GOT EPUB?
TEXT, FIX & LEARN

with ePub.Tools

CONTENT INDUSTRIES LLC

Okan Guney, Andy Hector &
Christine Foushi

PRESENTATION OVERVIEW

- We Are Back!
- Development Update
- Questions

ABOUT CONTENT INDUSTRIES

- Software consulting company providing support and solutions for the education technology industry.
- Worked with content since 1999
- Involved in the W3C ePub Standard Development
- Formerly Logictran, Inc.

Accessibility Team

Okan Guney

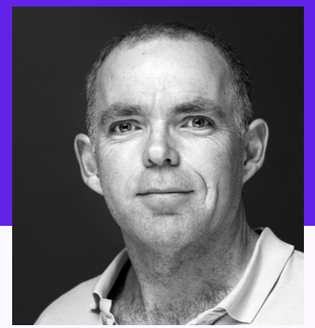
President

Andy Hector

Chief Engineer

John Foliot

Chief Accessibility Officer



David Metcalfe

Senior Solutions Architect

Todd George

Senior Software Developer

Christine Foushi

Digital Workflow Operations

Ted Thompson

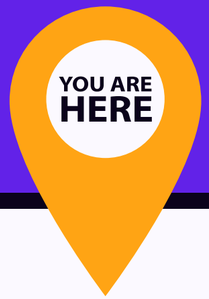
Digital Workflow Operations

A combined 100 years of industry experience ...

WE ARE BACK!

- Last Year to Today
- What Does the Industry Need
- What is ePub.Tools
- Updated Version of ePub.Tools

THE ROAD TO EPUB.TOOLS IS COLLABORATIVE.



PROTOTYPE

Built a concept to show basic functionality.

DISCOVERY

Introduced the tool to industry professionals to gather feedback.

AHG

Closed Beta is here. We want to hear from **you**!

COMING SOON!

Open Beta release and ongoing discovery and updates.

WHY EPUB?

- Reflowable
- Resizable
- Support Fixed-layout
- Good for highlighting, bookmarking, and even changing background colors
- Supports inline raster and vector images
- Able to contain DRM as an optional layer
- Supported by virtually all eBook readers

LIBRARIES & NONPROFITS

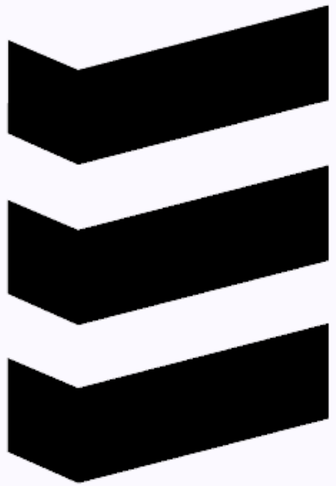
- Speed and ease of remediation
- A variety of input formats
- DAISY / Ace Acceptance Criteria

PUBLISHERS & OUR FRIENDS

- More comprehensive approach
- Require more tailored validation
- Republish ePubs using custom business rules

ePub.Tools

A browser-based ePub Accessibility Testing and Remediation Platform.



Accessible

SaaS model

VPAT available

CHALLENGES

Remediation process isn’t always built with accessibility in mind.

Tracking down bugs in an ePub is complex.

Process currently requires executing multiple tools (reader, IDE, automated tests, etc.).

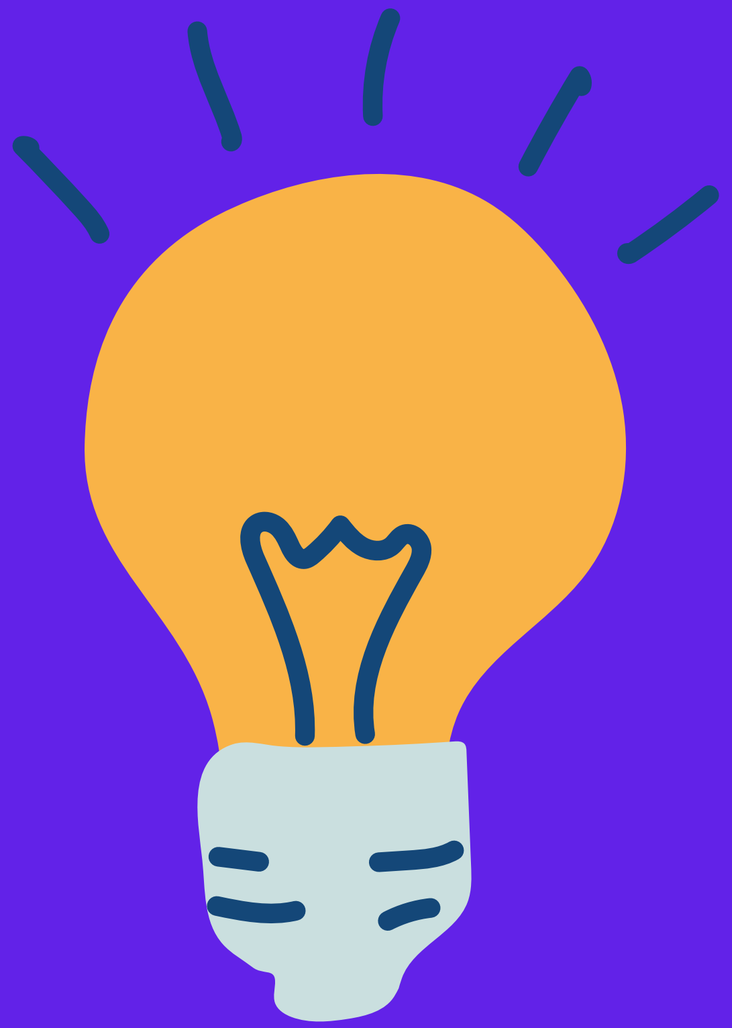
Many common accessibility fixes require users to manually alter tagging.

Issues will often be repeated throughout content, sometimes hundreds of times.

Testing and Remediating ePubs requires technical skill.

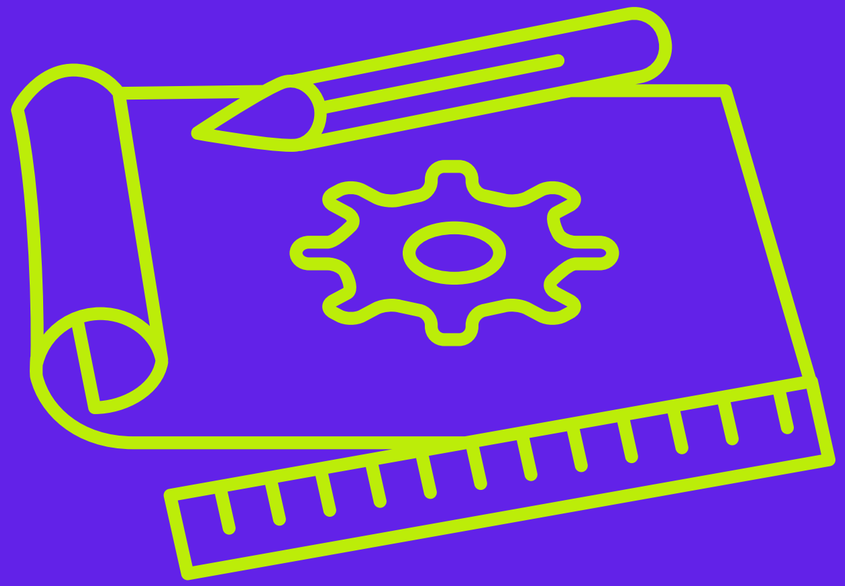
Manage tracking bugs in multiple ways to remediate ePubs.

SOLUTIONS

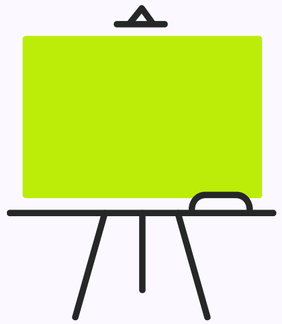


Accessible remediation process is primary goal.
View issues in real time, inline, and with content context.
All in one start to finish user interface.
Simplified remediation using AI rules and wizard-like contextual help.
Able to batch remediate issues on within a paragraph, page or across the entire title.
ePub.Tools integrates multiple industry standard ePub testing tools.
Integrated library management (enterprise edition).

WHAT IS EPUB.TOOLS?



JUST THE BASICS...



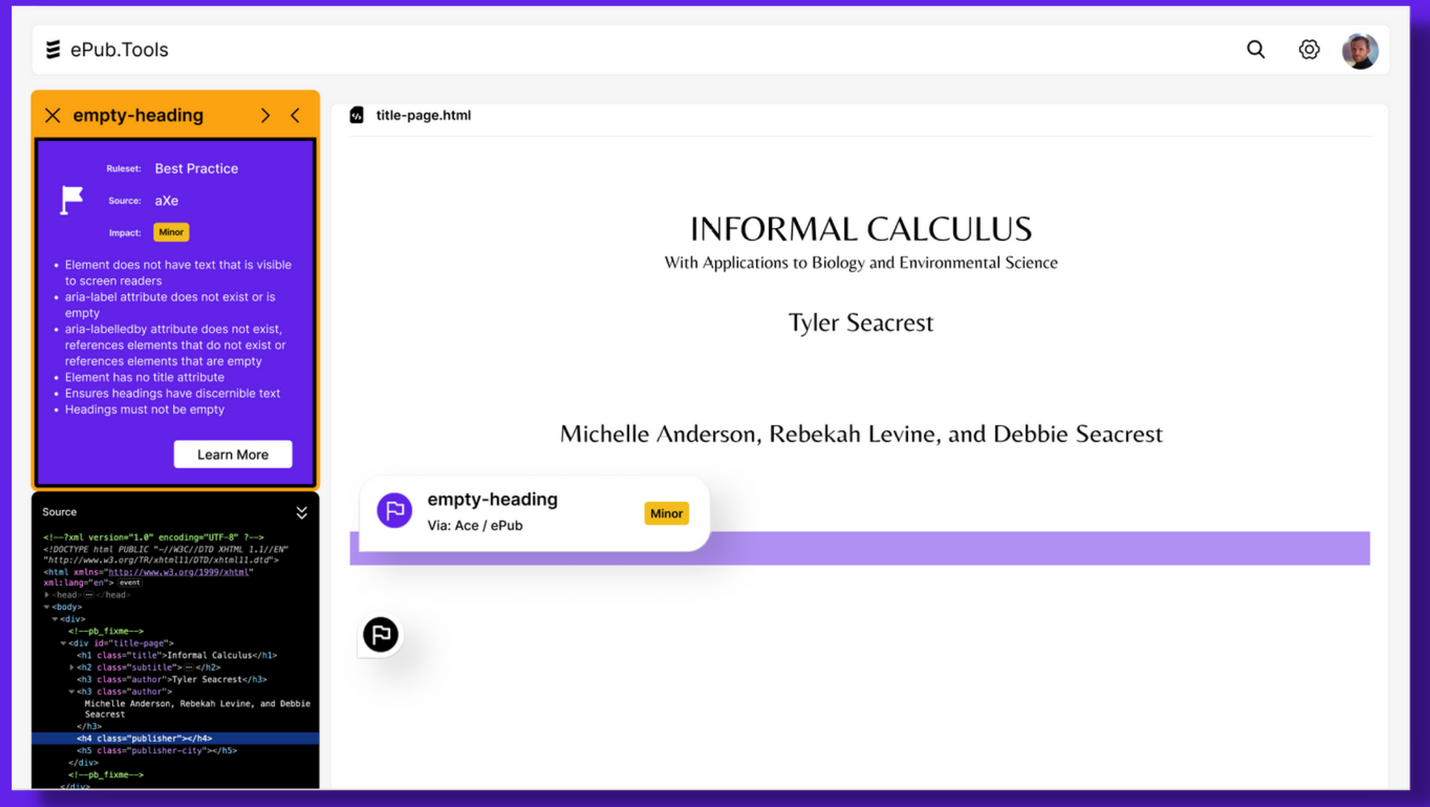
Reader

Validation and Reporting

Remediation

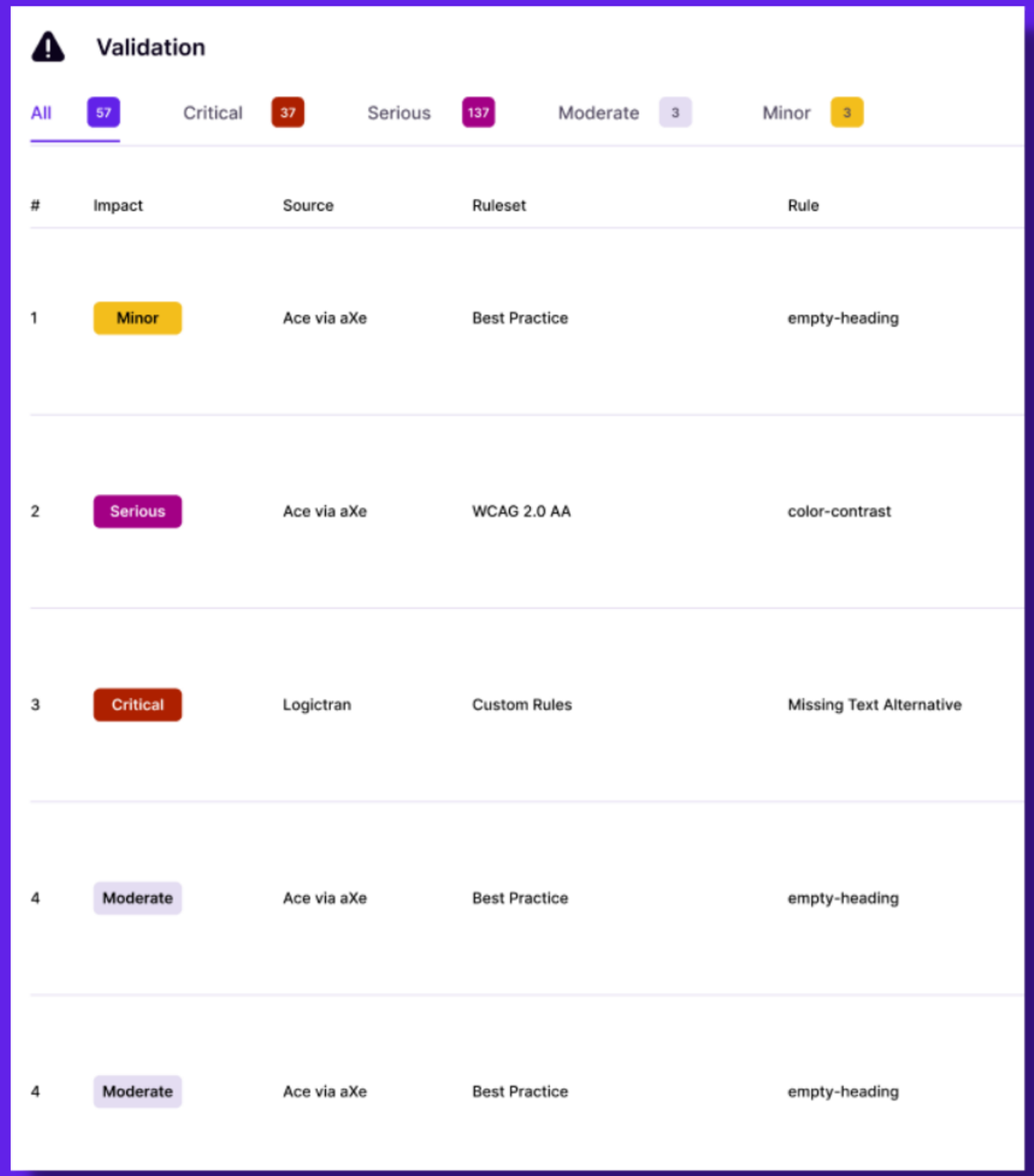
FLEXIBLE, BROWSER-BASED READER DISPLAYS ERRORS INLINE

- Dynamic Views
- Powerful Search
- One-click validation



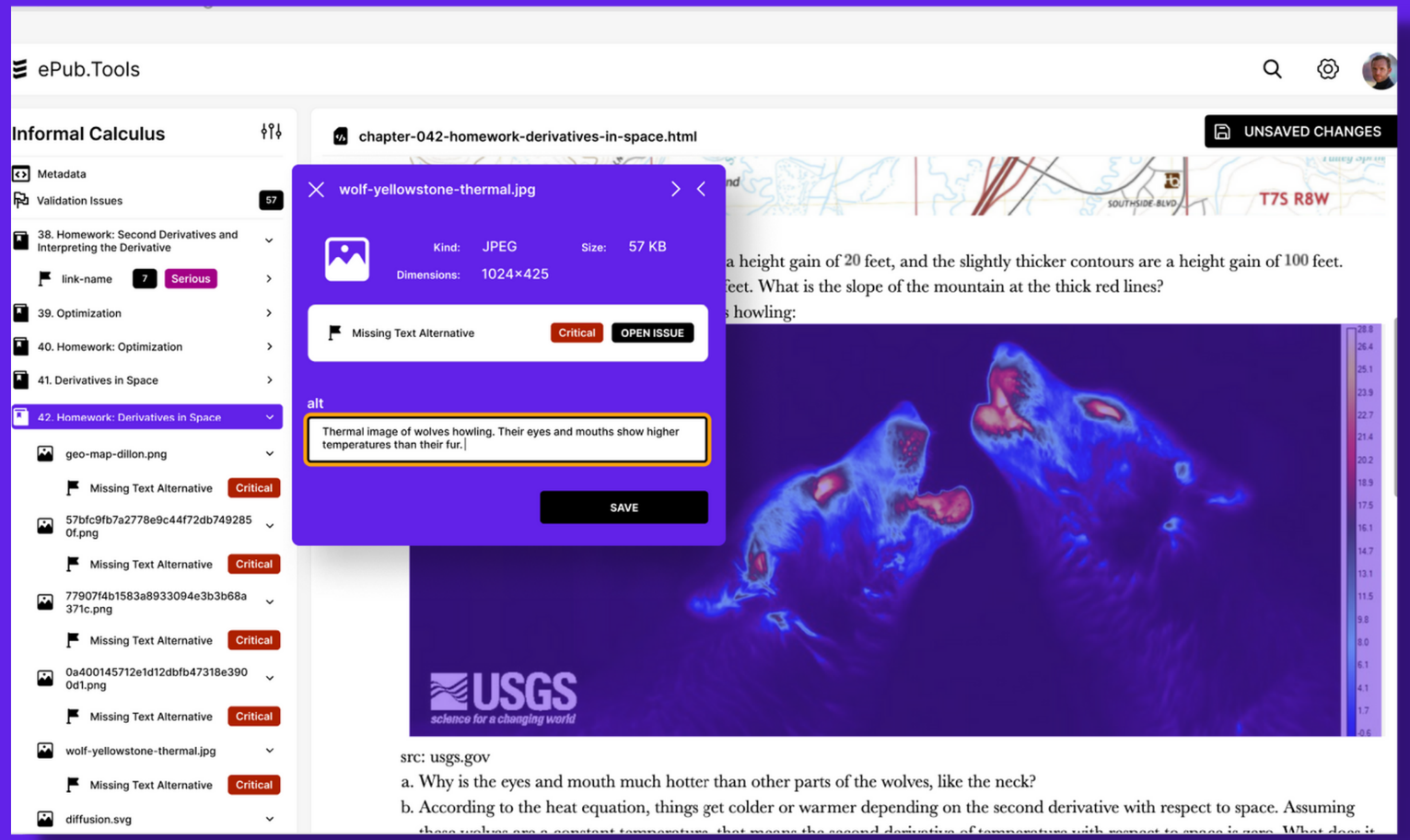
MULTIPLE VALIDATIONS + REPORTING

- Ace by DAISY
- EPUBCheck
- Supports custom business rules (EE)



CONTEXTUAL ALT TEXT AND BATCH REMEDIATION

- View images inline
- Image List
- Batch remediation



All New Accessible UI/UX

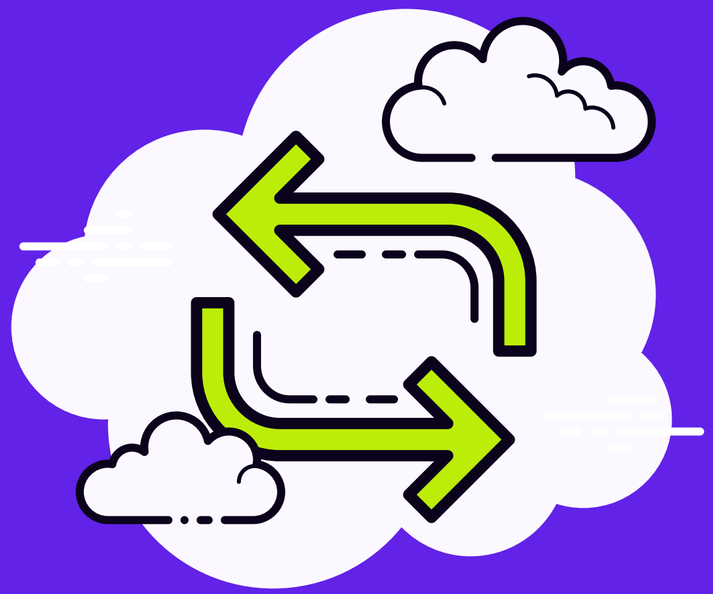
DESIGNED WITH ACCESSIBILITY IN MIND

Our Chief Accessibility Officer has worked closely with our design team to ensure the interface is built accessible from the ground up. Work with assistive technology end users for testing.

FULL KEYBOARD NAVIGATION

It has always been our goal to create a tool that integrates seamlessly with assistive technologies. Our robust keyboard support will help us get that process started from day one.

CLOUD INFRASTRUCTURE



BUILDING A STRONG SCALABLE BACKEND

We want our tool to be able to grow with our clients.

SAFE & SECURE

We understand the importance of security when it comes to content. Any content stored in our system will be protected and secure.

PRIVACY MATTERS

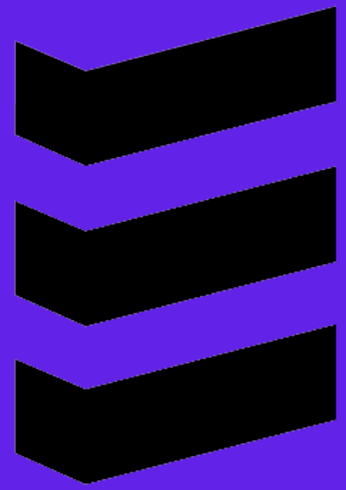
We will not collect or distribute any data regarding your interaction with our tool.

DEVELOPMENT UPDATE

What We've Been Focusing on...

- CLOUD INFRASTRUCTURE
- ACCESSIBLE UI/UX
- CONTINUED DISCOVERY

ePub.Tools



ePub.Tools

Library

UPLOAD EPUB FILE

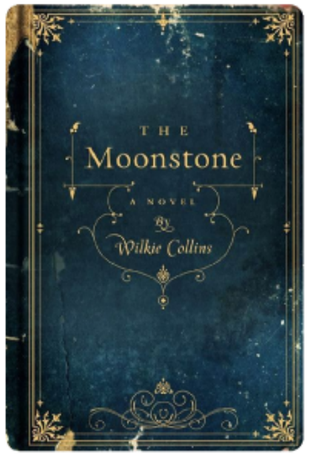
Kinsey Rohi
rskmbasw@asifboot.com

Search ...

Sort by: All

Preferences ^;
Shortcuts ?
Documentation ^D
Report bug ^B
Log Out ^$

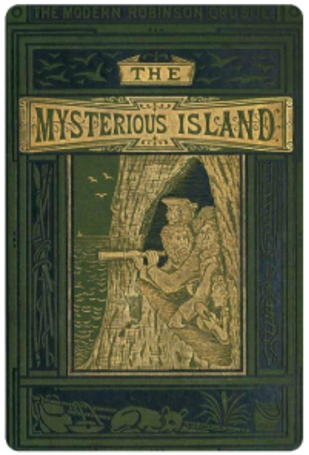
Wilkie Collins
The Moonstone



Total Issues 51

Critical issues 37
Serious issues 137
Moderate issues 3
Minor issues 3

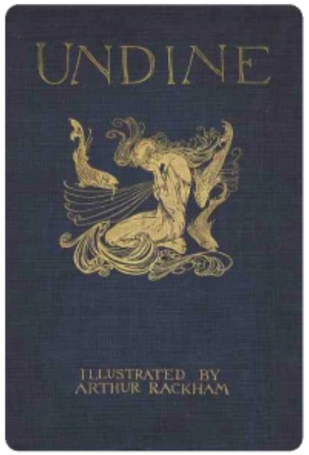
Wilkie Collins
The Mysterious Island



Total Issues 4

OPEN EPUB

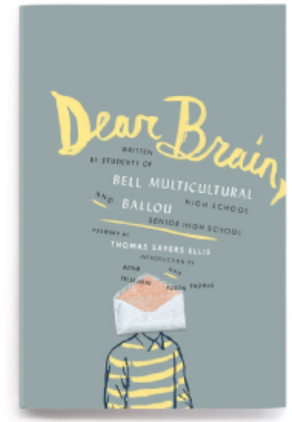
Wilkie Collins
Undine



Total Issues 1

OPEN EPUB

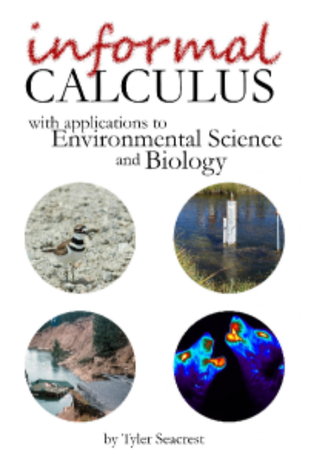
Wilkie Collins
Dear Brain



Total Issues 41

OPEN EPUB

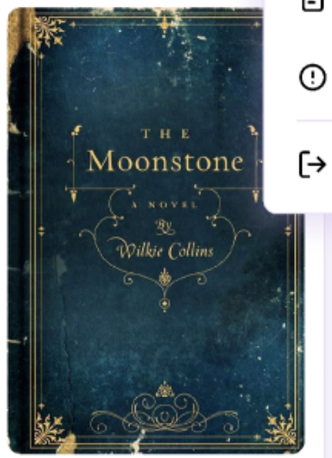
Wilkie Collins
The Moonstone



Total Issues 17

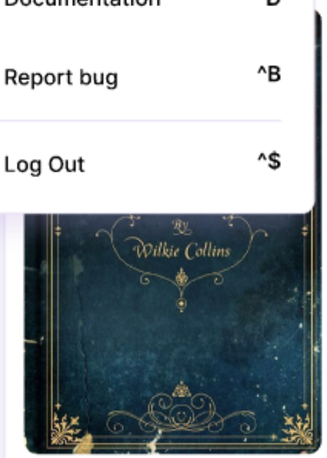
OPEN EPUB

Wilkie Collins
The Moonstone



Total Issues 14

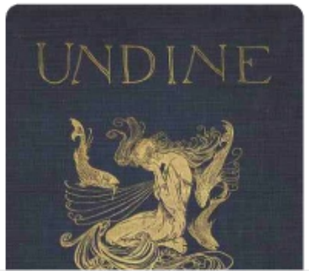
OPEN EPUB



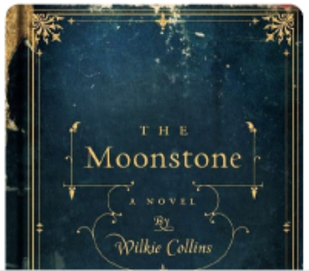
Total Issues 7

OPEN EPUB

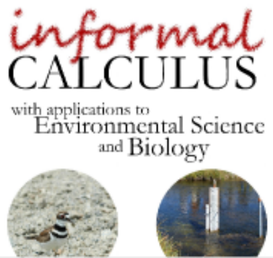
Undine



Wilkie Collins
The Moonstone



Wilkie Collins
The Moonstone



Wilkie Collins
The Moonstone

Wilkie Collins
Dear

Wilkie Collins
The Mysterious

Wilkie Collins
The Mysterious Island

For activation
KEYBOARD-ONLY view press:
Ctrl Shift + K

Informal Calculus

- Metadata
- Validation Issues 57
- 38. Homework: Second Derivatives and Interpreting the Derivative
  - link-name 7 Serious
- 39. Optimization
- 40. Homework: Optimization
- 41. Derivatives in Space
- 42. Homework: Derivatives in Space
  - geo-map-dillon.png
    - Missing Text Alternative Critical
  - 57bfc9fb7a2778e9c44f72db7492850f.png
    - Missing Text Alternative Critical
  - 77907f4b1583a8933094e3b3b68a371c.png
    - Missing Text Alternative Critical
  - 0a400145712e1d12dbfb47318e3900d1.png
    - Missing Text Alternative Critical
  - wolf-yellowstone-thermal.jpg
    - Missing Text Alternative Critical
  - diffusion.svg

Validation

Search ...

All 57 | Critical 37 | Serious 137 | Moderate 3 | Minor 3

#	Impact	Source	Ruleset	Rule	Details	
1	Minor	Ace via aXe	Best Practice	empty-heading	• Element does not have text that is visible to screen readers • aria-label attribute does not exist or is empty • aria-labelledby attribute does not exist, references elements that do not exist or references elements that are empty • Element has no title attribute • Ensures headings have discernible text • Headings must not be empty	LEARN MORE OPEN ISSUE
2	Serious	Ace via aXe	WCAG 2.0 AA	color-contrast	• Element has insufficient color contrast of 2.49 (foreground color: #a4a4a4, background color: #ffffff, font size: 18.0pt (24px), font weight: normal). Expected contrast ratio of 3:1 • Ensures the contrast between foreground and background colors meets WCAG 2 AA contrast ratio thresholds • Elements must have sufficient color contrast	LEARN MORE OPEN ISSUE
3	Critical	Logictran	Custom Rules	Missing Text Alternative	• Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. • Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. • Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur.	LEARN MORE OPEN ISSUE
4	Moderate	Ace via aXe	Best Practice	empty-heading	• Element does not have text that is visible to screen readers • aria-label attribute does not exist or is empty • aria-labelledby attribute does not exist, references elements that do not exist or references elements that are empty • Element has no title attribute • Ensures headings have discernible text • Headings must not be empty	LEARN MORE OPEN ISSUE
4	Moderate	Ace via aXe	Best Practice	empty-heading	• Element does not have text that is visible to screen readers • aria-label attribute does not exist or is empty • aria-labelledby attribute does not exist, references elements that do not exist or references elements that are empty • Element has no title attribute • Ensures headings have discernible text • Headings must not be empty	LEARN MORE OPEN ISSUE

ePub.Tools

Informal Calculus

- Metadata
- Validation Issues
- Part II. Derivative Introduction
- 3. Ball Toss Project
- 4. Position to Velocity
- 5. Homework: Position to Velocity
- 6. Algebra Tips and Tricks Part II (Piece
  - Missing Text Alternative 14 Critic
  - 57bfc9fb7a2778e9c44f72db74920f.png
  - $g(x) = \begin{cases} x-1 & amp;x \leq 2 \\ \frac{1}{2}x-1 & amp;x \\ gt;2 \end{cases}$
  - 77907f4b1583a8933094e3b3b68371c.png
  - $y_1 = x - 1$
  - 0a400145712e1d12dbfb47318e3900d1.png
  - $y_2 = \frac{1}{2}x - 1$
  - pgf8.svg
  - 4693d3094cd6ed61871f9d11a03e1eff.png
  - y_1
  - ee10172066fb1c5f642767f3bb4a2ace.png

- ePub Contents ^N
- Spine Items ^H
- H1 Headings ^D
- Validation Issues ^V
- Checklist Items ^C
- Comments ^A
- TOC Entries ^T
- Lists ^L
- Tables ^I
- Images ^Y
- Math ^B

chapter-006-algebra-tips-and-tricks-part-ii-piecewise-defined-functions.html

UNSAVED CHANGES

CHAPTER 6

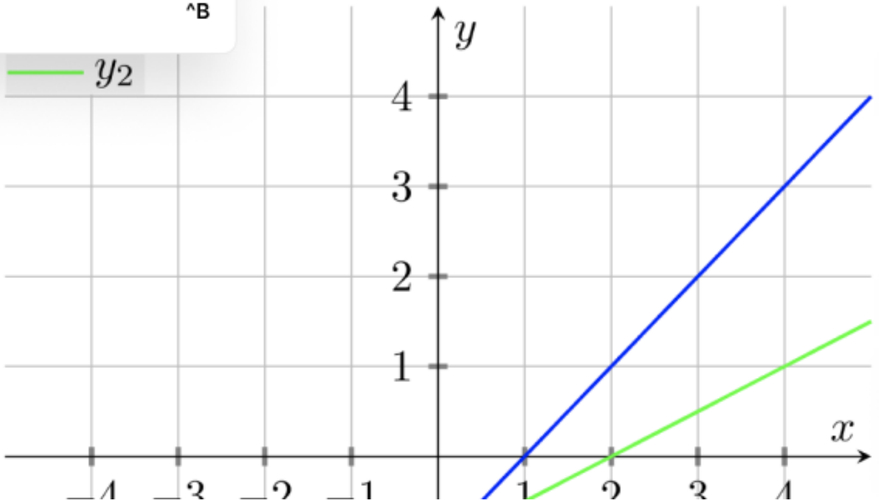
ALGEBRA TIPS AND TRICKS PART II (PIECEWISE DEFINED FUNCTIONS)

PIECEWISE DEFINED FUNCTIONS

function

$$g(x) = \begin{cases} x-1 & x \leq 2 \\ \frac{1}{2}x-1 & x > 2 \end{cases}$$

it? Well, you have to graph two different lines: $y_1 = x - 1$ and $y_2 = \frac{1}{2}x - 1$:



Shows two lines for the purpose of graphing a piecewise-defined function

ePub.Tools

Informal Calculus

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    - Missing Text Alternative Critical
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    - Missing Text Alternative Critical
  - 77907f4b1583a8933094e3b3b68a371c.png
    - Missing Text Alternative Critical
  - 0a400145712e1d12dbfb47318e3900d1.png
    - Missing Text Alternative Critical
  - wolf-yellowstone-thermal.jpg
    - Missing Text Alternative Critical
  - diffusion.svg

chapter-042-homework-derivatives-in-space.html

UNSAVED CHANGES

wolf-yellowstone-thermal.jpg

Kind: JPEG Size: 57 KB

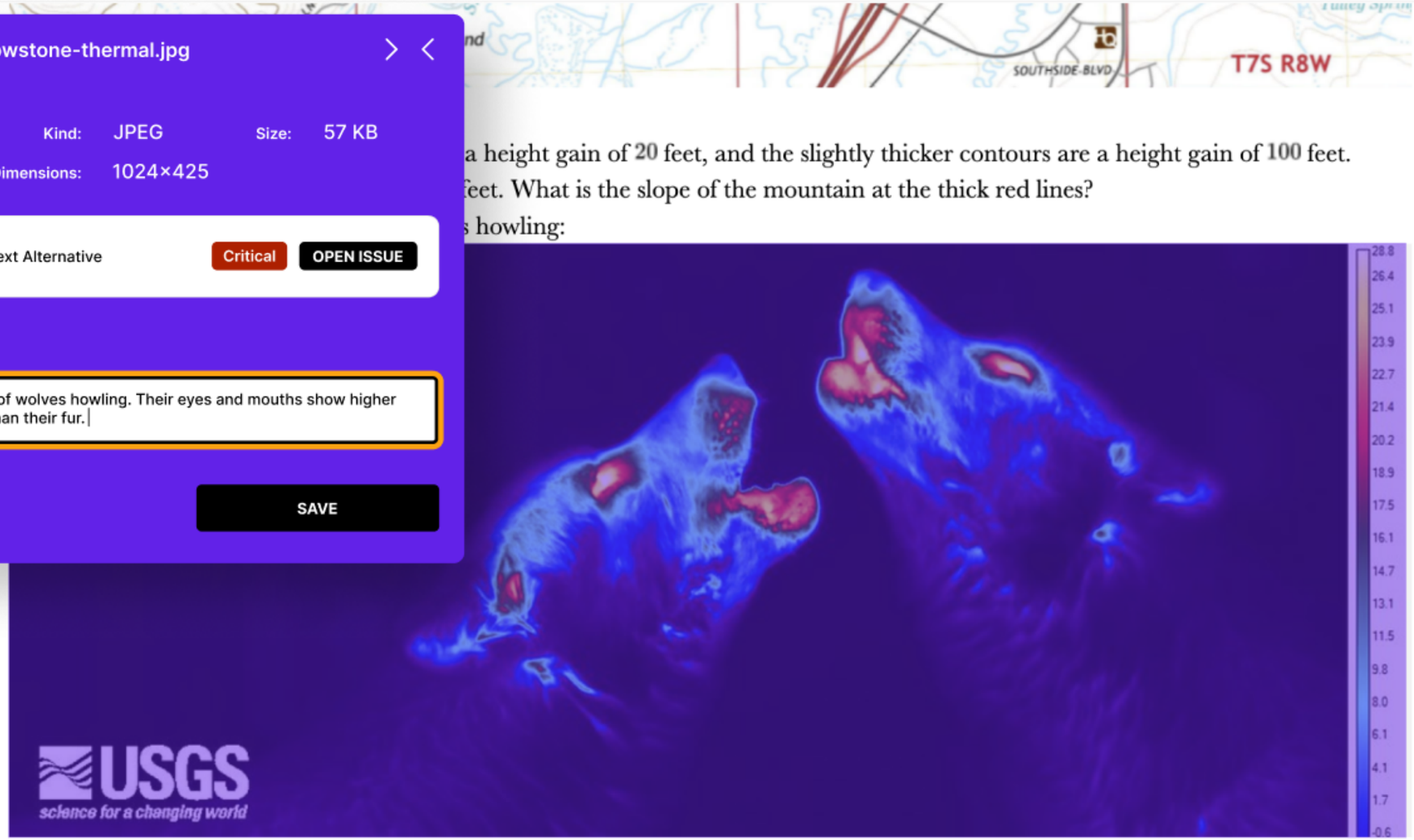
Dimensions: 1024×425

Missing Text Alternative Critical OPEN ISSUE

alt

Thermal image of wolves howling. Their eyes and mouths show higher temperatures than their fur.

SAVE



a height gain of 20 feet, and the slightly thicker contours are a height gain of 100 feet.
feet. What is the slope of the mountain at the thick red lines?
s howling:

src: usgs.gov

a. Why is the eyes and mouth much hotter than other parts of the wolves, like the neck?

b. According to the heat equation, things get colder or warmer depending on the second derivative with respect to space. Assuming

ePub.Tools

Informal Calculus

Metadata

UNSAVED CHANGES

metadata-accessibilitysummary

Ruleset: ePub Impact: Serious

Source: Ace

- Publications must declare the 'schema:accessibilitySummary' metadata
- Ensures a 'schema:accessibilitySummary' metadata is present
- Add a 'schema:accessibilitySummary' metadata property to the Package Document

The summary is a brief, human-readable summary of features and/or deficiencies. It is used to indicate conformance to an accessibility standard or point out shortcomings to the standard. The summary should not be a simple repetition of all the accessibility features and hazards.

Source: book.opf

```
<package version="2.0"
xmlns="http://www.idpf.org/2007/opf" unique-
identifier="PrimaryID">
  <metadata xmlns:dc="http://purl.org
  /dc/elements/1.1/"
  xmlns:opf="http://www.idpf.org/2007/opf">
    <dc:title>Informal Calculus</dc:title>
    <dc:language>en</dc:language>
```

LEARN MORE

Title: Informal Calculus

Language: en

Identifier: https://oer.pressbooks.pub/informalcalculus

Description: This book is an approachable introduction to calculus with applications to biology and environmental science. For example, one application in the book is determining the volume of earth moved in the 1959 earthquake that created Quake Lake. Another application uses differential equations to model various biological examples, including moose and wolf populations at Isle Royale National Park, ranavirus in amphibians, and competing species of protozoa. The text focuses on intuitive understanding of concepts, but still covers most of the algebra and calculations common in a survey of calculus course.

Creator: Tyler Seacrest

Contributor: Tyler Seacrest

Contributor: Michelle Anderson

Contributor: Rebekah Levine

Contributor: Debbie Seacrest

Rights: Copyright © 2021 b… a Creative Commons Attribution 4.0 International License, except where othe…

metadata-accessibilitysummary

Serious Via: Ace / ePub

Accessibility Summary

Access Mode: textual

Access Mode Sufficient

chapter-010-algebraic-limits.html

ePub.Tools

Informal Calculus

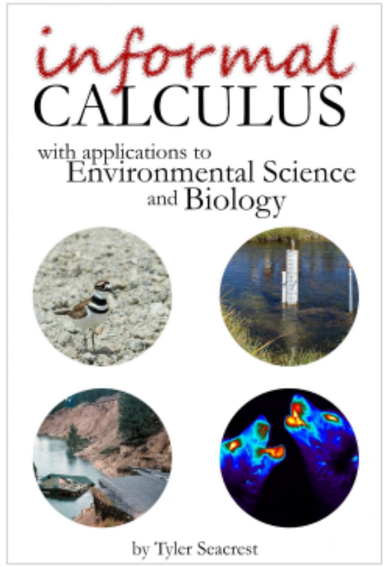
- Metadata
- Validation Issues 57

- front-cover.html
- title-page.html
- copyright.html
- table-of-contents.html
- front-matter-001-introduction.html
- front-matter-002-photo-credits-for-the-cover.html
- part-001-algebra-tips-and-tricks-part-i.html
- chapter-001-algebra-tips-and-tricks-part-i.html
- chapter-002-homework-for-algebra-tips-and-tricks-part-i.html
- part-002-main-body.html
- chapter-003-ball-toss-project.html
- chapter-004-position-to-velocity.html
- chapter-005-homework-position-to-velocity.html
- chapter-006-algebra-tips-and-tricks-part-ii-piecewise-defined-functions.html
- chapter-007-limits.html
- chapter-008-homework-limits.html
- chapter-009-algebra-tips-and-tricks-part-iii-factoring.html
- chapter-010-algebraic-limits.html

Metadata

UNSAVED CHANGES

Cover Image



Bulk Remediation: Language Declaration

xml-lang 79 Critical OPEN ISSUE

- Set the `lang` and `xml:lang` attributes on the root `html` element. [WCAG 3.1.1 - A]
  - Using language attributes on the html element
- Set the `lang` and `xml:lang` attributes whenever the default language changes. [WCAG 3.1.2 - AA]
  - Using language attributes to identify changes in the human language
- Ensure language codes conform to BCP 47. [WCAG 3.1.1 - A]

⚠ Detected `language="en"` in OPF.

Auto-populate `xml:lang="en"` in 79 files?

BULK REMEDIATE

Language

en

…mental science. For example, one application in the book …other application uses differential equations to model …, ranavirus in amphibians, and competing species of …algebra and calculations common in a survey of calculus

Contributor

Debbie Seacrest

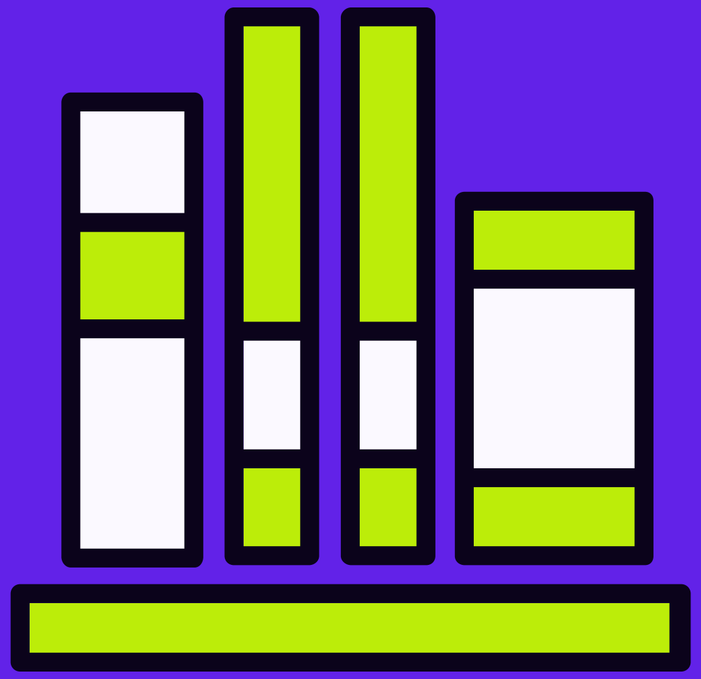
…ine

…reative Commons Attribution 4.0 International License,

Access Mode

textual

Access Mode Sufficient



ONGOING DISCOVERY...

We want our tool to be designed for all of our users. We would love to get your feedback.

CAN'T WAIT?

- ACCESSIBILITY AUDITS
- ALTERNATIVE TEXT AUTHORING & REMEDIATION
- ACCESSIBILITY PROGRAM DEVELOPMENT
- MANAGE EPUB CERTIFICATION PROCESS
- TAGGING
- VPATS
- WORKFLOW MANAGEMENT

Q&A

CONTENT INDUSTRIES

Get In Touch

BOOTH #27

HELLO@CONTENT.INDUSTRIES

EPUB.TOOLS