** mode.
- 5. Click the **Foreground eye dropper** tool, hover over and click the foreground color to select it.
- 6. Click the **Background eye dropper** tool, hover over and click the background color.
- 7. Check and compare the ratio to 4:5:1

# Colour Contrast Analyzer (CCA)

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

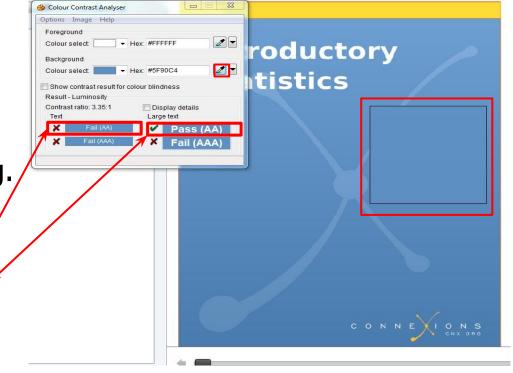
color.

 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 10% of the pages \*\*\*

#### 10. Language

- ☑ 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

#### 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

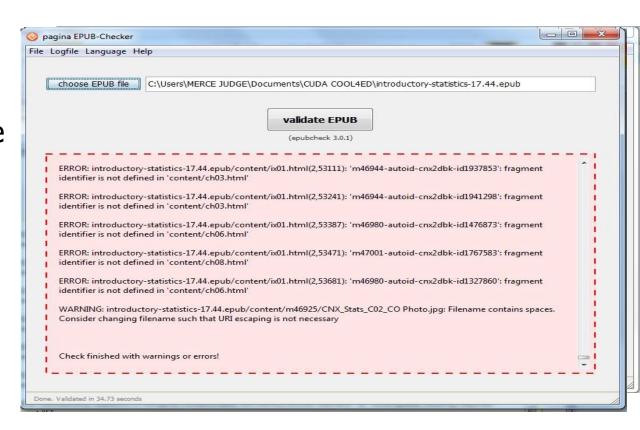
#### 11. Images

#### **STEPS:**

- 1. Open Pagina EPUB-Checker
- 2. Choose EPUB file
- 3. Click on Validate
- 4. Look for error message contains "img" or "media"

#### **Images**

- Open Pagina EPUB-Checker
- 2. Choose EPUB file
- 3. Click on Validate



#### **Images**

4. Look for error message contains "img" or "media"

```
ERROR: Intro Chem.epub/content/ch03.html(248,142): element "missing required attribute "alt"

WARNING: Intro Chem.epub/content/ch03.html(248): Token ';' not allowed here, expecting a property value

ERROR: Intro Chem.epub/content/ch03.html(256,129): element "img" missing required attribute "alt"

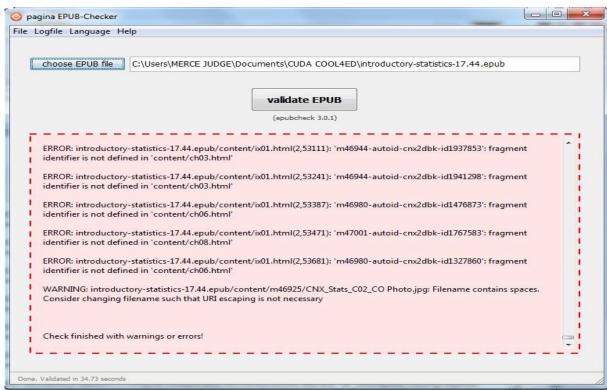
WARNING: Intro Chem.epub/content/ch03.html(256): Token ';' not allowed here, expecting a property value

ERROR: Intro Chem.epub/content/ch03.html(397,132): element "img" missing required attribute "alt"

WARNING: Intro Chem.epub/content/ch03.html(397,132): Token ';' not allowed here, expecting a property value

ERROR: Intro Chem.epub/content/ch03.html(397): Token ';' not allowed here, expecting a property value

ERROR: Intro Chem.epub/content/ch03.html(399,148): element "img" missing required attribute "alt"
```



#### **Images**

- Amount of Material to Be Evaluated
   For Complex images:
   Make sure the descriptions for the images are descriptive enough
- Rule of thumb: 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 10% 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
- Audio/video content is delivered via a media player that is compatible with assistive technology

Note: No examples have been found for this format

## 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

#### 14. STEM

STEM: Science, Technology, Engineering, and Math

STEM content is marked up in a manner that is compatible with assistive technology

#### 13. STEM

☑ 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

#### **STEM**

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

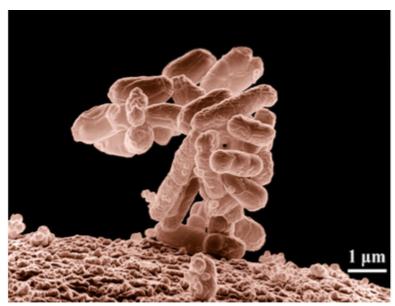


Figure 1.15 Biologists may choose to study Escherichia coli (E. coli), a bacterium that is a normal resident of our digestive tracts but which is also sometimes responsible for disease outbreaks. In this micrograph, the bacterium is visualized using a scanning electron microscope and digital colorization.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

### **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 <sub>7</sub>	20114	21703	23293	23783	25397	27106	11020	11995

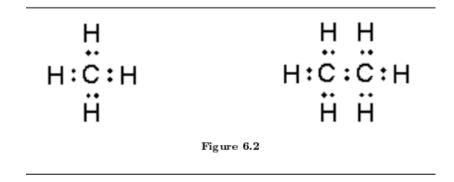


Table 4.1

# 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

(as applicable)

#### 15. Interactive Elements

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

#### 15. Interactive Elements

- 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 <u>ENTER</u> key to select a link or other item

#### 15. Interactive Elements

For navigation with assistive technologies...

#### **Interactive Elements**

- ✓ Markup
  - Each interactive element conveys information to assistive technology regarding the element's
  - ✓ name

  - ✓ status

#### **Interactive Elements**

- ✓ Text prompts
  The following are conveyed with assisstive technology:
  - ✓ Instructions
  - Prompts
  - ☑ Error messages