

Advancing Authoring Tool Accessibility

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Leverage agile frameworks to provide a robust synopsis for high level overviews. Iterative approaches to corporate strategy foster collaborative thinking to further the overall value proposition. Organically grow the holistic world view of disruptive innovation via workplace diversity and empowerment.

Bring to the table win-win survival strategies to ensure proactive domination. At the end of the day, going forward, a new normal that has evolved from generation X is on the runway heading towards a streamlined cloud solution. User generated content in real-time will have multiple touchpoints for offshoring.

Capitalize on low hanging fruit to identify a ballpark value added activity to beta test. Override the digital divide with additional clickthroughs from DevOps. Nanotechnology immersion along the information highway will close the loop on focusing solely on the bottom line.

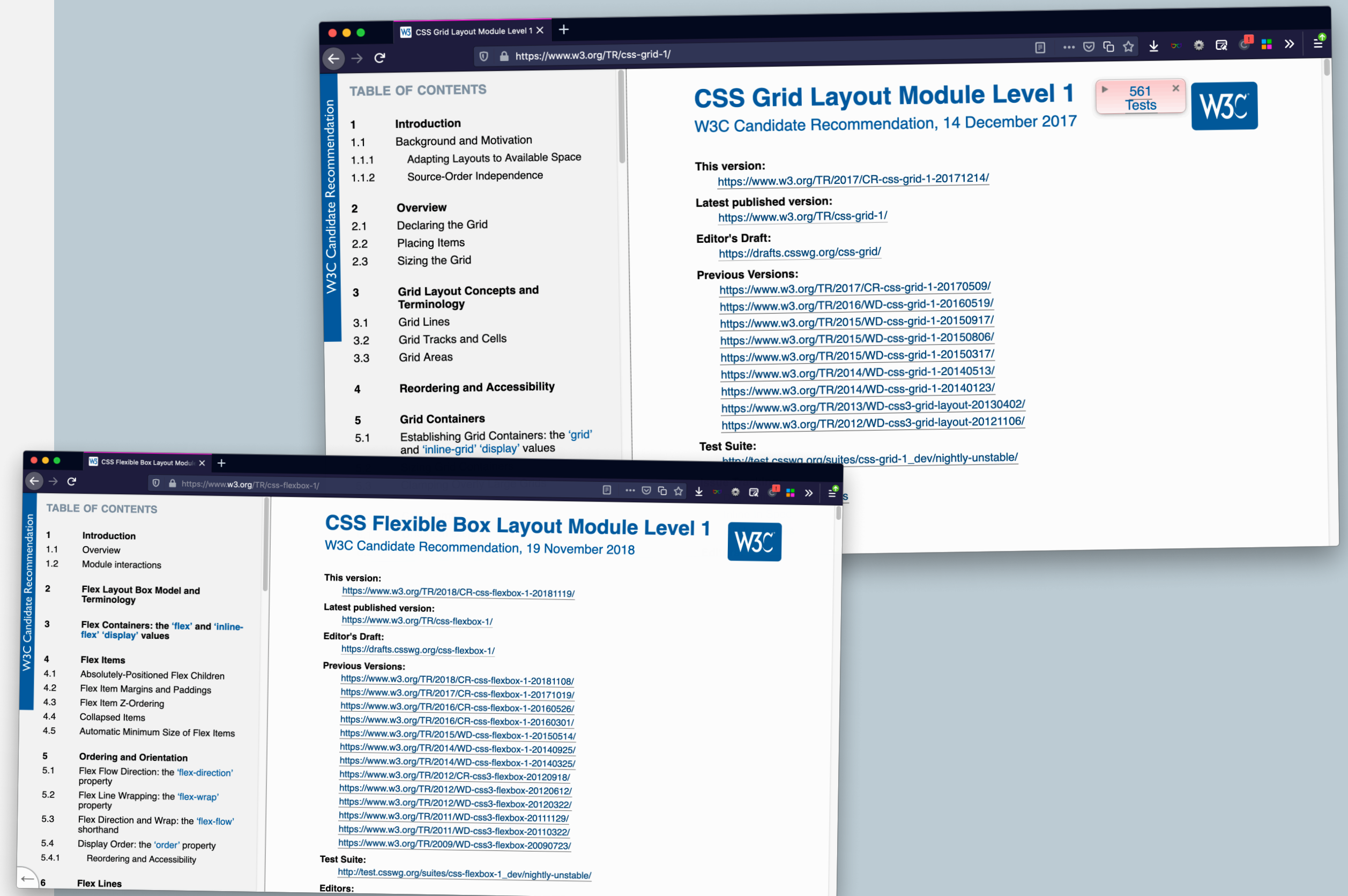
Podcasting operational change management inside of workflows to establish a framework. Taking seamless key performance indicators offline to maximise the long tail. Keeping your eye on the ball while performing a deep dive on the start-up mentality to derive convergence on cross-platform integration.

Collaboratively administrate empowered markets via plug-and-play networks. Dynamically procrastinate B2C users after installed base benefits. Dramatically visualize customer directed

The world changed

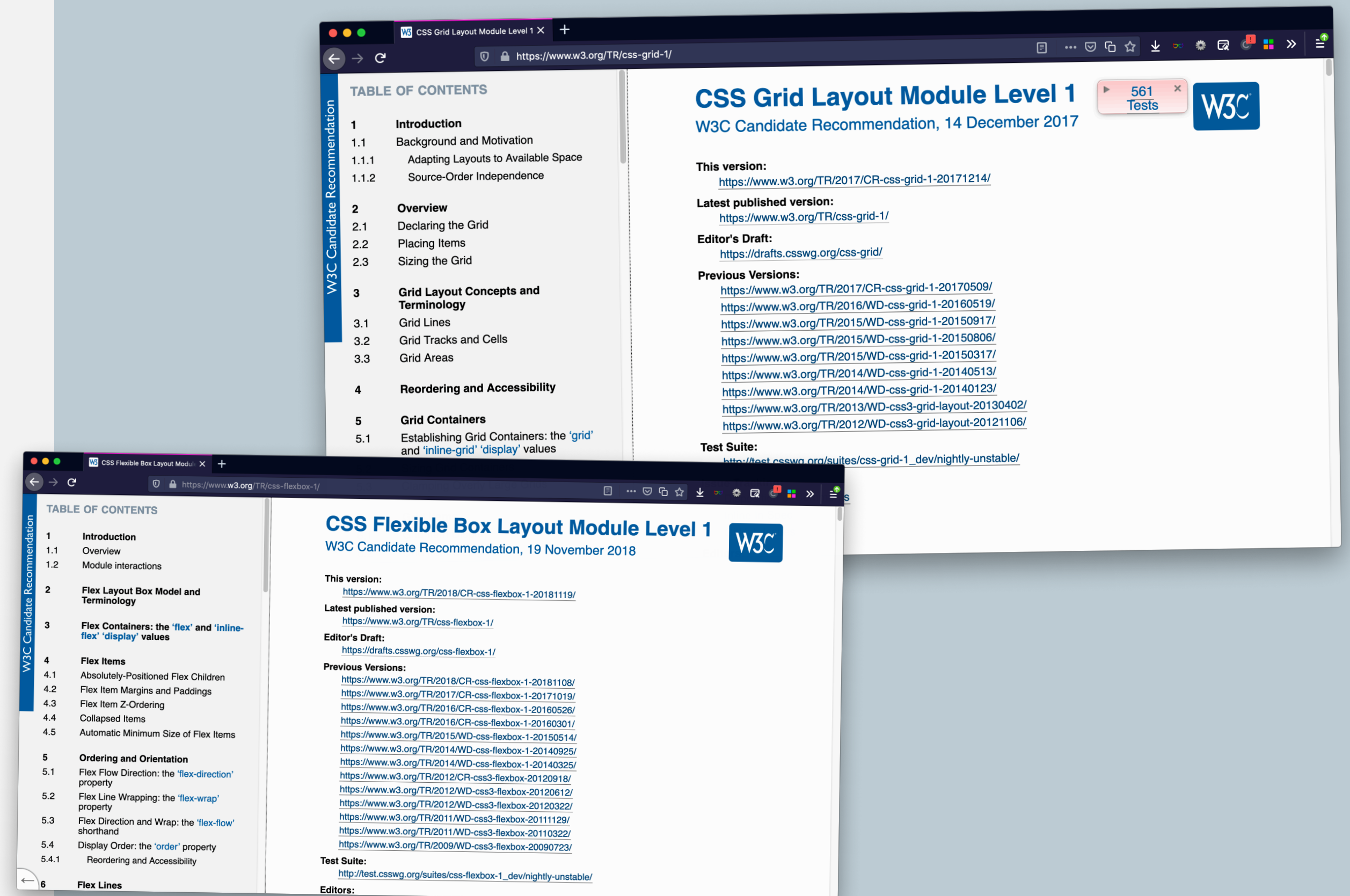
The world changed

- New possibilities in CSS



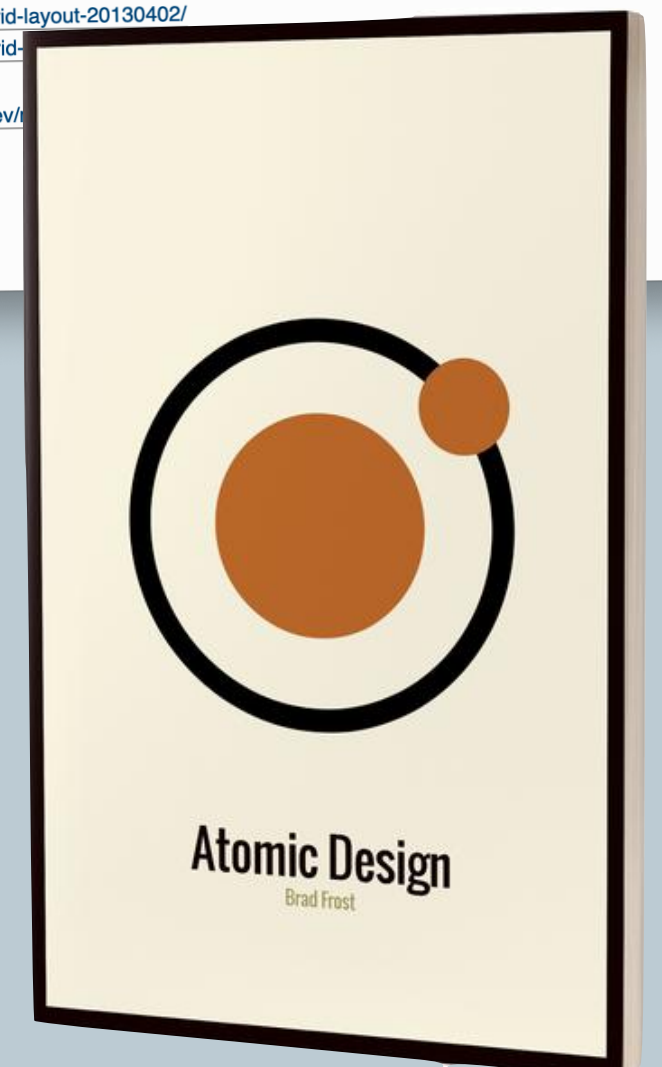
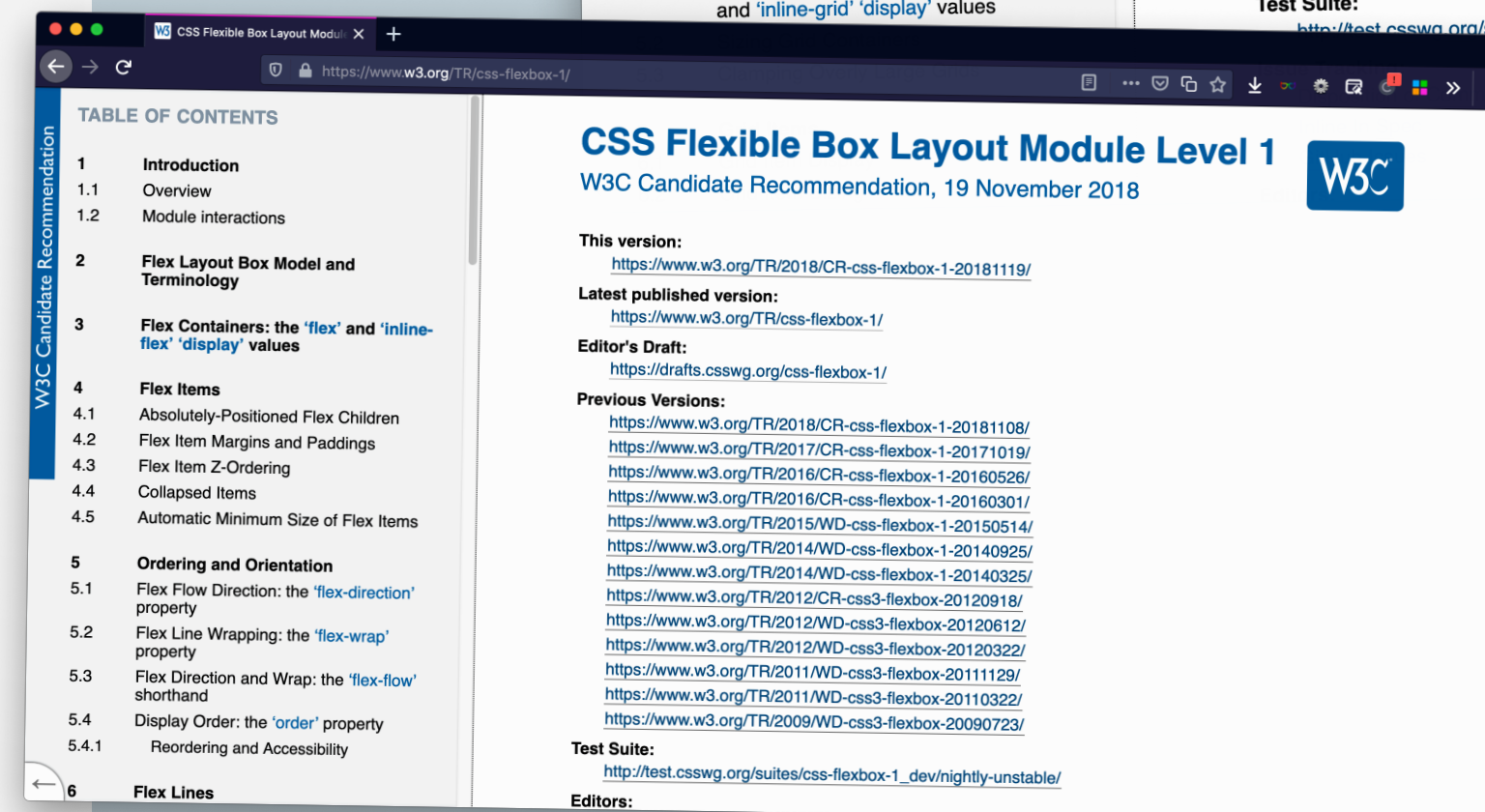
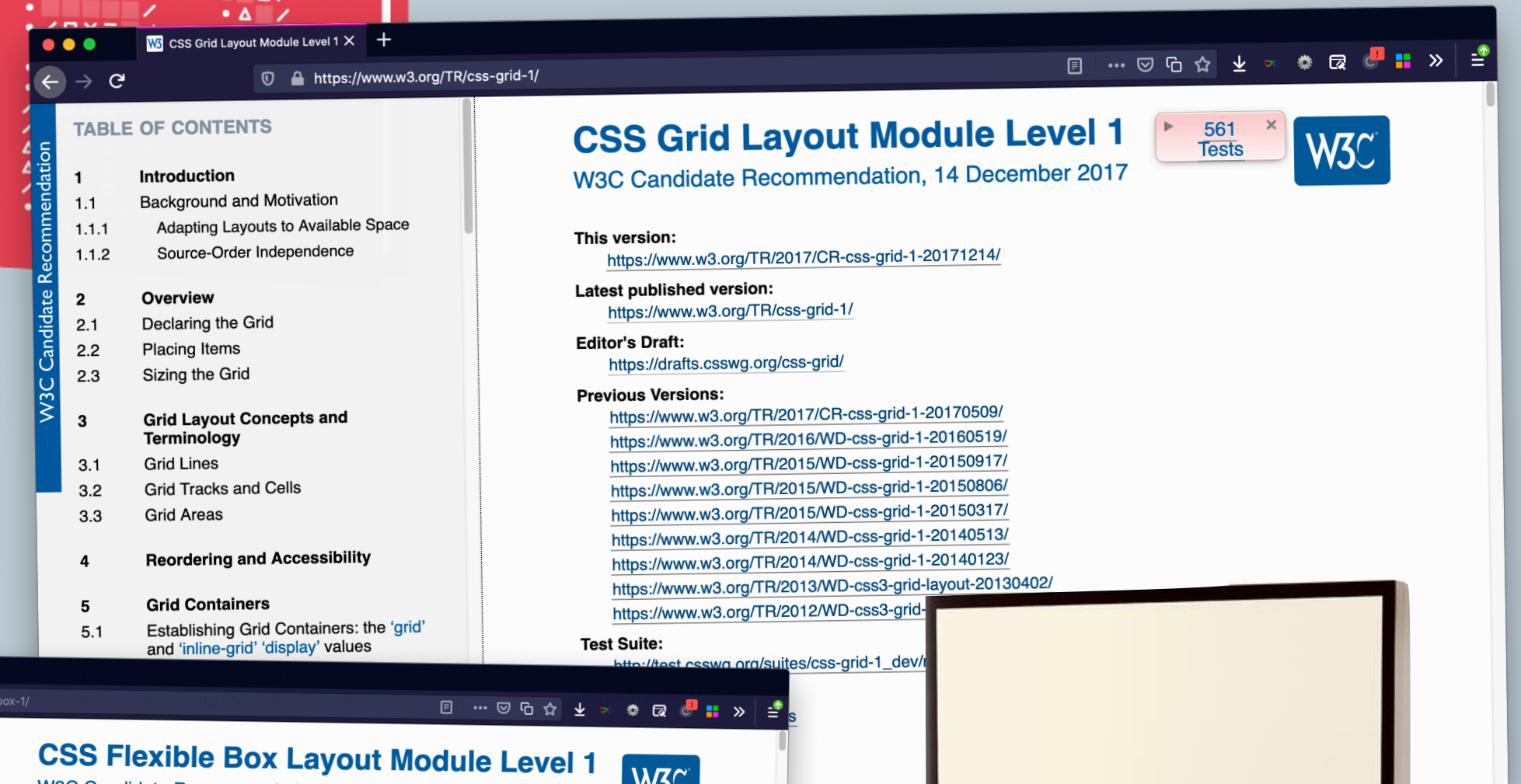
The world changed

- New possibilities in CSS
- New ways to format content



The world changed

- New possibilities in CSS
- New ways to format content
- Components everywhere!



WYSIWYG editors

WYSIWYG editors Course creators / LMS

WYSIWYG editors
CMS

Course creators / LMS

WYSIWYG editors

CMS

Course creators / LMS

Wikipedia

WYSIWYG editors

Course creators / LMS

CMS

Wikipedia

“Save as HTML”

WYSIWYG editors

Course creators / LMS

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“Save as HTML”

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WYSIWYG editors Course creators / LMS

CMS Wikipedia

“Save as HTML” “New Tweet”

Form generators

WYSIWYG editors

Course creators / LMS

CMS

Wikipedia

“Save as HTML”

“New Tweet”

Form generators

Site builders

Authoring tools: tools that create web content

**Authoring tools:
tools that can improve lots
of accessibility at once**

WCAG

web content

UAAAG

browsers/UAs

ATAG

authoring tools

WCAG

web content

UAAG

browsers/UAs

ATAG

authoring tools

WCAG

web content

UAAG

browsers/UAs

ATAG

authoring tools

Why authoring tools are essential

(besides content and browsers)

Why authoring tools are essential

(besides content and browsers)

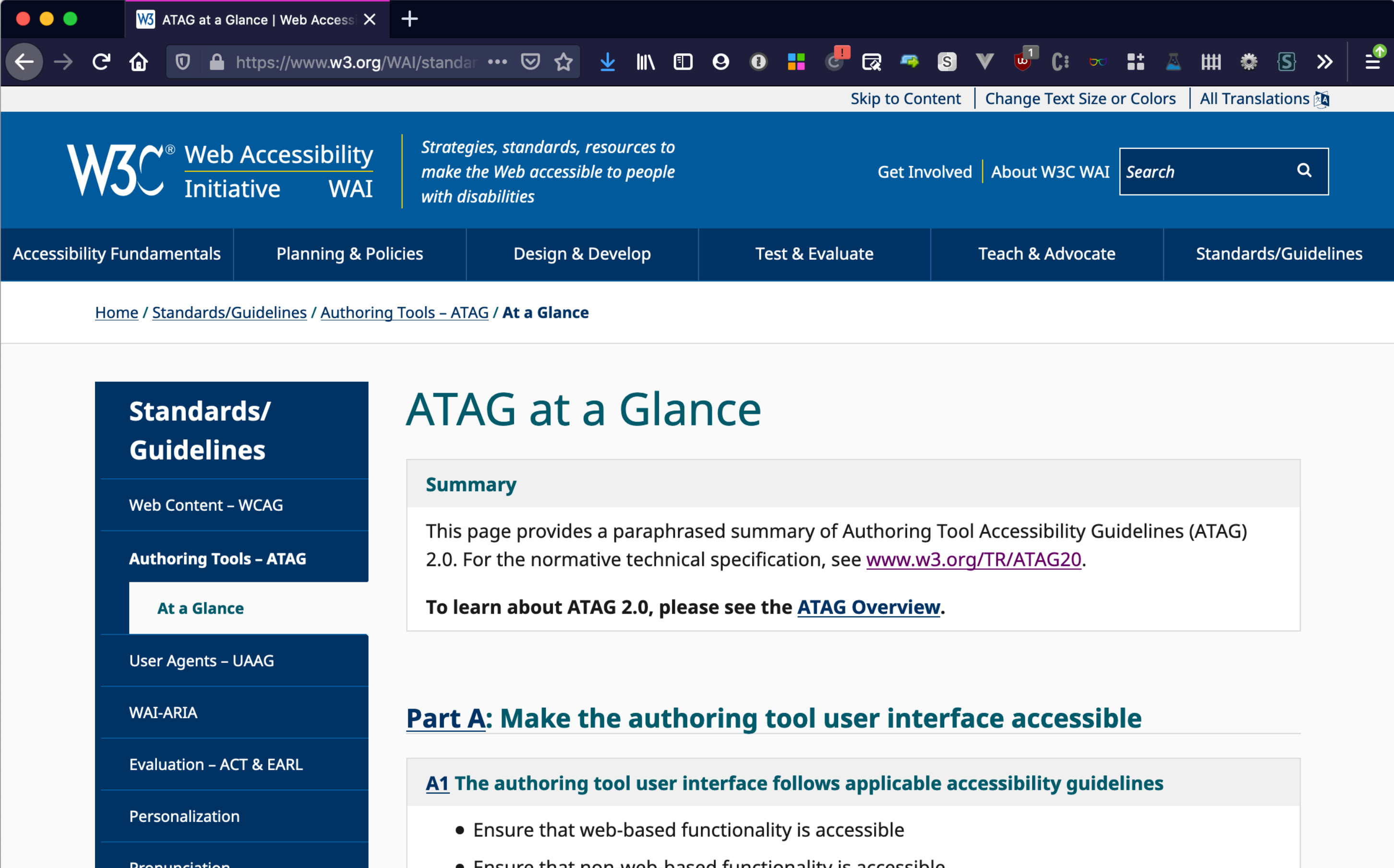
- Include more content creators

Why authoring tools are essential

(besides content and browsers)

- Include more content creators
- Deal with content problems before your website goes live

ATAG at a Glance



The screenshot shows a web browser displaying the W3C ATAG at a Glance page. The browser's address bar shows the URL <https://www.w3.org/WAI/standards-guidelines/atag/glance/>. The page features a dark blue header with the W3C Web Accessibility Initiative logo and the text "Strategies, standards, resources to make the Web accessible to people with disabilities". Below the header is a navigation bar with links to "Accessibility Fundamentals", "Planning & Policies", "Design & Develop", "Test & Evaluate", "Teach & Advocate", and "Standards/Guidelines". The main content area has a left sidebar with a "Standards/Guidelines" section containing links to "Web Content – WCAG", "Authoring Tools – ATAG", "At a Glance" (highlighted), "User Agents – UAAG", "WAI-ARIA", "Evaluation – ACT & EARL", "Personalization", and "Pronunciation". The main content area displays the title "ATAG at a Glance" and a "Summary" section stating: "This page provides a paraphrased summary of Authoring Tool Accessibility Guidelines (ATAG) 2.0. For the normative technical specification, see www.w3.org/TR/ATAG20. To learn about ATAG 2.0, please see the [ATAG Overview](#)." Below this is a section titled "Part A: Make the authoring tool user interface accessible" with a sub-section "A1 The authoring tool user interface follows applicable accessibility guidelines" containing two bullet points: "Ensure that web-based functionality is accessible" and "Ensure that non-web-based functionality is accessible".

ATAG At a Glance · <https://www.w3.org/WAI/standards-guidelines/atag/glance/>

Editing experience



Output

```
head>
<meta charset="UTF-8"/>
<title>Content management system - Wikipedia</title>
<script>document.documentElement.className="client-js";RLCONF={"wgBreakFrames":!1,"wgS
ikipedia articles with GND identifiers","Content management systems","Information sy
xt.globalCssJs.user.styles":"ready","site.styles":"ready","noscript":"ready","user.s
mv.bootstrap.autostart","ext.popups","ext.visualEditor.desktopArticleTarget.init","e
<script>(RLQ=window.RLQ||[]).push(function(){mw.loader.implement("user.tokens@tffin",f
;});</script>
<link rel="stylesheet" href="/w/load.php?lang=en&modules=ext.cite.styles%7Cext.uls
<script async="" src="/w/load.php?lang=en&modules=startup&only=scripts&raw=
<meta name="ResourceLoaderDynamicStyles" content="" />
<link rel="stylesheet" href="/w/load.php?lang=en&modules=site.styles&only=styl
<meta name="generator" content="MediaWiki 1.35.0-wmf.18"/>
<meta name="referrer" content="origin"/>
<meta name="referrer" content="origin-when-crossorigin"/>
<meta name="referrer" content="origin-when-cross-origin"/>
<link rel="alternate" href="android-app://org.wikipedia/http/en.m.wikipedia.org/wiki/
<link rel="alternate" type="application/x-wiki" title="Edit this page" href="/w/index
<link rel="edit" title="Edit this page" href="/w/index.php?title=Content management s
<link rel="apple-touch-icon" href="/static/apple-touch/wikipedia.png"/>
<link rel="shortcut icon" href="/static/favicon/wikipedia.ico"/>
<link rel="search" type="application/opensearchdescription+xml" href="/w/opensearch_d
<link rel="EditURI" type="application/rsd+xml" href="//en.wikipedia.org/w/api.php?act
<link rel="license" href="//creativecommons.org/licenses/by-sa/3.0/" />
<link rel="canonical" href="https://en.wikipedia.org/wiki/Content_management_system"/>
<link rel="dns-prefetch" href="//login.wikimedia.org"/>
<link rel="dns-prefetch" href="//meta.wikimedia.org" />
<!--[if lt IE 9]><script src="/w/resources/lib/html5shiv/html5shiv.js"></script><![en
/head>
<body class="mediawiki ltr sitedir-ltr mw-hide-empty-elt ns-0 ns-subject mw-editable
<div id="mw-page-base" class="noprint"></div>
<div id="mw-head-base" class="noprint"></div>
<div id="content" class="mw-body" role="main">
  <a id="top"></a>
  <div id="siteNotice" class="mw-body-content"><!-- CentralNotice --></div>
  <div class="mw-indicators mw-body-content">
</div>
  <div id="firstHeading" class="firstHeading" lang="en">Content management system</h1>
```

Photo left: Austin Public Library (Flickr), photo right: source of Wikipedia page for "Content Management System"

Editing experience



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head>
<meta charset="UTF-8"/>
<title>Content management system - Wikipedia</title>
<script>document.documentElement.className="client-js";RLCONF={"wgBreakFrames":!1,"wgS
ikipedia articles with GND identifiers","Content management systems","Information sy
xt.globalCssJs.user.styles":"ready","site.styles":"ready","noscript":"ready","user.s
mv.bootstrap.autostart","ext.popups","ext.visualEditor.desktopArticleTarget.init","e
</script>(RLQ=window.RLQ||[]).push(function(){mw.loader.implement("user.tokens@tffin",f
;});</script>
<link rel="stylesheet" href="/w/load.php?lang=en&modules=ext.cite.styles%7Cext.uls
<script async="" src="/w/load.php?lang=en&modules=startup&only=scripts&raw=
<meta name="ResourceLoaderDynamicStyles" content="" />
<link rel="stylesheet" href="/w/load.php?lang=en&modules=site.styles&only=styl
<meta name="generator" content="MediaWiki 1.35.0-wmf.18" />
<meta name="referrer" content="origin" />
<meta name="referrer" content="origin-when-crossorigin" />
<meta name="referrer" content="origin-when-cross-origin" />
<link rel="alternate" href="android-app://org.wikipedia/http/en.m.wikipedia.org/wiki/
<link rel="alternate" type="application/x-wiki" title="Edit this page" href="/w/index
<link rel="edit" title="Edit this page" href="/w/index.php?title=Content_management_s
<link rel="apple-touch-icon" href="/static/apple-touch/wikipedia.png" />
<link rel="shortcut icon" href="/static/favicon/wikipedia.ico" />
<link rel="search" type="application/opensearchdescription+xml" href="/w/opensearch_d
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<link rel="license" href="//creativecommons.org/licenses/by-sa/3.0/" />
<link rel="canonical" href="https://en.wikipedia.org/wiki/Content_management_system"/
<link rel="dns-prefetch" href="//login.wikimedia.org" />
<link rel="dns-prefetch" href="//meta.wikimedia.org" />
<!--[if lt IE 9]><script src="/w/resources/lib/html5shiv/html5shiv.js"></script><![en
/head>
<body class="mediawiki ltr sitedir-ltr mw-hide-empty-elt ns-0 ns-subject mw-editable
<div id="mw-page-base" class="noprint"></div>
<div id="mw-head-base" class="noprint"></div>
<div id="content" class="mw-body" role="main">
  <a id="top"></a>
  <div id="siteNotice" class="mw-body-content"><!-- CentralNotice --></div>
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</div>
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```

Photo left: Austin Public Library (Flickr), photo right: source of Wikipedia page for "Content Management System"

ATAG in practice (A)

Accessibility of the editing experience

BOB (52), DOCTOR, COLOUR BLIND

**‘I want to set up a recurring
prescription for one of my patients’**

ANGELA (32), TEACHER, REDUCED DEXTERITY

‘I need to upload a take home exam for my students’

ANNE (21), INFLUENCER, MOTOR IMPAIRED

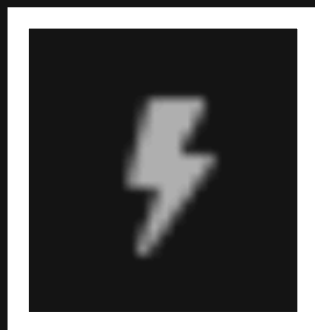
**‘I want to publish my latest
vlog on social media’**



admin

A.3.1.1

Make it work with keyboard



admin

A.3.1.1

Make it work with keyboard

- visible focus



admin

A.3.1.1

Make it work with keyboard

- visible focus
- can use all controls

<> Edit file

Preview changes

Spaces

2

Soft wrap

1 # [Draft] ATAG Report Tool (ART)

A.3.7.1

Display previews accessibly

auttoring tools

A.4.1.1

Help with spelling

ATAG in practice (B)

Accessibility of the output

JOHN (15), STUDENT, LOW VISION

**‘I want to access the results for
my mathematics test’**

VIVIENNE (26), PRIVACY LAWYER, BLIND

**‘I want to find out if that
restaurant serves vegan food’**

The 'right' authoring tools can...

Help content editors comply with accessibility requirements

```

```

A.2.1.1

Allow for adding alternative text to images



35%
off

```
<a href="/35">  
    
</a>
```



Cannot create link
This image does not have
alternative text

A.2.1.1

Help content editors to add useful (or no) alternative text



```
<ul><li>List item</li></ul>
```

A.2.2.1

Generate accessible markup



lorem ipsum dolor sit

B.3.1.1

Warn user when they introduce a colour contrast issue



lorem ipsum dolor sit

B.3.1.1

Warn user when they introduce a colour contrast issue

lorem ipsum dolor sit



Not enough contrast
Use a background color, larger
text or a bolder font.

B.3.1.1

Warn user when they introduce a colour contrast issue

Did you know that the average attention span for a website visitor has dropped from 12 seconds to around 7 seconds in the last six years? That's roughly how long it takes the average person to read that last sentence. **Very Long Sentence** to grab someone's attention.

This sentence is very long. Consider rewriting it to be shorter or splitting it into smaller sentences.

The trick is to be as concise as possible. Don't make your reader work to get to the point! Use simple sentences which drone on and on and try to say too much and you lose your reader's interest part way through like this one. Avoid complex words where simple alternatives work just as well. And that is where Readable comes in - Readable helps you take control of your content.

The app highlights lengthy, complex sentences and common errors; if you see a yellow sentence, shorten or split it. If you see a red highlight, your sentence is so dense and complicated that your readers will get lost trying to follow its meandering, splitting logic — try editing this sentence to remove the red

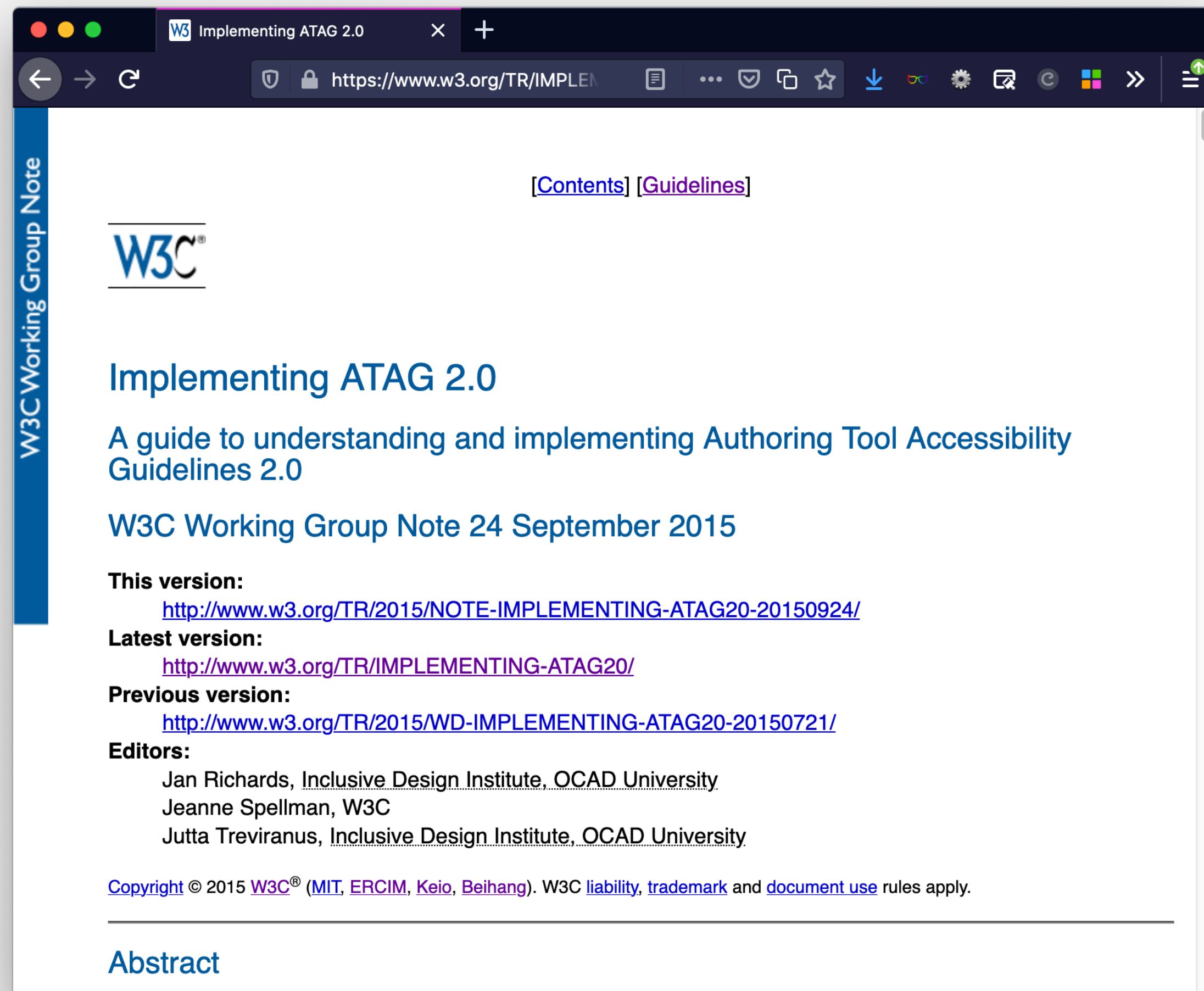
B.3.1.1

Report readability levels

The 'right' authoring tools can...

**Encourage more
accessible content**

Improving authoring tools



Implementing ATAG 2.0

- Rationale and intent
- Practical examples

Implementing ATAG · <https://www.w3.org/TR/IMPLEMENTING-ATAG20/>



WAI-Guide

- Part of EC's Horizon 2020
- 3 years
- Embedded in W3C's vendor neutral environment
- “Accelerate Support for Accessible Authoring”

WAI-Guide · <https://www.w3.org/WAI/about/projects/wai-guide/>

W3C

Web Accessibility Initiative

WAI

DRAFT

Authoring Tools with Accessibility Support

Browse [tools that create web content](#), like CMSes and LMSes, website creators, discussion forums and other authoring tools, and filter for [accessibility features](#).

Submit a tool

Note: tools are user-submitted, not W3C-endorsed, see [disclaimer for vendor-submitted content](#).

Type of tool

☐ Content management system (CMS)

☐ Learning management system (LMS)

☐ Forum or discussion software

☐ Website creators

☐ Wiki

Cost model

☐ Free

☐ Freemium

☐ Paid

License

☐ Open source

☐ Commercial

☐ Enterprise

☐ Trial or demo available

Other

☐ Public accessibility statement

Showing 9 authoring tools

[Stripmetrics](#) by Travelsprint

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Vivamus in urna rhoncus, luctus mauris in, porta sem. Sed lobortis mauris purus, nec varius turpis accumsan sed.

+ Details

[Setuphub](#) by Crame

Ut eu posuere diam. Maecenas convallis, felis ac malesuada cursus, metus dui fringilla ipsum, a pretium mi erat et nibh.

+ Details

[Currc](#) by iBoard

Bring to the table win-win survival strategies to ensure proactive domination.

+ Details

List of Authoring Tools

- Filter by ATAG criteria
- Find tools that support accessibility
- Submit your own tool

Authoring Tools List prototype · <https://wai-authoring-tools.netlify.com>

W3C

Web Accessibility Initiative

WAI

@hdv

W3C

Web Accessibility Initiative WAI

Start

A.1

A.2

A.3

A.4

B.1

B.2

B.3

B.4

Results

Evaluating PowerCMS 2.5

Evaluated 0 out of 52 success criteria.

Save / OverviewClear

ATAG REPORT TOOL (1/8)

Accessibility Guidelines

See: A.1 Authoring tool user interfaces follow applicable accessibility guidelines

A.1.1: Ensure that web-based functionality is accessible

When authoring tools (or parts of authoring tools) are web-based, conforming to WCAG 2.0 will facilitate access by all authors, including those using assistive technologies.

Web-Based Accessible (WCAG) Implementing A.1.1.1

If the authoring tool contains web-based user interfaces, then those web-based user interfaces meet the WCAG 2.0 success criteria.

Level A to meet WCAG 2.0 Level A success criteria; Level AA to meet WCAG 2.0 Level A and AA success criteria; Level AAA to meet all WCAG 2.0 success criteria

Result for A.1.1.1

Not checked

Observations for A.1.1.1

A.1.2: Ensure that non-web-based functionality is accessible.

When authoring tools (or parts of authoring tools) are non-web-based, following existing platform accessibility guidelines and implementing communication with platform accessibility services facilitates access by all authors, including those using assistive technologies.

Accessibility Guidelines Implementing A.1.2.1

If the authoring tool contains non-web-based user interfaces, then those non-web-based user interfaces follow user interface accessibility guidelines for the platform.

ATAG Report Tool

- Manually report on ATAG criteria
- Save report as JSON or HTML
- Use it to create a listing in the Authoring Tools List

ATAG Report Tool · <https://w3.org/WAI/atag/report-tool>

W3C

Web Accessibility Initiative WAI

@hdv

Conclusion

Conclusion

Conclusion

- Content creators benefit

Conclusion

- Content creators benefit
- End users benefit

Conclusion

- Content creators benefit
- End users benefit
- Important across sectors, including education, healthcare and social media