

# YOUR CMS IS AN ACCESSIBILITY ASSISTANT

Hidde de Vries, 23 March 2023, Frontend RheinMain, online

# HI, I'M HIDDE

occasional blogger +  
front-end developer +  
accessibility specialist

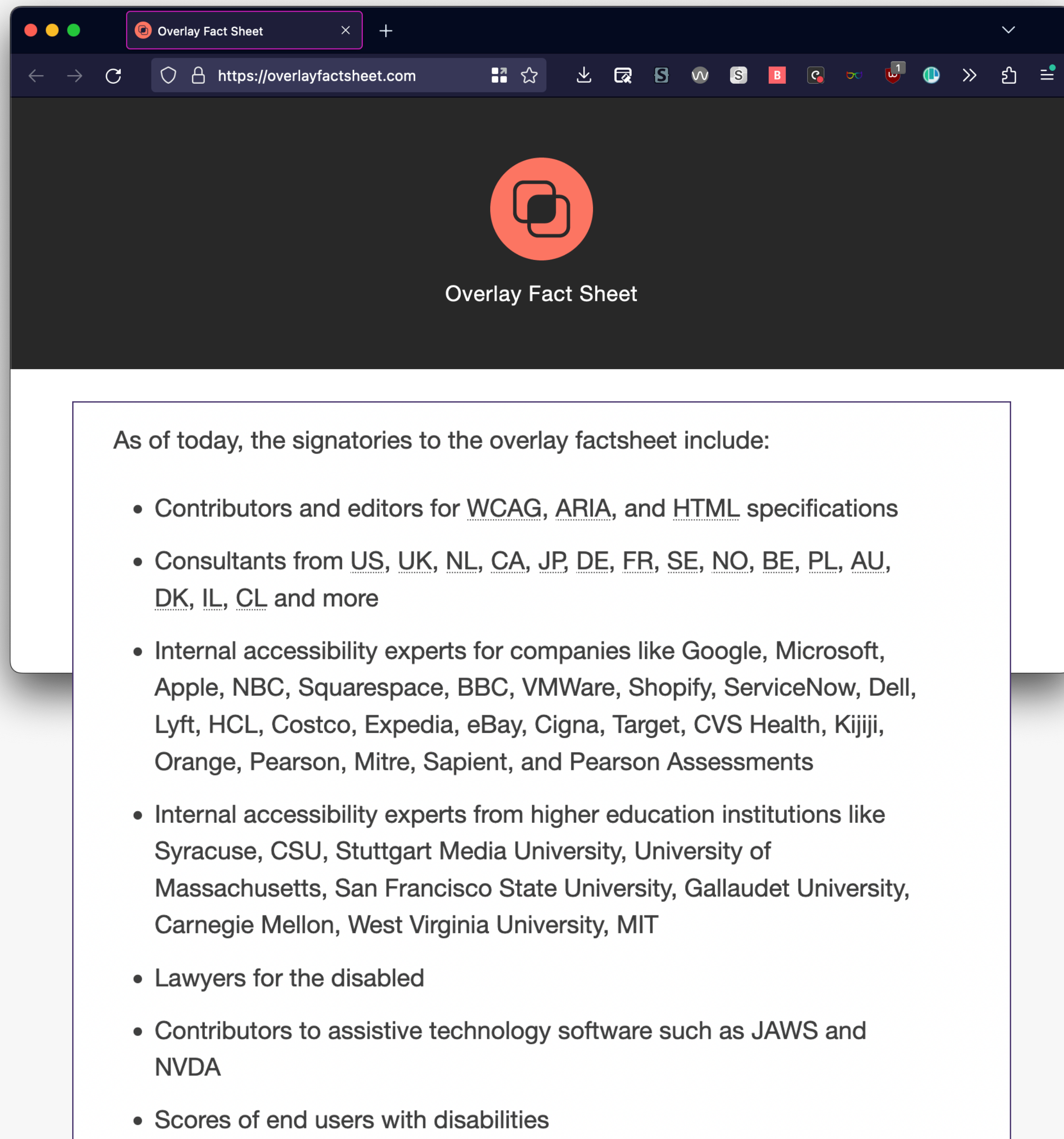
[hidde.blog](https://hidde.blog)



**“WHY ISN'T  
ACCESSIBILITY  
EASIER?”**

*–a befriended web developer*

# BUILT-IN ACCESSIBILITY



**OVERLAYS** *don't use*

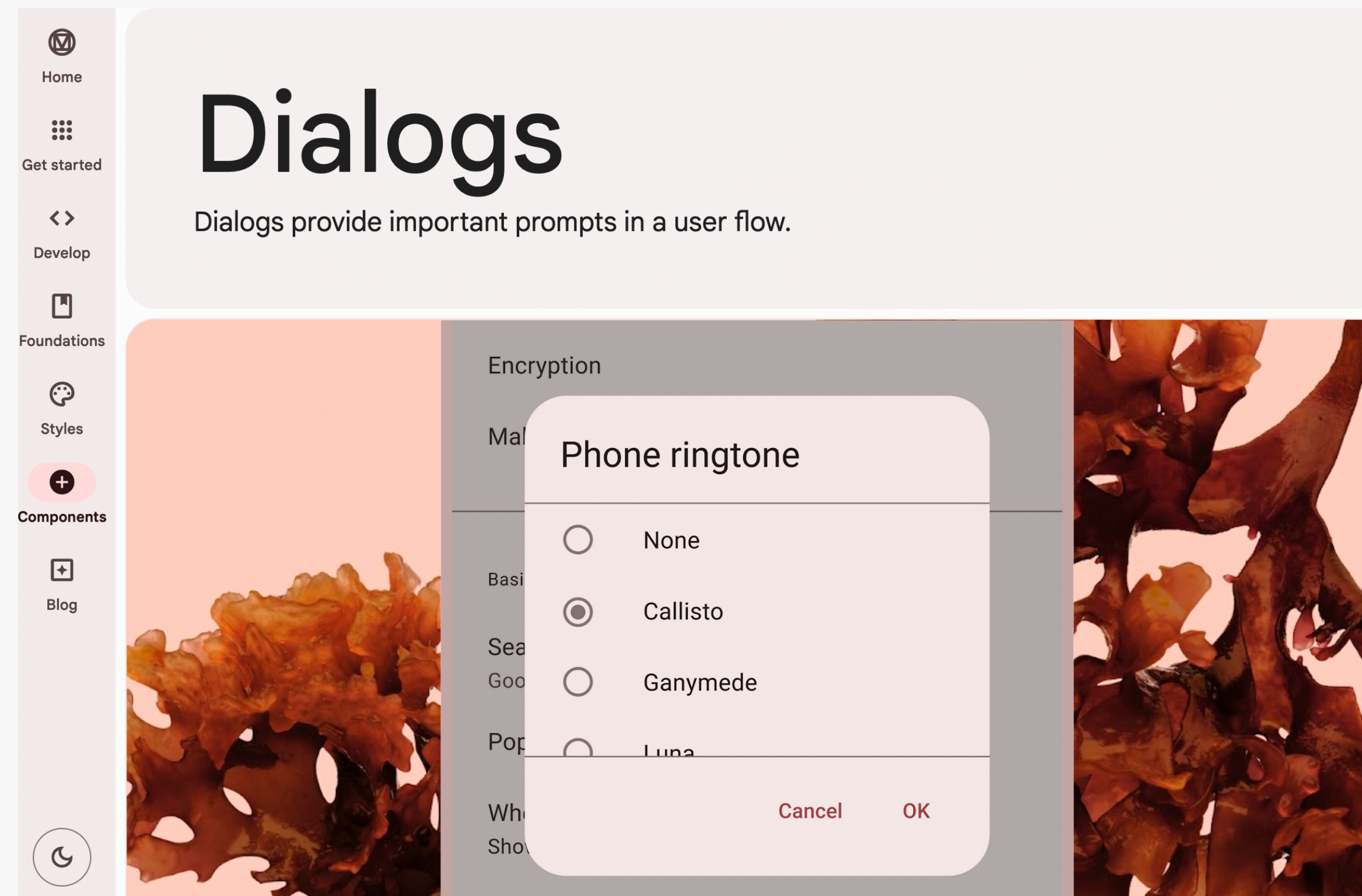
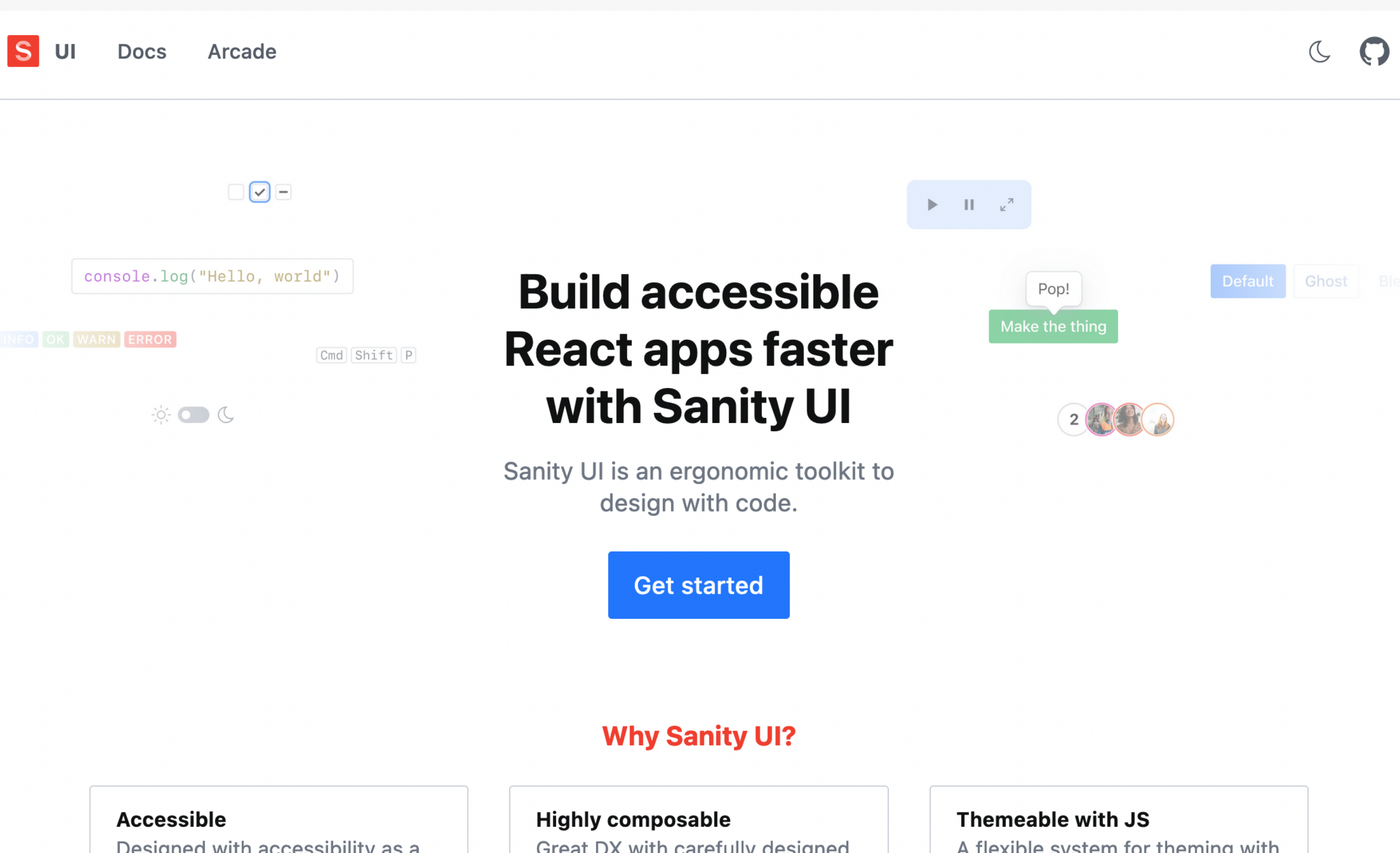
*Promise to fix accessibility in content automatically, but “ineffectiveness of overlays is something that has broad agreement among accessibility practitioners”*

<https://overlayfactsheet.com>

# DESIGN SYSTEMS

With components, we can make accessibility reusable and repeatable

Sanity UI, Material UI



# DESIGN SYSTEMS

With components, we can make accessibility reusable and repeatable

## DOCUMENT

Do's, don'ts, gotchas

The screenshot shows a design system documentation page for the 'Heading' component. On the left is a vertical navigation menu with the following items: Heading (highlighted), Inline, KBD, Label, Popover, Radio, Select, Spinner, Stack, Switch, Text, TextArea, TextInput, and Tooltip. The main content area is titled 'Properties' and contains a table of properties:

<code>as?: React.ElementType   keyof JSX.IntrinsicElements</code>
<code>size?: number   number[]</code>
<code>weight?: string</code>

Below the properties table is a section titled 'Accessibility considerations' with the following text:

Many users of assistive technologies use headings as a way to navigate ("navigate by heading" functionality). Tools like screenreaders can display a list of headings, which is [a bit like a table of contents](#).

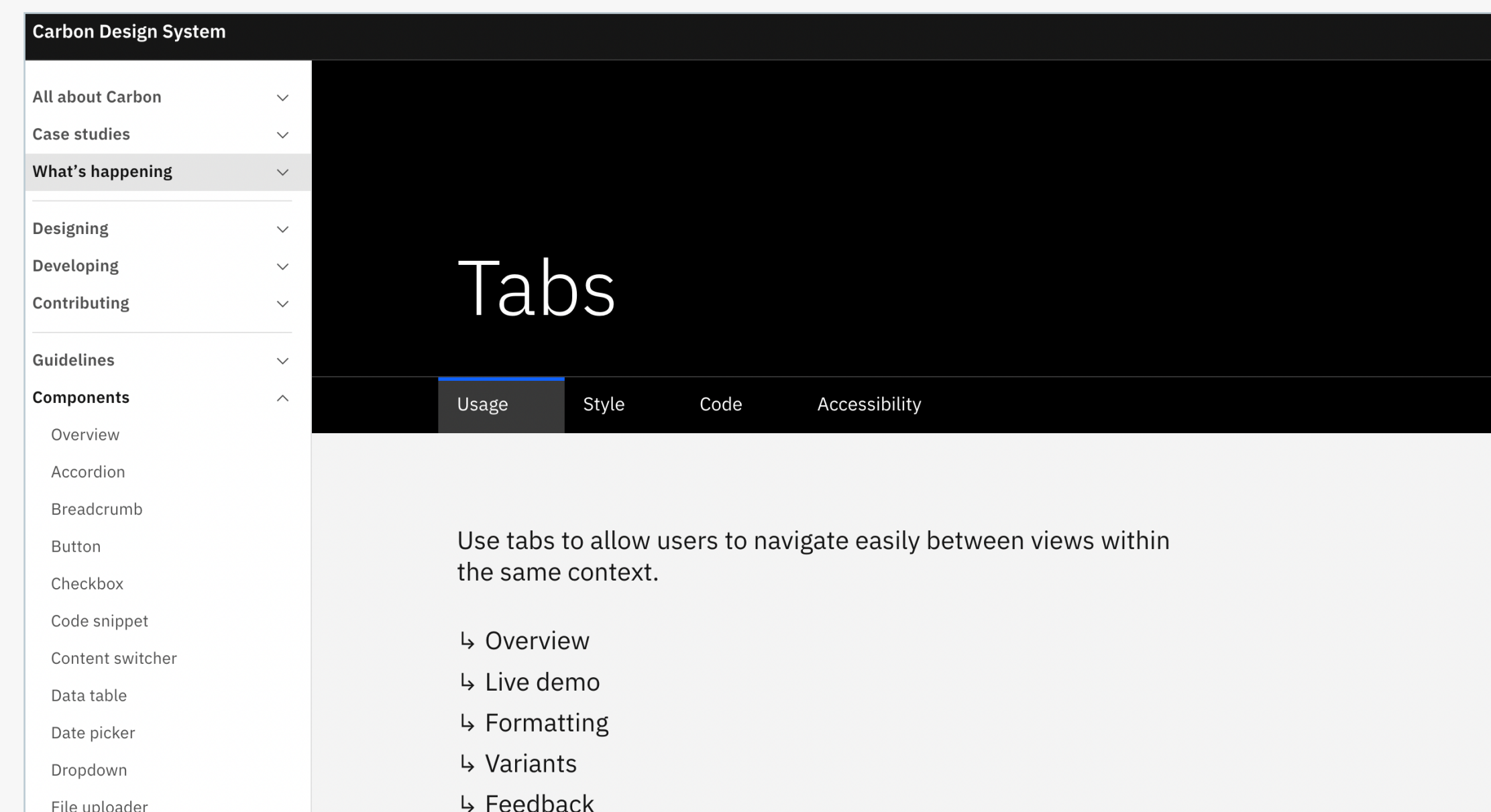
For this reason, use the `as` property with a level whenever your heading is something users might want to navigate to. This ensures your heading can be recognised as a heading.

# DESIGN SYSTEMS

With components, we can make accessibility reusable and repeatable

## COMPLEX COMPONENTS

For reuse in across front-end



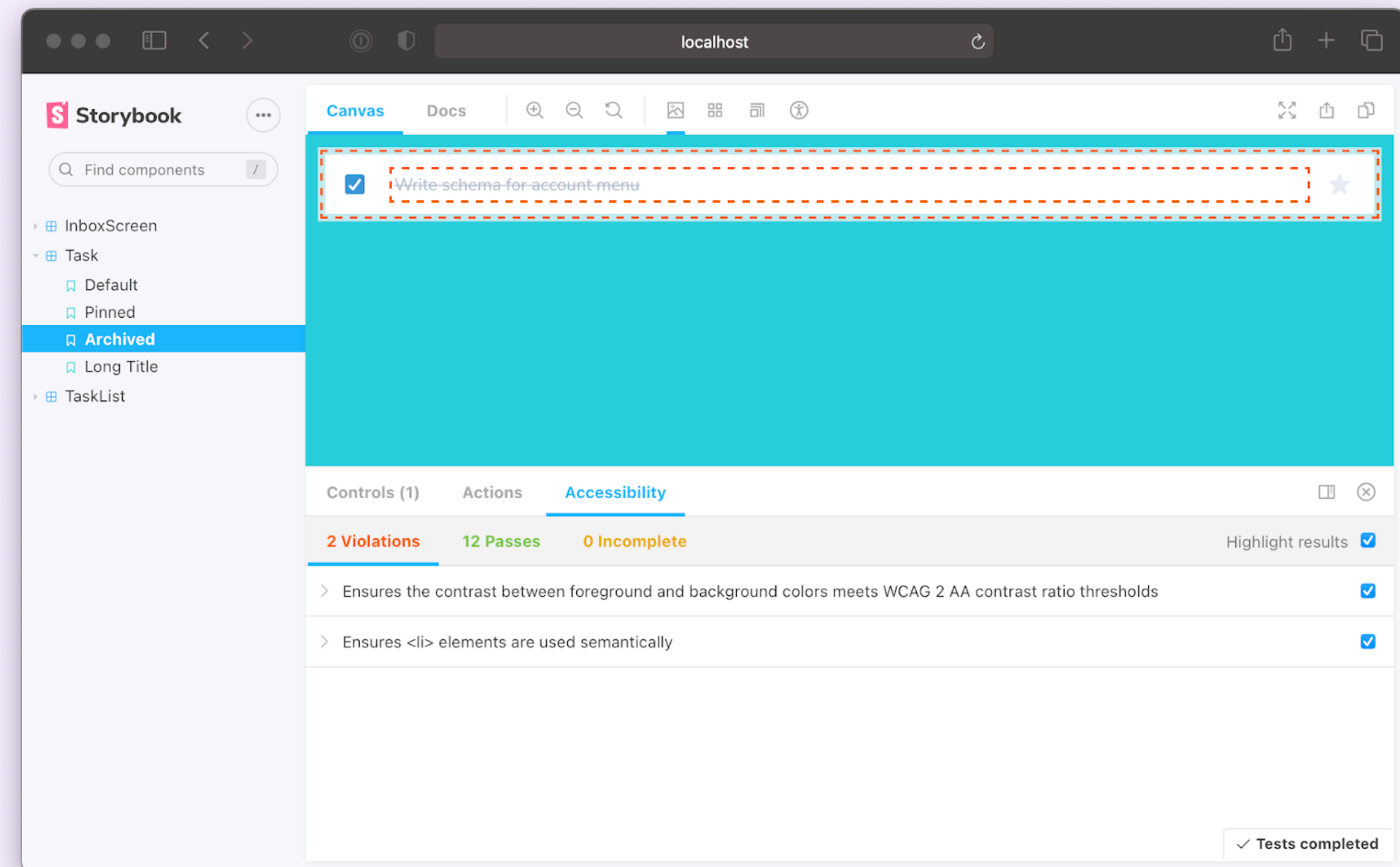


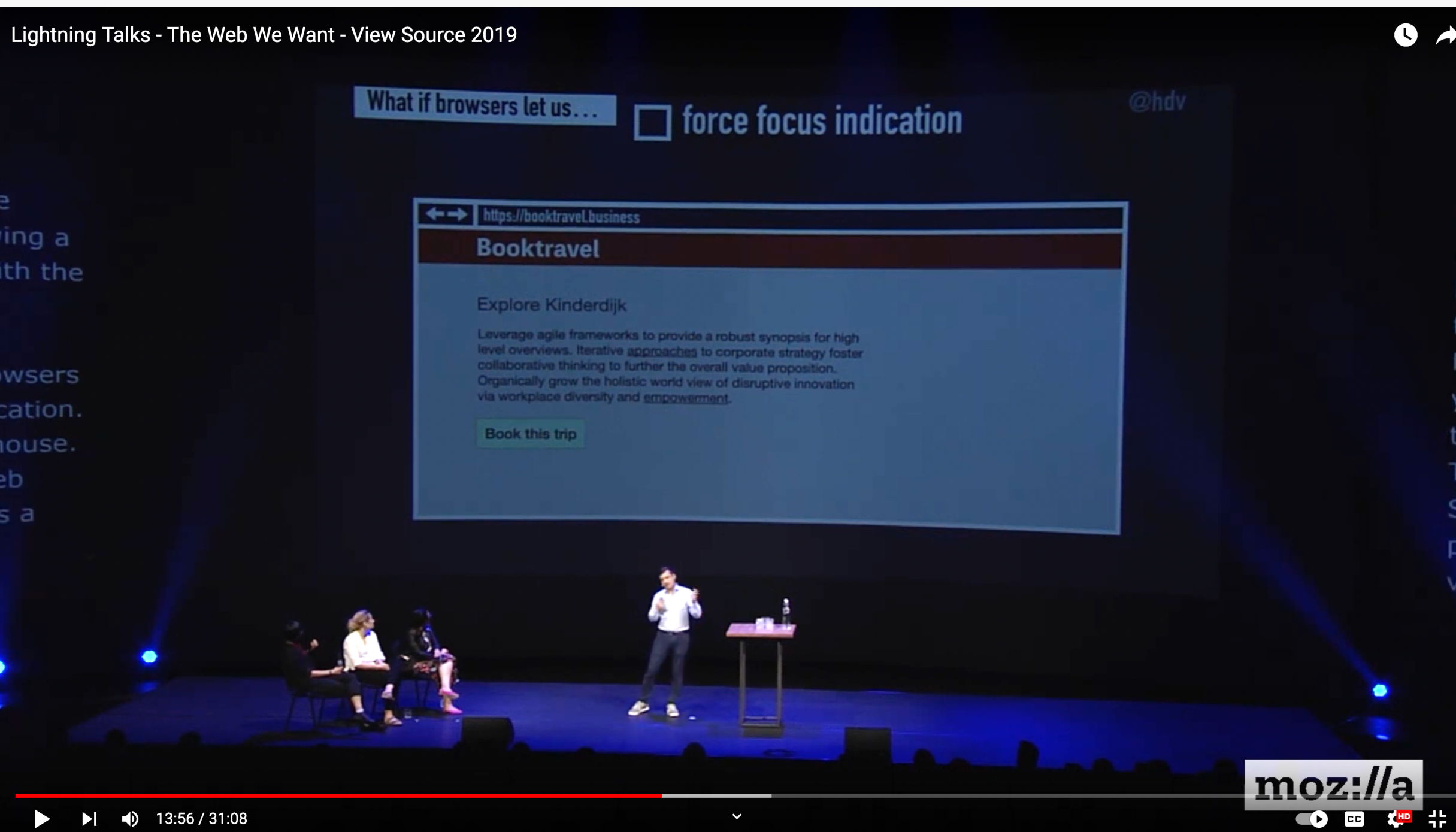
# DESIGN SYSTEMS

With components, we can make accessibility reusable and repeatable

## TESTS PER COMPONENT

With tools like Storyblok





# BROWSERS

Could fix a small subset of accessibility issues in content automatically for end users



Untruncate text



Force colour contrast



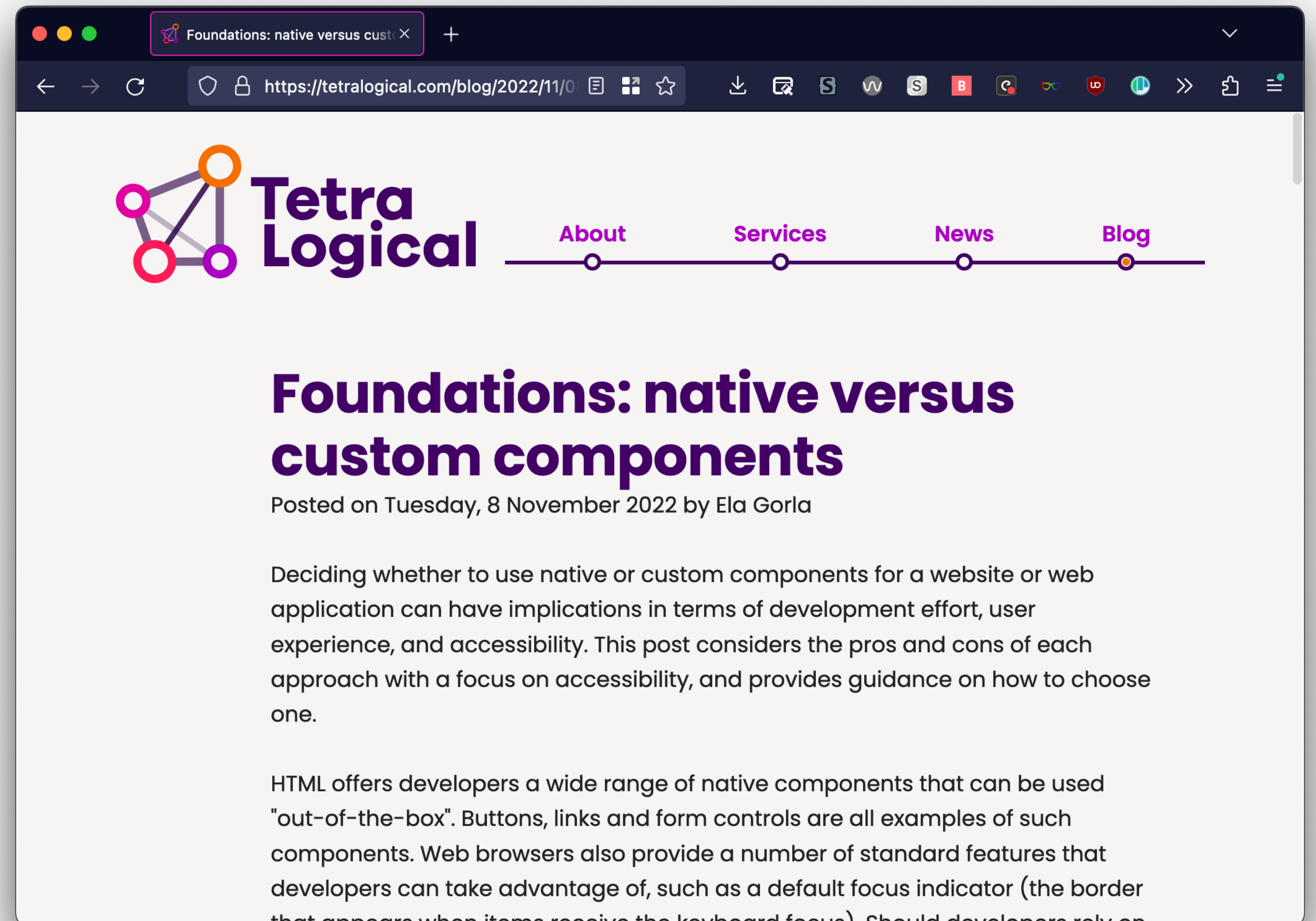
Force focus indication



Suppress autoplay of gifs and videos

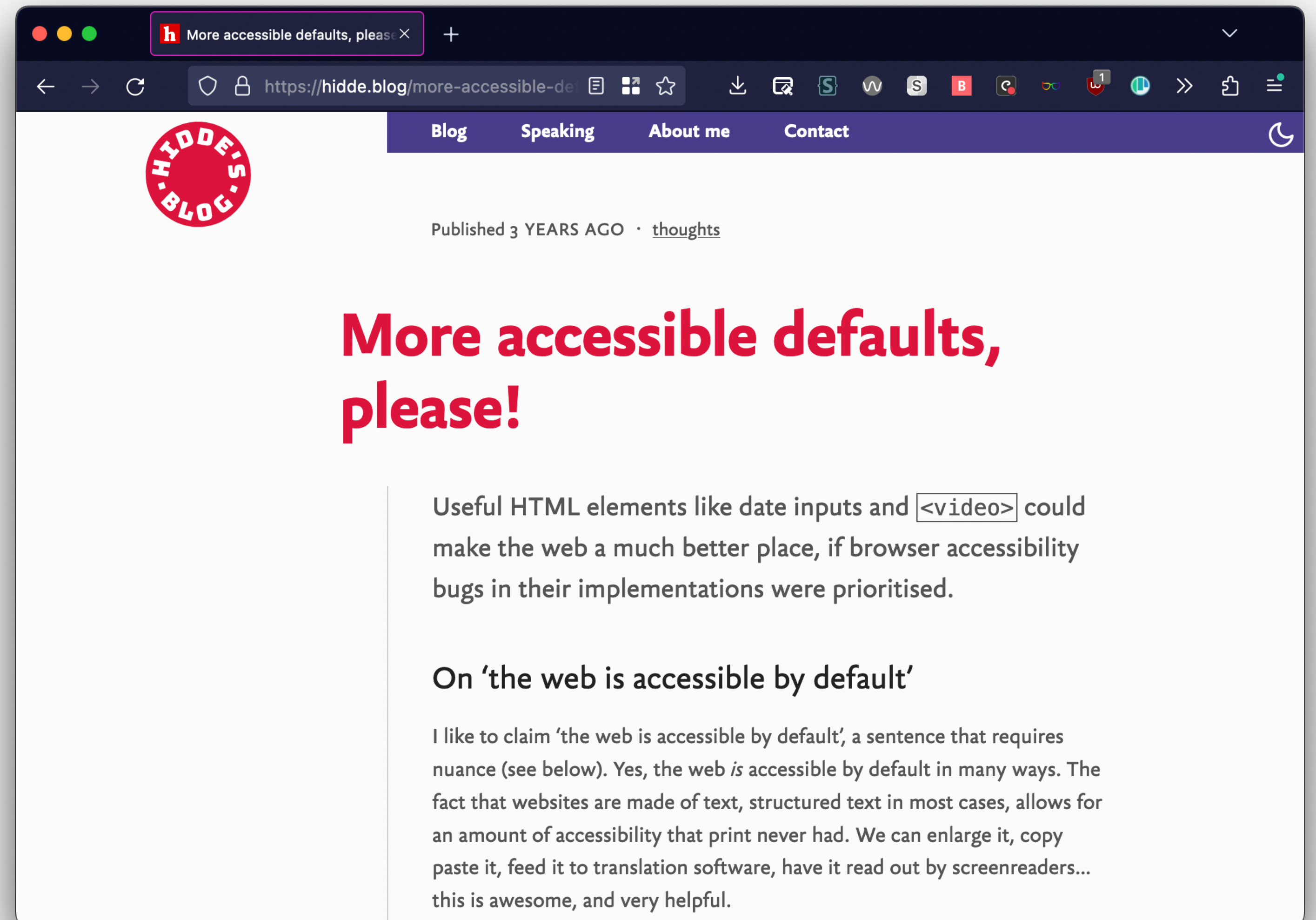
# HTML

Could offer more  
accessibility-by-default  
components



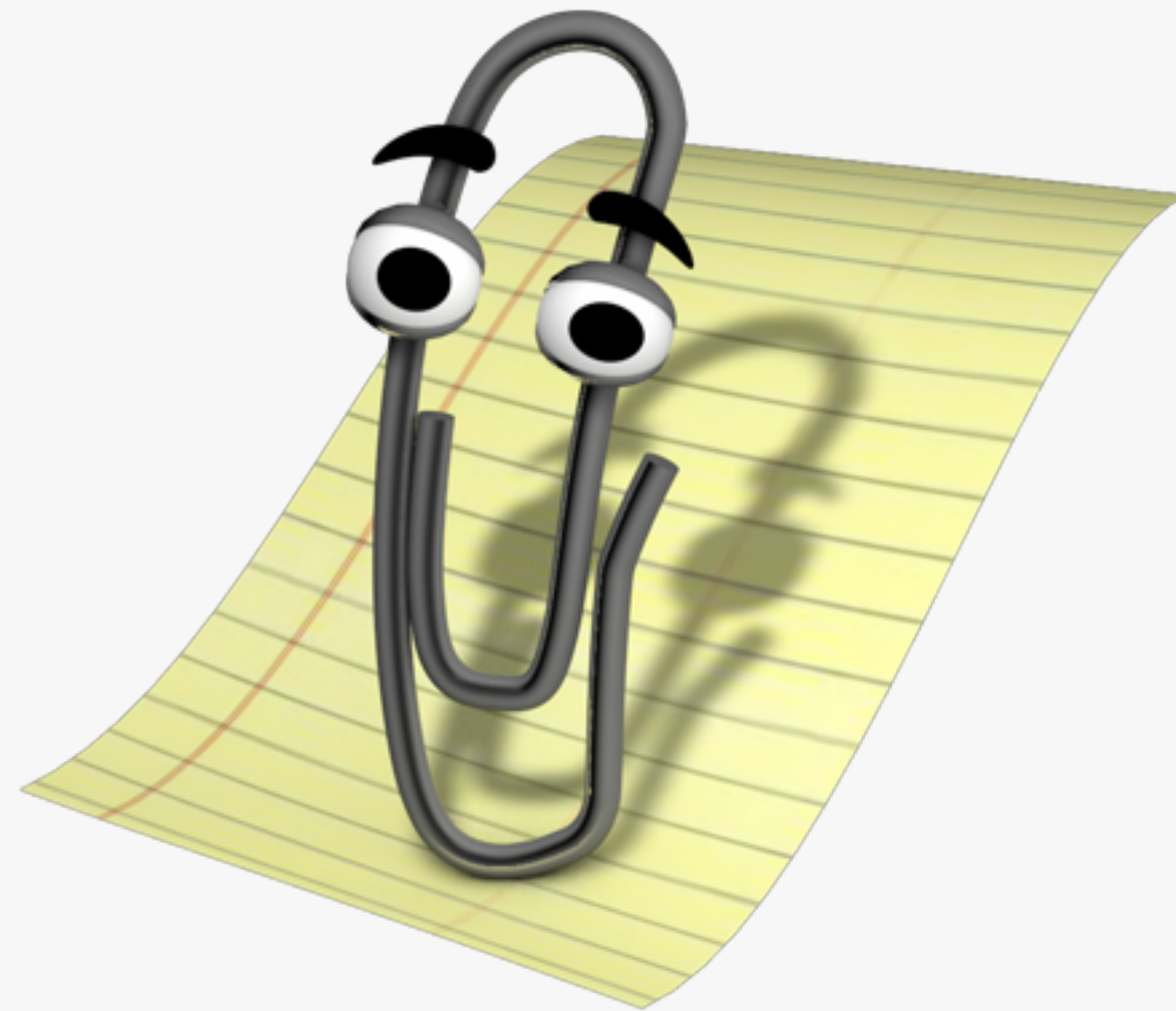
# HTML

Could offer more  
accessibility-by-default  
components



# CMS

Could help with accessibility  
in the authoring process



# CMSES AND THEIR ACCESSIBILITY

## *Assessing CMS accessibility*

**WCAG**

For web  
content

**ATAG**

For tools that make  
web content



# ATAG REPORT TOOL

Offered by W3C to help create ATAG audit reports

The screenshot shows the ATAG Report Tool interface. At the top, there is a dark blue header with the W3C logo and 'Web Accessibility Initiative WAI'. Below the header is a light blue navigation bar with links for 'Overview', 'About', 'A.1', 'A.2', 'A.3', 'A.4', 'B.1', 'B.2', 'B.3', 'B.4', and 'Report'. The main content area is titled 'Overview' and contains a paragraph explaining the tool's purpose. Below this is a section for 'Tips for using this tool:' with four bullet points. At the bottom of the main content area are two buttons: '+ Expand All Sections' and '- Collapse All Sections'. On the right side, there is a sidebar with a 'Report for PerfectCMS' section, a 'Hide >' button, and a progress indicator showing 'Reported on 8 of 52 Level A, AA Success Criteria'. Below this are progress bars for each requirement: A.1 (2 of 3), A.2 (0 of 4), A.3 (2 of 13), A.4 (4 of 4), B.1 (0 of 6), B.2 (0 of 10), B.3 (0 of 6), and B.4 (0 of 6). At the bottom of the sidebar are two buttons: 'View Report' and 'New Report'.

## ATAG Report Tool

W3C® Web Accessibility Initiative WAI

Overview About A.1 A.2 A.3 A.4 B.1 B.2 B.3 B.4 Report

### Overview

This tool helps evaluators report on the accessibility of authoring tools. It guides you through the Authoring Tool Accessibility Guidelines (ATAG) requirements, lets you record your evaluation results for each requirement, and generates a report of the authoring tool's ATAG conformance.

Tips for using this tool:

- As you use the tool, the [Report](#) page lists the success criteria that you have checked and not checked.
- You can export your report as HTML (web page) and as JSON (structured data).
- The tool saves information you enter locally in your browser for backup (not on our servers).
- You can format your evaluation with [Markdown](#), so that you can use lists, links and code examples.

[+ Expand All Sections](#) [- Collapse All Sections](#)

Report for **PerfectCMS** [Hide >](#)

Reported on **8 of 52** Level A, AA Success Criteria.

<b>A.1</b> 2 of 3	<b>B.1</b> 0 of 6
<b>A.2</b> 0 of 4	<b>B.2</b> 0 of 10
<b>A.3</b> 2 of 13	<b>B.3</b> 0 of 6
<b>A.4</b> 4 of 4	<b>B.4</b> 0 of 6

[View Report](#)

[New Report](#)

# LIST OF TOOLS

Soon open for submissions

## **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

Showing 9 authoring tools

#### **Stripmetics** 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](#)

# Accessibility Conformance Report for Sanity Studio (September 2022)

**Evaluated by**

Hidde de Vries (Sanity.io)

**Commissioned by**

Sanity.io

**Target**

WCAG 2.1, Level AA

**Date**

September 14, 2022 (based on August review)

## Executive summary

This report gives an overview of the accessibility of Sanity Studio. An accessible web application is one that has no barriers for users with disabilities. This isn't a clear "yes" or "no", but more a question of how well it works for a wide range of users.

To guide our assessment, we have used the Success Criteria of the [Web Content Accessibility Guidelines, version 2.1](#), scoped to Level A + AA. This leaves us with a total of 50 Success Criteria. Worldwide, this scope is the most commonly used and required.

Sanity Studio meets 36 out of 50 of the Success Criteria that are in scope. In this report, you'll find which criteria are not met, and what the accessibility barriers are that caused them to be marked as "not met".

# WE DID A REVIEW

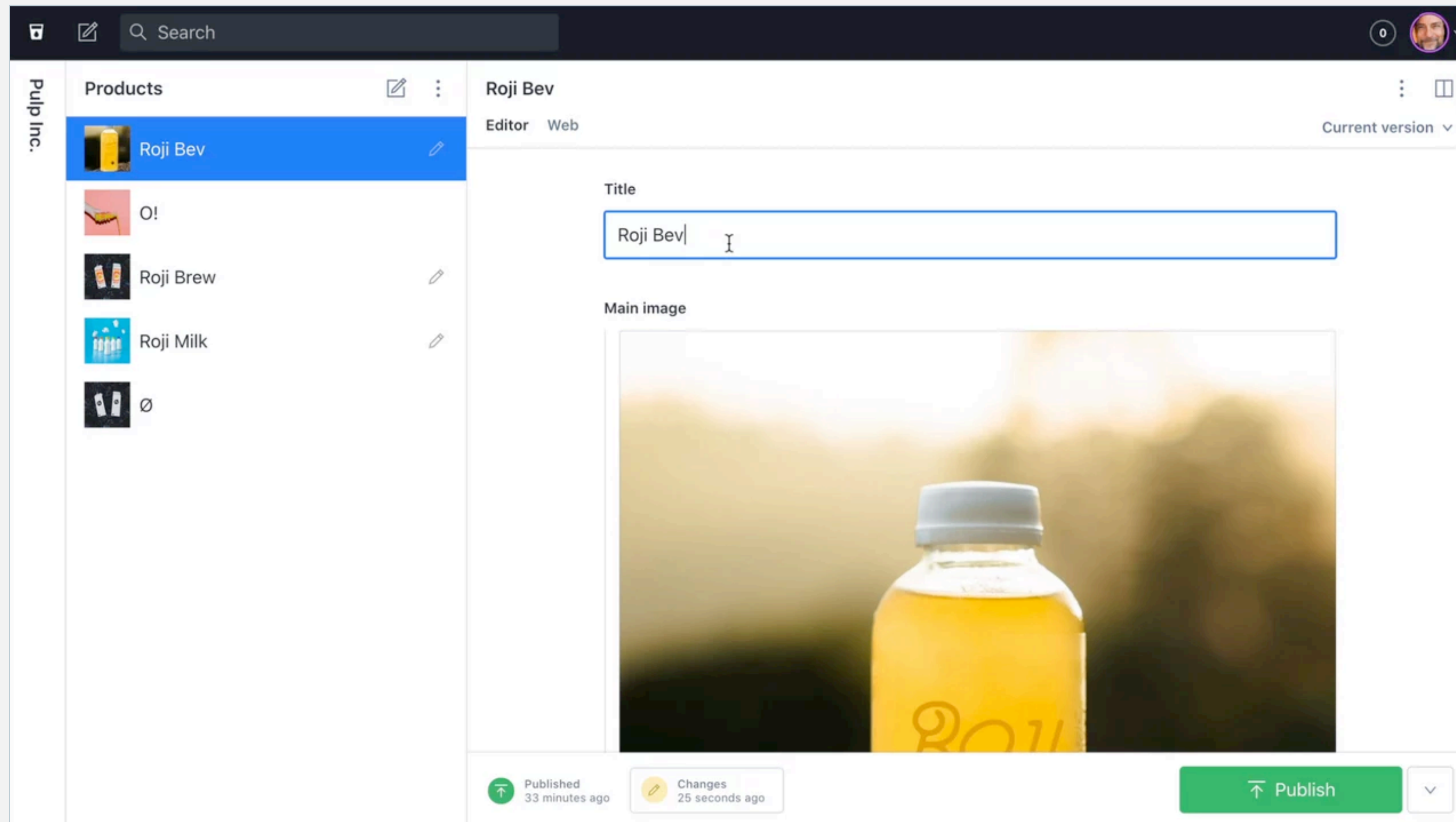
## To find out where we have / could remove barriers

## WHY WCAG?

- Studio makes no “web content”
- WCAG-EM exists
- WCAG maps better to VPAT
- ATAG still full of useful advice

The screenshot shows a web browser window with the following elements:

- Browser Tab:** "Conducting an Accessibility Rev X"
- Address Bar:** "https://www.sanity.io/blog/sanity-accessibility-conformanc..."
- Navigation:** "SANITY" logo, "Platform", "Solutions", "Resources", "Enterprise", "Pricing", "Contact sales", "Log in", and a blue "Get started" button.
- Article Metadata:** "PUBLISHED NOVEMBER 8TH 2022"
- Article Title:** "What we learned from our first accessibility conformance review"
- Article Summary:** "An accessible web means people with disabilities cannot only consume content, but also create content. This is what we learned from a first accessibility review of Sanity Studio."
- Author:** "Hidde de Vries, Hidde is a Developer Relations Specialist at Sanity.io"
- Image:** A dark blue graphic with yellow text "Towards a more accessible CMS" and faint blue outlines of people.
- Page Content:** "Web accessibility is about ensuring that everyone can consume content, but just as much about that everyone can create content. Last quarter, we did an [accessibility conformance review](#) of Sanity Studio, our content editing tool, to find out what we can improve. In this post, we'll talk about how we did that, relevant accessibility standards, the role of design systems, and what accessibility means in a real-time"
- Table of Contents:** "PAGE CONTENT", "Why accessibility matters", "Accessibility review process and considerations", "WCAG or ATAG?"



## CHALLENGES

- Accounting for customisability
- Scope / target
- Usability beyond WCAG, like real time collaboration

## *Assessing CMS accessibility*

**WCAG**

For web  
content

**ATAG**

For tools that make  
web content

# ATAG

## PART A: EDITING EXPERIENCE



## PART B: 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&rav
eta name="ResourceLoaderDynamicStyles" content="" />
<link rel="stylesheet" href="/w/load.php?lang=en&modules=site.styles&only=styl
eta name="generator" content="MediaWiki 1.35.0-wmf.18" />
eta name="referrer" content="origin" />
eta name="referrer" content="origin-when-crossorigin" />
eta 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"

# ATAG

## PART A: EDITING EXPERIENCE



## PART B: 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</h
```



## **PART B OF ATAG**

**“Support the production  
of accessible content”**

# of accessible content

tables with headers

contrast-rich hero images

form fields with labels

captioned video

sensible heading structures

nested according to spec

multilingual content with lang attributes

carousels that can pause

# avoid inof accessible content

tables with no headers

heros with illegible text

nameless form field

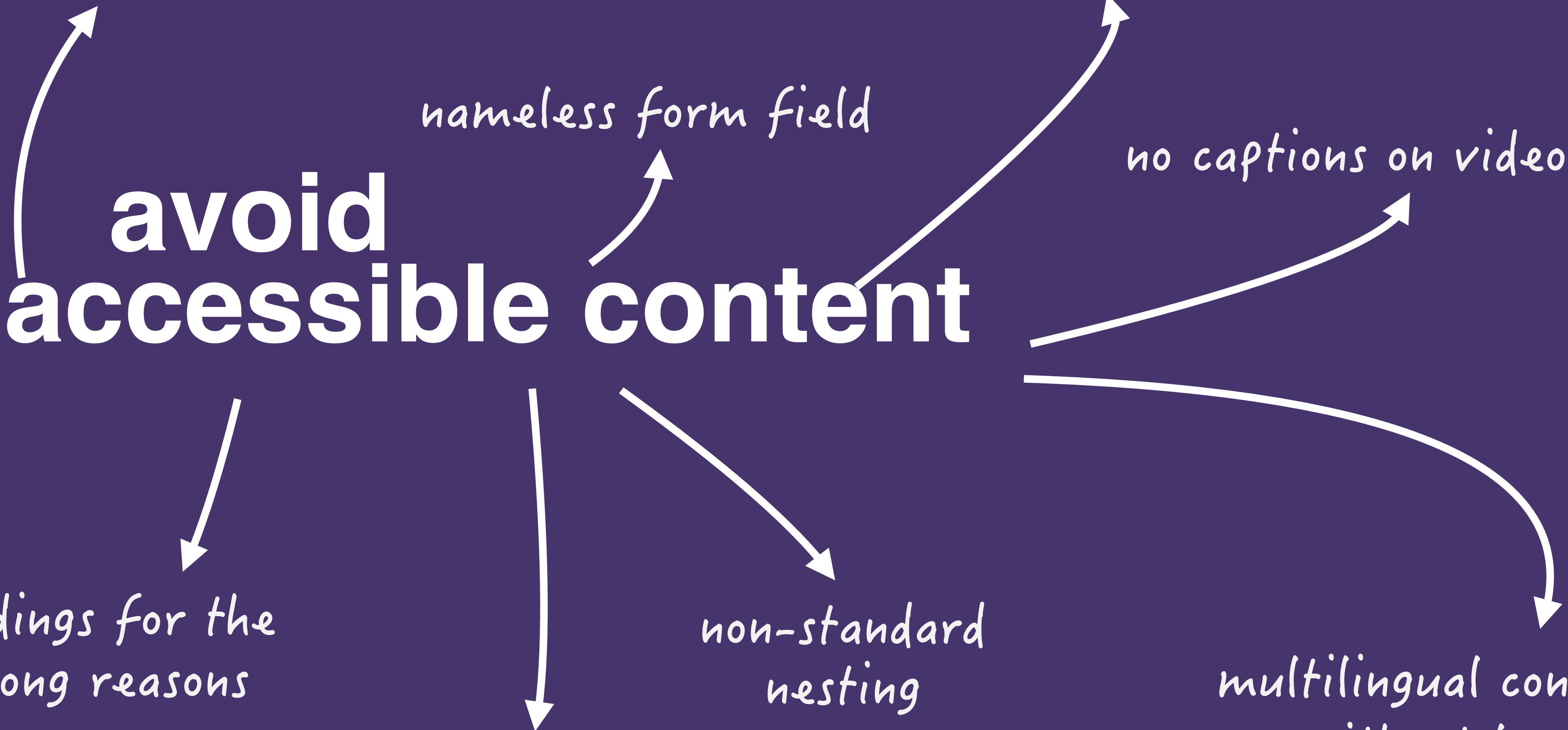
no captions on videos

headings for the wrong reasons

non-standard nesting

carousels with no pause button

multilingual content without lang attributes



*Few CMSes have these features,  
so let's ask*

**DOES IT HAVE THE FEATURE,  
OR IS IT TRIVIAL TO ADD?**

	A	AA	Total		A	AA	Total	
Perceivable	8	9	16		Perceivable	8	9	16
Operable	10	3	13		Operable	10	3	13
Understandable	2	1	3		Understandable	2	1	3

### B.1.1.2

## WHEN CONTENT IS GENERATED, IT IS ACCESSIBLE

- nested according to HTML spec
- no empty links

	A	AA	Total		A	AA	Total	
Perceivable	8	9	16		Perceivable	8	9	16
Operable	10	3	13		Operable	10	3	13
Understandable	2	1	3		Understandable	2	1	3

### B.1.1.2

## WHEN CONTENT IS GENERATED, THERE IS A PROMPT FOR REQUIRED INFORMATION

- caption for a table
- alt text for images in a carousel
- labels for form fields

	A	AA	Total		A	AA	Total	
Perceivable	8	9	16		Perceivable	8	9	16
Operable	10	3	13		Operable	10	3	13
Understandable	2	1	3		Understandable	2	1	3

### B.1.1.2

**WHEN CONTENT IS GENERATED,  
THERE ARE AUTOMATED  
ACCESSIBILITY CHECKS**

	A	AA	Total		A	AA	Total	
Perceivable	8	9	16		Perceivable	8	9	16
Operable	10	3	13		Operable	10	3	13
Understandable	2	1	3		Understandable	2	1	3

### B.1.1.2

## WHEN CONTENT IS GENERATED, MANUAL CHECKS ARE SUGGESTED

- check if heading structure makes sense
- verify if centrally managed image alternatives apply in this use case



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

### **B.2.1.1**

## **ALLOWS FOR CREATING ACCESSIBLE CONTENT**

- for each image field, there is an alt text field
- for each video player field, there is a captions upload button

- SEO friendly
- Multilingual
- Accessible
- Custom colors

### **B.2.4.1**


# **HAVE ACCESSIBLE TEMPLATES FOR COMMON USE CASES**



## B.2.5.1

# PROVIDE ACCESSIBLE UI COMPONENTS

*"pre-authored content"*



lorem ipsum dolor sit

**B.3.1.1**

**WARN ABOUT COLOUR  
CONTRAST ISSUES**



lorem ipsum dolor sit

**B.3.1.1**

**WARN ABOUT COLOUR  
CONTRAST ISSUES**

lorem ipsum dolor sit



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

**B.3.1.1**

# **WARN ABOUT COLOUR CONTRAST ISSUES**

```
<button type="button">Swbmit</button>
```

**B.3.1.1**

**ADD A SPELLCHECKER  
TO CONTENT FIELDS**

**Swbmit**

```
<button type="button">Submit</button>
```

### B.3.1.1

## ADD A SPELLCHECKER TO CONTENT FIELDS



Submit



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 to grab someone's attention.

**Very Long Sentence**

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 short sentences. Sentences which drone on and on and try to say too much and you readers lose 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

**B.4.2.1**

**PROVIDE ACCESSIBLE  
EXAMPLES**

# CMSES AS ACCESSIBILITY ASSISTANTS

It looks like you're writing a letter.

Would you like help?

- Get help with writing the letter
- Just type the letter without help
- Don't show me this tip again



# Errors

A typical page with accessibility or usability errors.

The sample text below is from [Wikipedia: Bear](#).



[Learn more about Bears on Wikipedia >](#)

Bears are carnivoran mammals of the family Ursidae. They are classified as caniforms, or doglike carnivorans. Although only eight species of bears are extant, they are widespread, appearing in a wide variety of habitats throughout the Northern Hemisphere and partially in the Southern Hemisphere. Bears are found on the continents of North America, South America, Europe, and Asia. Common characteristics of modern bears include large bodies with stocky legs, long snouts, small rounded ears, shaggy hair, plantigrade paws with five nonretractile claws, and short tails.

While the polar bear is mostly carnivorous, and the giant panda feeds almost entirely on bamboo, the remaining six species are omnivorous with varied diets. With the exception of courting individuals and mothers with their young, bears are typically solitary animals - [learn more](#). They may be diurnal or nocturnal and have an excellent sense of smell. Despite their heavy build and awkward gait, they are adept runners, climbers, and swimmers.

## Etymology

The English word "bear" comes from Old English bera and belongs to a family of names for the bear in Germanic languages, such as Swedish björn also used as a first name. This form is conventionally said to be related to a Proto-Indo-European word for "brown", so that "bear" would mean "the brown one".<sup>[1][2]</sup> However, Ringe notes that while this etymology is semantically plausible, a word meaning "brown" of this form cannot be found in

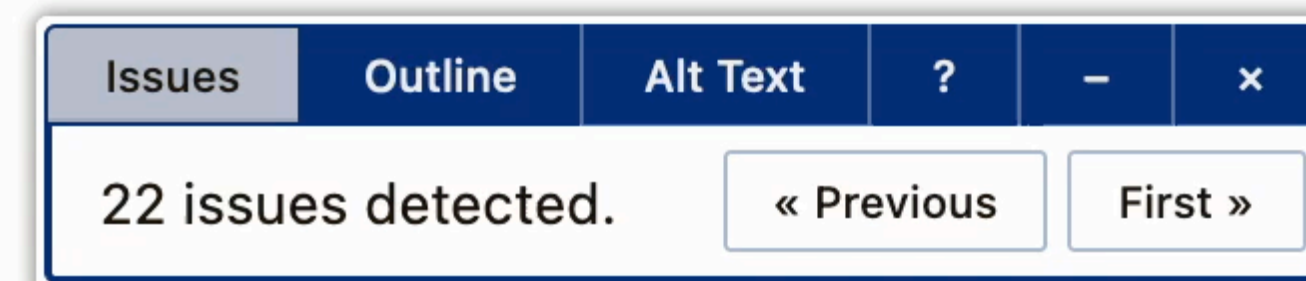
Checks in  
Jooa11y,  
for Joomla  
(based on  
Sa11y)



Home

# The power of the web is its universality

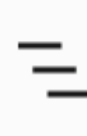
This page simulates what an *author* would experience if they were logged in to a site with Editoria11y installed: a toggle automatically appears in the lower-right-hand corner of the page with issue information. Normally it is an innocuous little checkmark; since there were critical issues detected on this page it has gone red and received an issue count.



1. Explore the tips

Checks in Editoria11y v2, for Drupal (Based on Sa11y)

The image shows the WordPress Gutenberg editor interface. The main content area has a yellow background with the text "The power of the web is its universality" in a large, bold, black font. A dashed blue box highlights a portion of the top of the text area. The top toolbar includes icons for adding blocks, undo, redo, help, and a menu. The right-hand sidebar is open to the "Block" settings for a "Columns" block. The sidebar shows the "Columns" section with a slider set to 2 columns and a "Stack on mobile" toggle that is turned on. Below this is the "Color" section with radio buttons for "Text", "Background", and "Link", all of which are currently unselected. The "Typography" section is partially visible at the bottom.



Preview

Publish



Document

Block



Columns

Display content in multiple columns, with blocks added to each column.

COLUMNS

Slider control for number of columns, currently set to 2.

Stack on mobile

Color

- Text
- Background
- Link

Typography

SIZE

Input field for font size.

# WYSIWYM

What you see  
is what you mean

Review

Heading 3

B

*i*

<>

U

Ⓢ

☰

☰

🔗

Normal

**Heading 1**

**Heading 2**

**Heading 3**

**Heading 4**

**Heading 5**

**Heading 6**

Quote

acter and how they developed throughout

rs:

# WYSIWYM

## Validations in JavaScript

```
function noFakeLists(options = {}) {
  return function (blocks) {
    const regex = options.regex || /^\\s*[-*+—]/
    const fakeListBlocks =
      (blocks || [])
        .filter(
          block =>
            block._type === 'block' &&
            block.children.some(
              blockPart =>
                blockPart._type === 'span' &&
                regex.test(blockPart.text)
            )
        )
        .map((block, index) => [{ _key: block._key }]
          || [index]) || [])

    return (
      fakeListBlocks.length === 0 || {
        message:
          options.message ||
          'This looks like a list, but it is
          plain text. Use the bulleted list option.',
        paths: fakeListBlocks,
      }
    )
  }
}
```





Content

Books



Norwegian wood



Norwegian wood



Current version

Book title

Norwegian wood

Review

Normal



**B**

*i*



U



It was a fantastic book!

**Details**

Really liked the main character and how they developed throughout the book.

I also liked these characters:

- Alice
- Bob

<https://github.com/hidde/porta11y>



Jun 15



53s



Publish



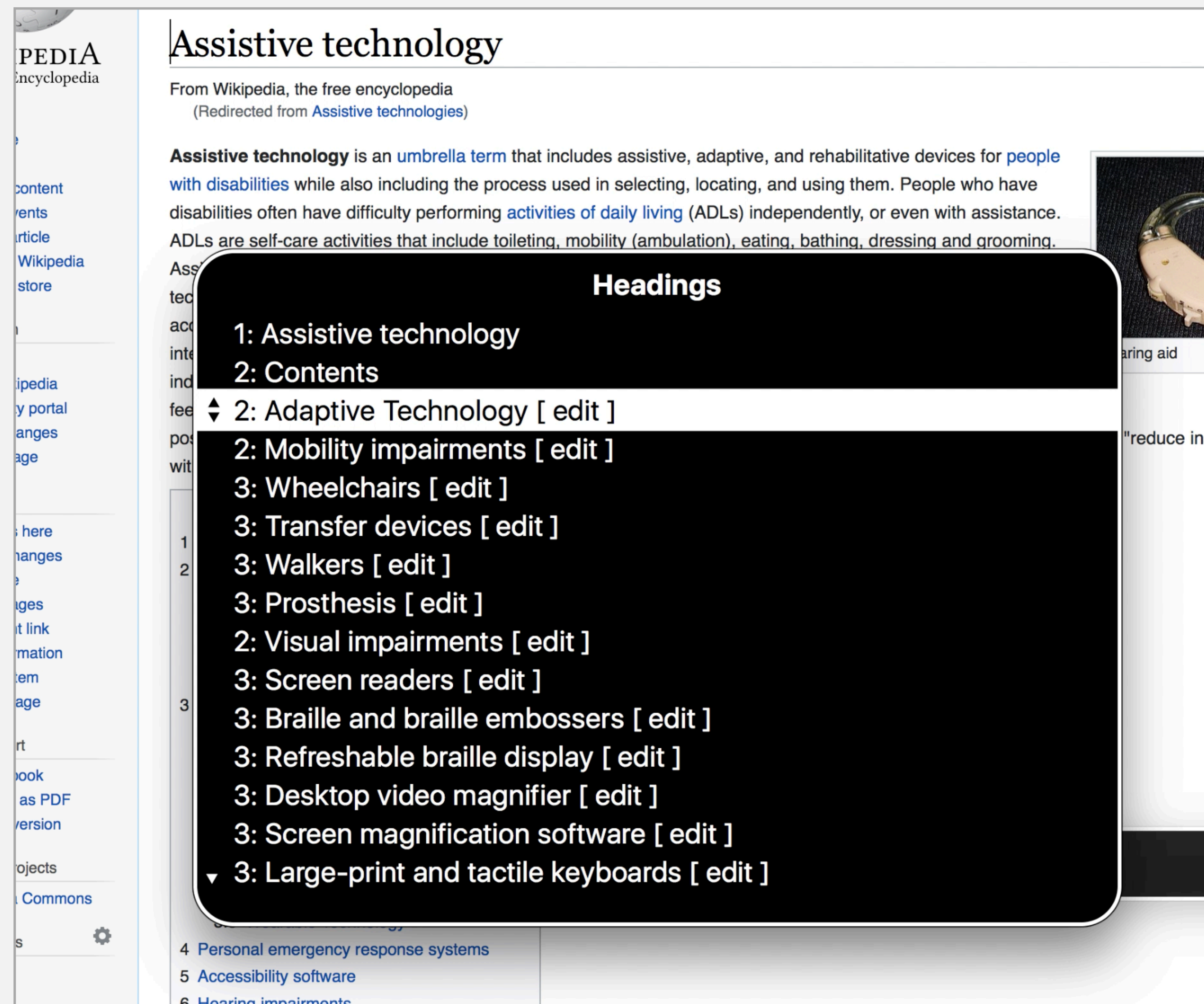
# MORE VALIDATIONS WHILE YOU CREATE CONTENT

- Do headings have hierarchy?
- Are links empty?
- Does link that only contains image have non-empty alternative?

...

# PREVIEWS

If you can customise previews, you can preview accessibility (or lack thereof)



The image shows a screenshot of a Wikipedia article titled "Assistive technology". The article text is partially visible, starting with "From Wikipedia, the free encyclopedia" and "(Redirected from Assistive technologies)". The main text describes assistive technology as an umbrella term for devices and processes that help people with disabilities perform activities of daily living (ADLs).

Overlaid on the article is a dark, rounded rectangular preview box titled "Headings". This box displays a list of headings for the article, including:

- 1: Assistive technology
- 2: Contents
- 2: Adaptive Technology [ edit ]
- 2: Mobility impairments [ edit ]
- 3: Wheelchairs [ edit ]
- 3: Transfer devices [ edit ]
- 3: Walkers [ edit ]
- 3: Prosthesis [ edit ]
- 2: Visual impairments [ edit ]
- 3: Screen readers [ edit ]
- 3: Braille and braille embossers [ edit ]
- 3: Refreshable braille display [ edit ]
- 3: Desktop video magnifier [ edit ]
- 3: Screen magnification software [ edit ]
- 3: Large-print and tactile keyboards [ edit ]

Below the heading list, the article's table of contents is partially visible, showing sections 4 through 6: "4 Personal emergency response systems", "5 Accessibility software", and "6 Hearing impairments".

### Geodesic cabin

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e.g. 2019-12-06 08:49

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### Main image



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# CONCLUSION

# CONCLUSION

- **Accessibility can't be automated and not everything has an easy fix, *but* there are issues we could build into design systems, browsers and CMSes**
- **Use a CMS that can be set up to work as an accessibility assistant for your content editors**
- **Custom validations and previews can be powerful tools**
- **Accessibility is easier when you do it earlier**

# THANKS!

- slides are on [talks.hiddedevries.nl](https://talks.hiddedevries.nl), will share on @hdv / @hdv@front-end.social
- questions: now