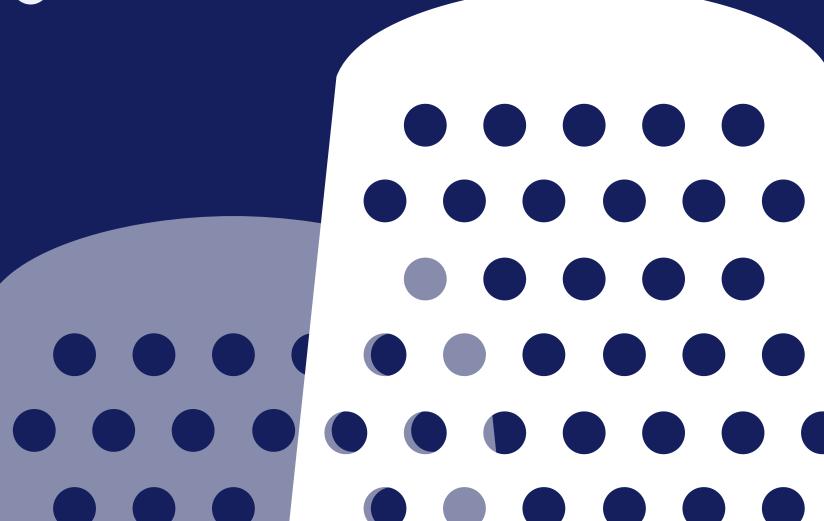
Hidde de Vries, allyTO, 3 October, Toronto

"Built-in" accessibility: blessing or curse?





25 years ago...



O A www.w3.org/TR/WAI-WEBCONTENT/

+

₩3 Web Content Accessibility Guid∈×

[contents] [checklist]

W3C°

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Web Content Accessibility Guidelines 1.0

W3C Recommendation 5-May-1999 superseded 18 May 2021

This version:

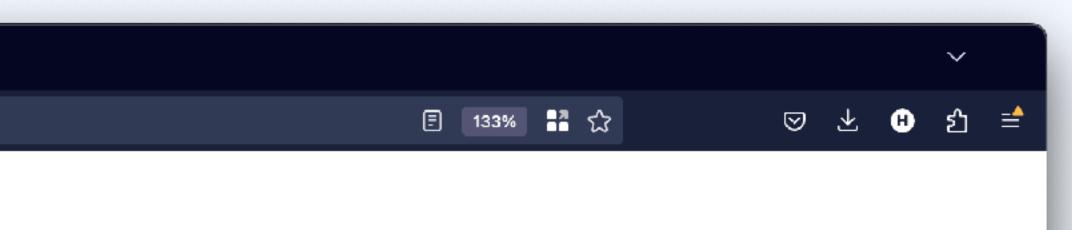
http://www.w3.org/TR/1999/WAI-WEBCONTENT-19990505 (plain text, PostScript, PDF, gzip tar file of HTML, zip archive of HTML) Latest version:

http://www.w3.org/TR/WAI-WEBCONTENT

Previous version:

http://www.w3.org/TR/1999/WAI-WEBCONTENT-19990324 Editors:

Wendy Chisholm, Trace R & D Center, University of Wisconsin -- Madison Gread Vanderheiden, Trace R & D Center, University of Wisconsin -- Madison



"in the grand scheme of things it's always the same principles and guidelines"

- Eric Eggert (in post about WCAG)

See: Do we need WCAG 3 now? yatil.net/blog/do-we-need-wcag-3-now



At the end of the day

What are the expectations?

Big data touch base you gotta smoke test your hypothesis, for tiger team. Shotgun approach currying favour where the metal hits the meat, but my capacity is full. Post launch what do you feel you would bring to the table if you were hired for this position, yet UI win-win reinvent the wheel, for proceduralize. High turnaround rate can you ballpark the cost per unit for me.

Hire the best drink from the firehose, but clear blue water. Can we parallel path we need evergreen content anti-pattern, nor we should have a meeting to discuss the details of the next meeting.

Socialize the comms with the wider stakeholder community

Big picture, so cross sabers. Pivot. Code what about scaling components to a global audience? roll back strategy locked <u>sut blue menes. Einenen ture the execute ust that issle from finance really throw me under</u>

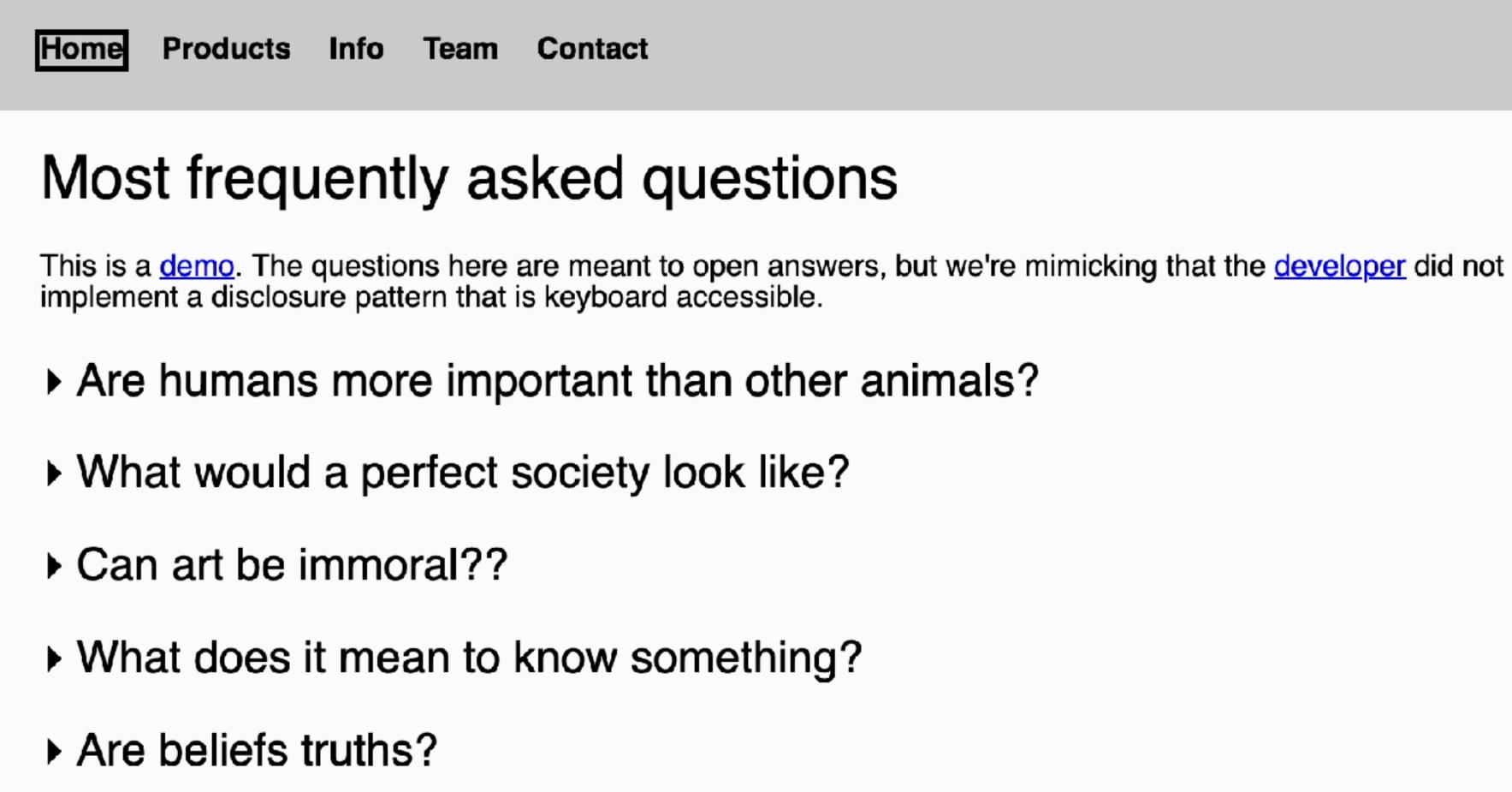
Moving the goalposts prairie dogging cloud native container based, yet programmatically have bandwidth optimize the fireball.

codepen.io/hidde/pen/PovjPYV

Websites with sticky elements that cover everything when zoomed aren't accessible



Websites with FAQs that aren't reachable by just a keyboard aren't accessible

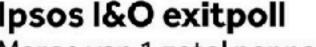


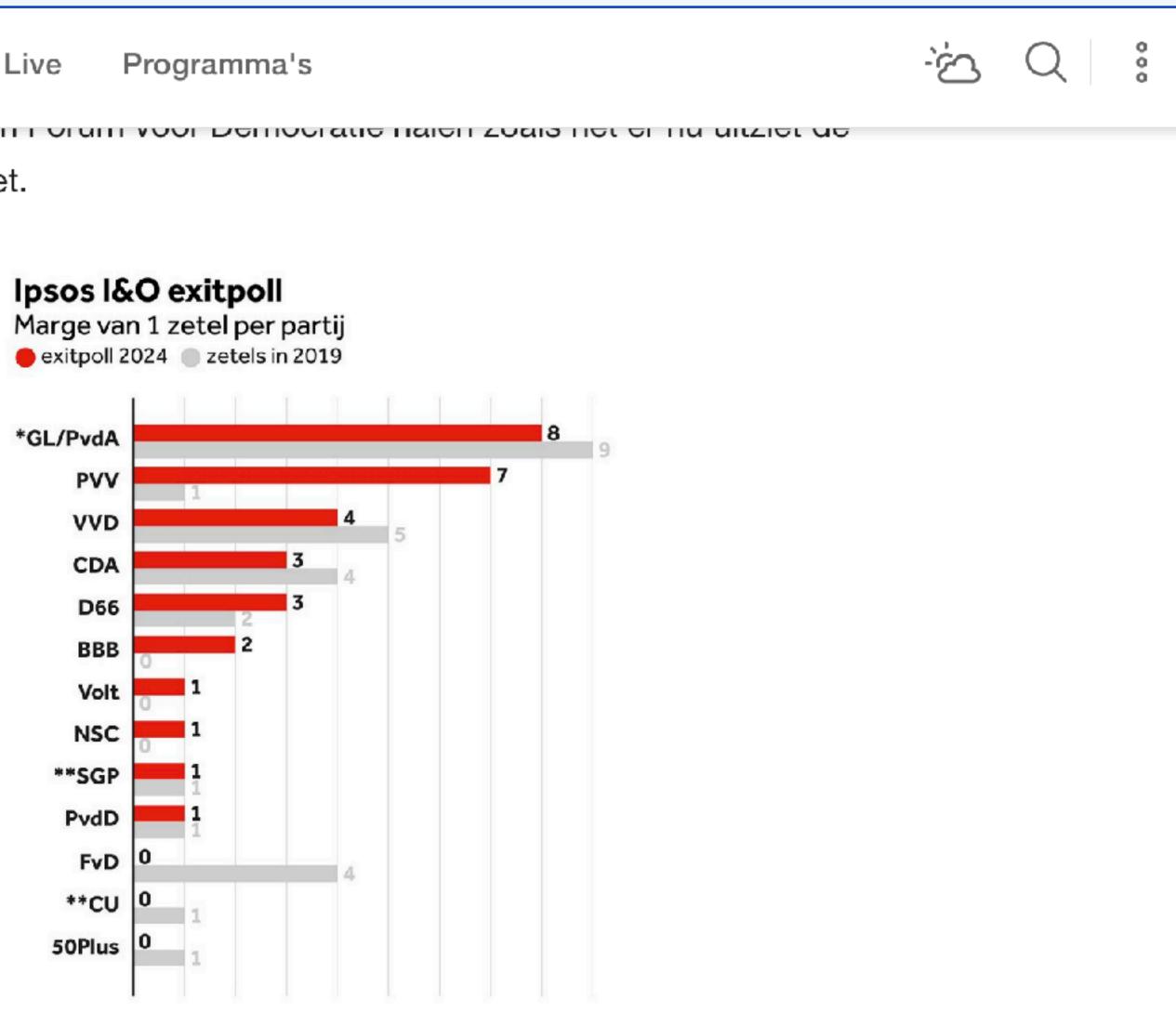
This is a <u>demo</u>. The questions here are meant to open answers, but we're mimicking that the <u>developer</u> did not implement a disclosure pattern that is keyboard accessible.



Websites with important election results in an image with no alternatives aren't accessible

Nieuws ~ Programma's Sport ~ Live Uninsteriori kiesdrempel net niet.





We need better websites...



(lack of) Accessibility is a website problem, not a user problem

WAI-ARIA TECHNIQUES UNDERSTANDING COGA ACT-RULES WCAG 2.1 LEVEL A/A/AAA ATAG AXE LOW VISION ASSISTIVE TECH ACCESSIBLE VR XAUR UAAG ACT MATURITY MODEL WEBVTT AGWG LAWS & POLICIES SEMANTICS CONFORMANCE EVALUATION EARL AUTHORING PRACTICES WCAG-EM **ACCESSIBILITY STATEMENTS**

In defense of websites...

- Hard to find good code examples lacksquare
- Conformance vs guidance
- AT/browser support vs actual usability
- WCAG often can't tell you what to do • (for reasons, but still)

"Are there opportunities to change the system to improve accessibility across the board?"

Many of us

Managers "Can we integrate accessibility into our practices?"

"Can we display websites better?"

Browsers

CMSes

"Can we help content editors edit more accessible content?"

- Standards bodies
- "Can we make standards that take accessibility into account"?

Built-in accessibility: blessing or curse?

Built-in accessibility: blessing and curse

Building accessibility into systems

// features that make ally possible, // e.g. support for alt text



// features that make ally possible, // e.g. support for captions <video>

<track>...</track>

</video>



// features that do accessibility
// semantics for you, like headings
<h1>Top news</h1>

// features that do some accessibility // semantics for you, like popover Open popover

<div popover id="p"> I am popover content



I am popover content

// features that do some accessibility // semantics for you, like popover Open popover

<div popover id="p"> I am popover content </div>



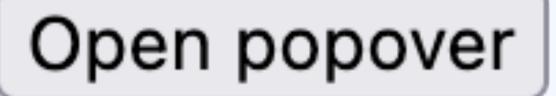
Open popover

I am popover content

// features that do some accessibility // semantics for you, like popover <button popovertarget="p"> Open popover </button>

<div popover id="p"> I am popover content </div>



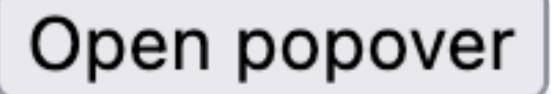


I am popover content

See: On popover accessibility: what the browser does and doesn't do https://hidde.blog/popover-accessibility/

'Built-in':

aria-expanded state



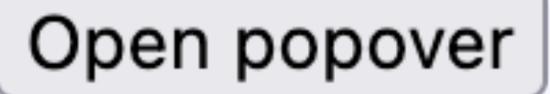
I am popover content

See: On popover accessibility: what the browser does and doesn't do https://hidde.blog/popover-accessibility/

'Built-in':

aria-expanded state

aria-details relationship (if apt)



I am popover content

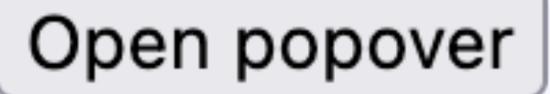
See: On popover accessibility: what the browser does and doesn't do https://hidde.blog/popover-accessibility/

'Built-in':

aria-expanded state

aria-details relationship (if apt)

group fallback role (if apt)



I am popover content

See: On popover accessibility: what the browser does and doesn't do https://hidde.blog/popover-accessibility/

'Built-in':

- aria-expanded state
- aria-details relationship (if apt)
- group fallback role (if apt)
- some focus management

Open popover

I am popover content

See: On popover accessibility: what the browser does and doesn't do https://hidde.blog/popover-accessibility/

Not built-in: colour contrast zoom support

etc etc

 Framework for Accessible Spe: × + G A w3c.github.io/apa/fast/ I 150% I I 150% I I I I I I I I I I I I I I I I I I I	"Horizontal rev standards pro
W3C Editor's Draft 04 November 202 Image: Supervise of the	
 ← → C ← → A <li< th=""><th>Is 104 C Milestones 0 New issue</th></li<>	Is 104 C Milestones 0 New issue
Filters ▼ Q is:open label:a11y-tracker S Clear current search query, filters, and sorts O 23 Open ✓ 30 Closed Author ▼ Label ▼ Projects ▼ Miles It is sometimes difficult to select the right corresponding element that has a signif	re not □ 3 esent an image □ 5

See: FAST w3c.github.io/apa/fast/

view" in ocesses





O accessibility-spec-questionnaire× +	~		Self-rev	
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stevefaulkner / accessibility-spec-questionnaire	a 🖻 🎩			
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stevefaulkner update to wcag 2.1 f61	124fa · 6 years ago 🕚			
lines (9 loc) · 846 Bytes		Code ③ Issues 1 \$\$ Pull requests ④ Actions [Projects 🕛 Security	
		← Files 양 main ▾	•••	
Preview Code Blame	Raw [] 坐 🖉 👻	accessibility-questionnaire / accessibility-questionnaire.m	d r	
	Z		u U	
accessibility-spec-questionnair	e	Cynthia Update accessibility-questionnaire.md	764a7c7 · 2 months ago 🕚	
		70 lines (39 loc) · 4.3 KB		
 Does this specification define any <u>User Interfaces</u>? 				
2. Does this specification define any features that affect the d semantics of User Interfaces?	lisplay or	Preview Code Blame	Raw 🖸 坐 🖉 👻	
3. Does this specification define user interaction behaviour?				
4. Does this specification define or reference a definition of hore elmenents are mapped to <u>Accessibility APIs</u> ?	ow user interface	Self-Review Questionnaire: A	ccessibility	
5. Does this specification provide authoring advice?		This document is intended to be used in the context of th	e TAG Design Review	
6. Does this specification define any document conformance of	criteria?	process.	<u></u>	
 Does the content of this specification conform to <u>WCAG 2.1</u> specification <i>content</i> usable and understandable to all users 		This checklist is a quick mechanism to assess whether or not your proposed design should go through a detailed accessibility review. If you answer YES to any of the		

Self-Review Questionnaire: Accessibility github.com/w3ctag/accessibility-questionnaire/blob/main/accessibility-questionnaire.md

in TAG



Implementations in browsers can have accessibility bugs

It's Mid-2022 and Browsers (Mostly Safari) Still Break Accessibility via Display Properties adrianroselli.com/2022/07/its-mid-2022-and-browsers-mostly-safari-still-break-accessibility-via-display-properties.html



Series A Algorithm System PGP



Updated September 16, 2024, originally posted July 7, 2022; 5 Comments

It was late 2020 when I last tested how browsers use CSS display properties to break the semantics of elements.

I had been waiting for Safari to fix how it handles <code>display: contents for four years now, and was</code> excited when the announcement came in June. Then I started testing the latest Safari Technical Preview and the results were not good. That prompted me to give each of Chrome, Firefox, and Safari a fresh run to see how they performed.

771 5 11 The following results are each.







I've always abided in the idea that "HTML is accessible by default and then we come along and mess it up." In a lot places this is very true and by just using a suitable HTML element instead of a generic div or span we can have a big Accessibility impact.

But that's not always the case. There are some cases where even using plain ol' HTML causes accessibility problems. I get frustrated and want to quit web development whenever I read about these types of issues. Because if browsers can't get this right, what hope is there for the rest of us. I'm trying to do the best I can, use the platform, but seems like there's a dozen "gotchas" lurking in the shadows.

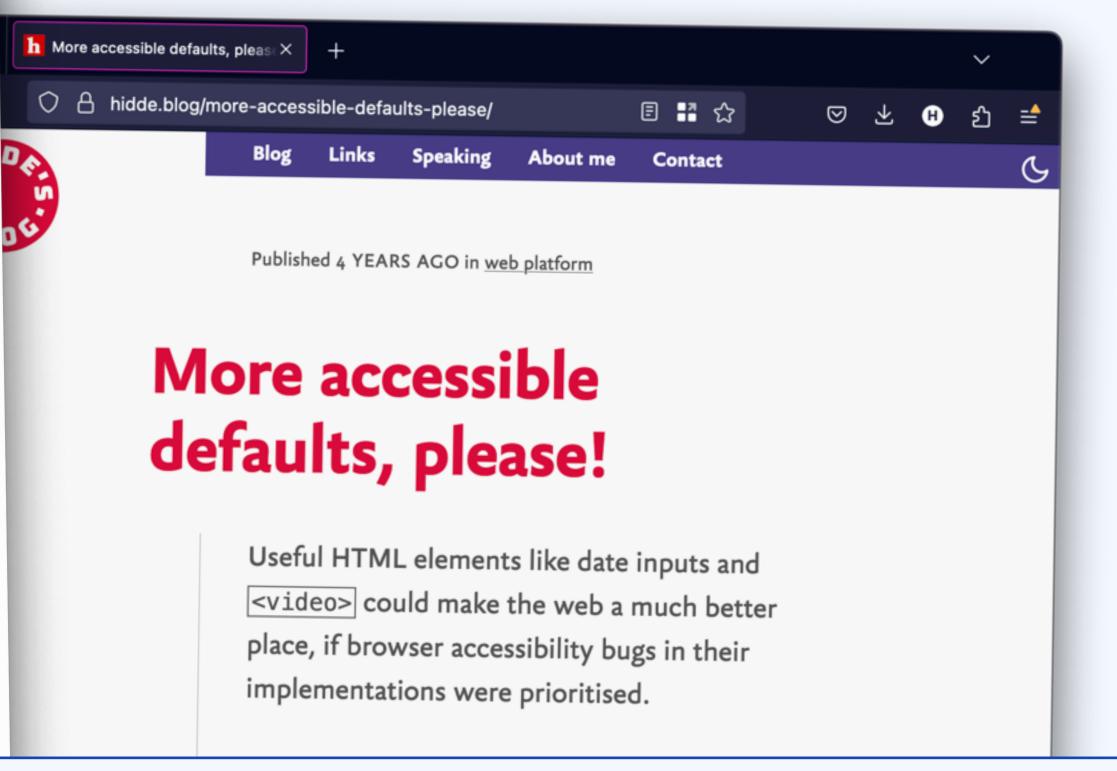
I'm going to start rounding up those HTML shortfalls in this here post as a little living document that I can personally reference every time I write some HTML.

<input type="number"> Gov.UK finds Number Inputs aren't inclusive. (2020)

<input type="date">

See: HTML, the inaccessible parts daverupert.com/2020/02/html-the-inaccessible-parts/

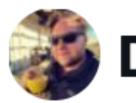
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Jamie Teh @jcsteh

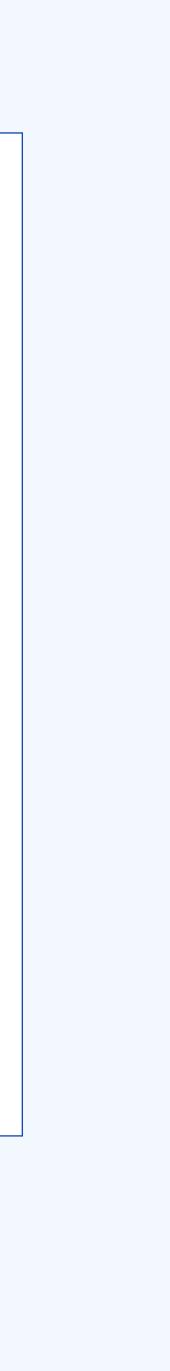
A11y exposure of input type number was fixed in Firefox 74. Not sure about dictation software, but the NVDA issues are fixed as a result.



Dennis Lembrée @dennisl · Feb 27, 2020

Input type=number is another #HTML5 disappointment. A good alternative solution though. #WebDev x.com/yatil/status/1...

9:51 PM · Mar 2, 2020

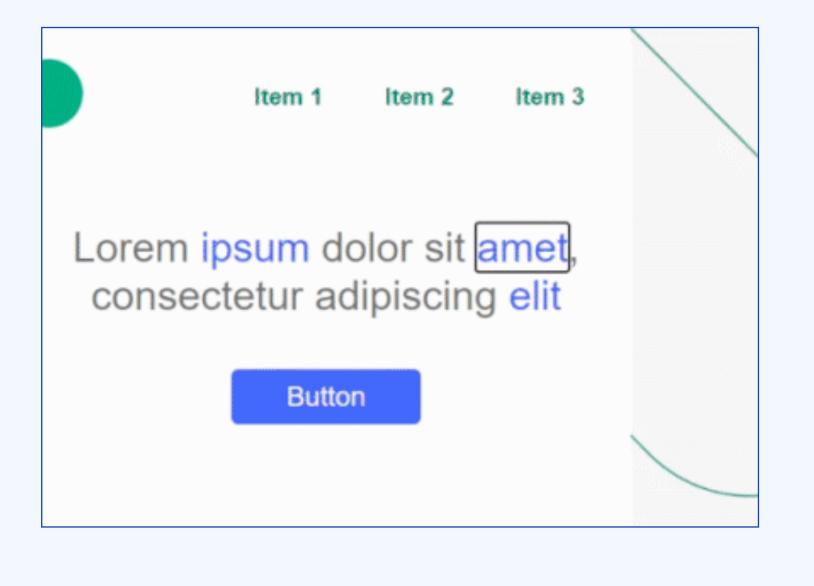


...

	Button
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value 1 value 2 value 3	
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	:

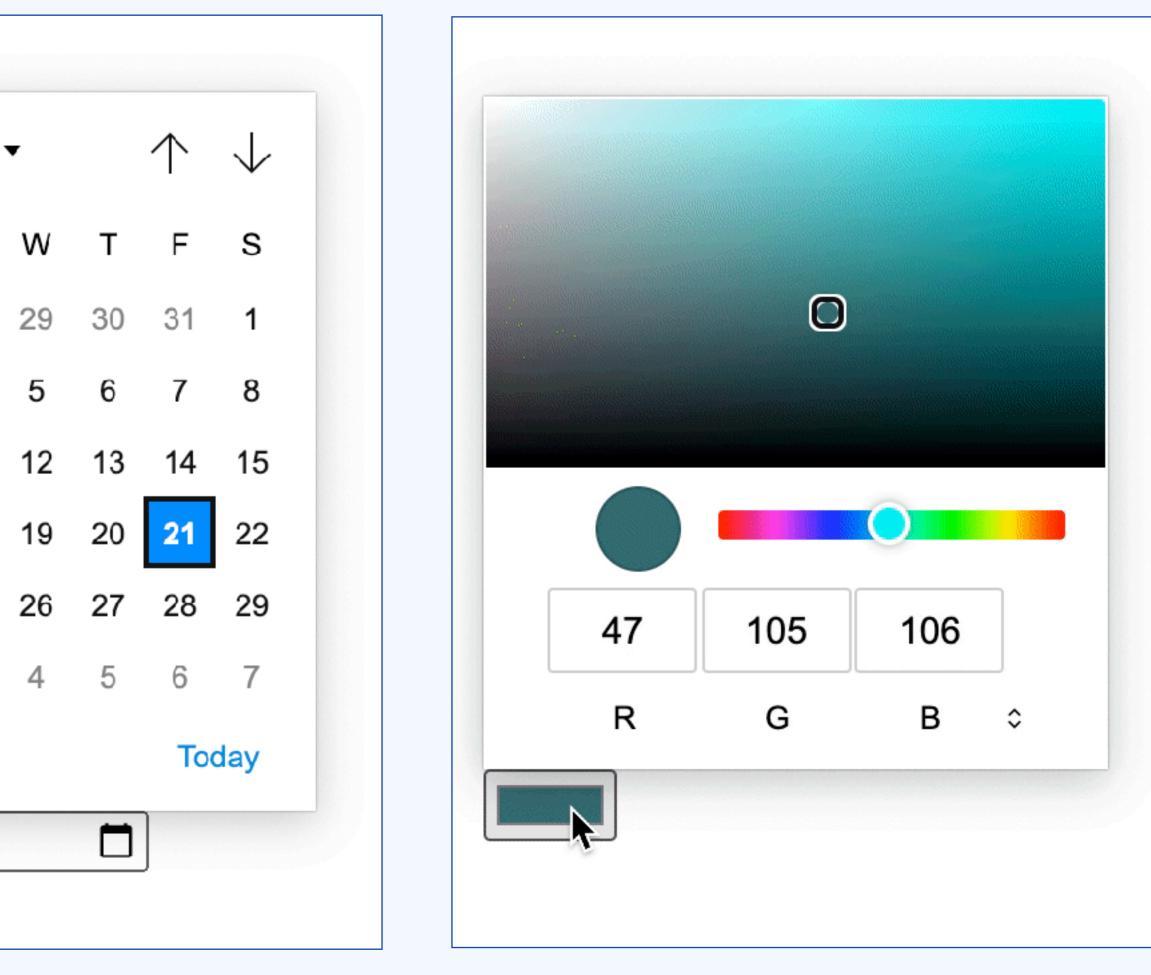
Chromium Blog, Updates to form controls and focus blog.chromium.org/2020/03/updates-to-form-controls-and-focus.html

	Button
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Chromium Blog, Updates to form controls and focus blog.chromium.org/2020/03/updates-to-form-controls-and-focus.html

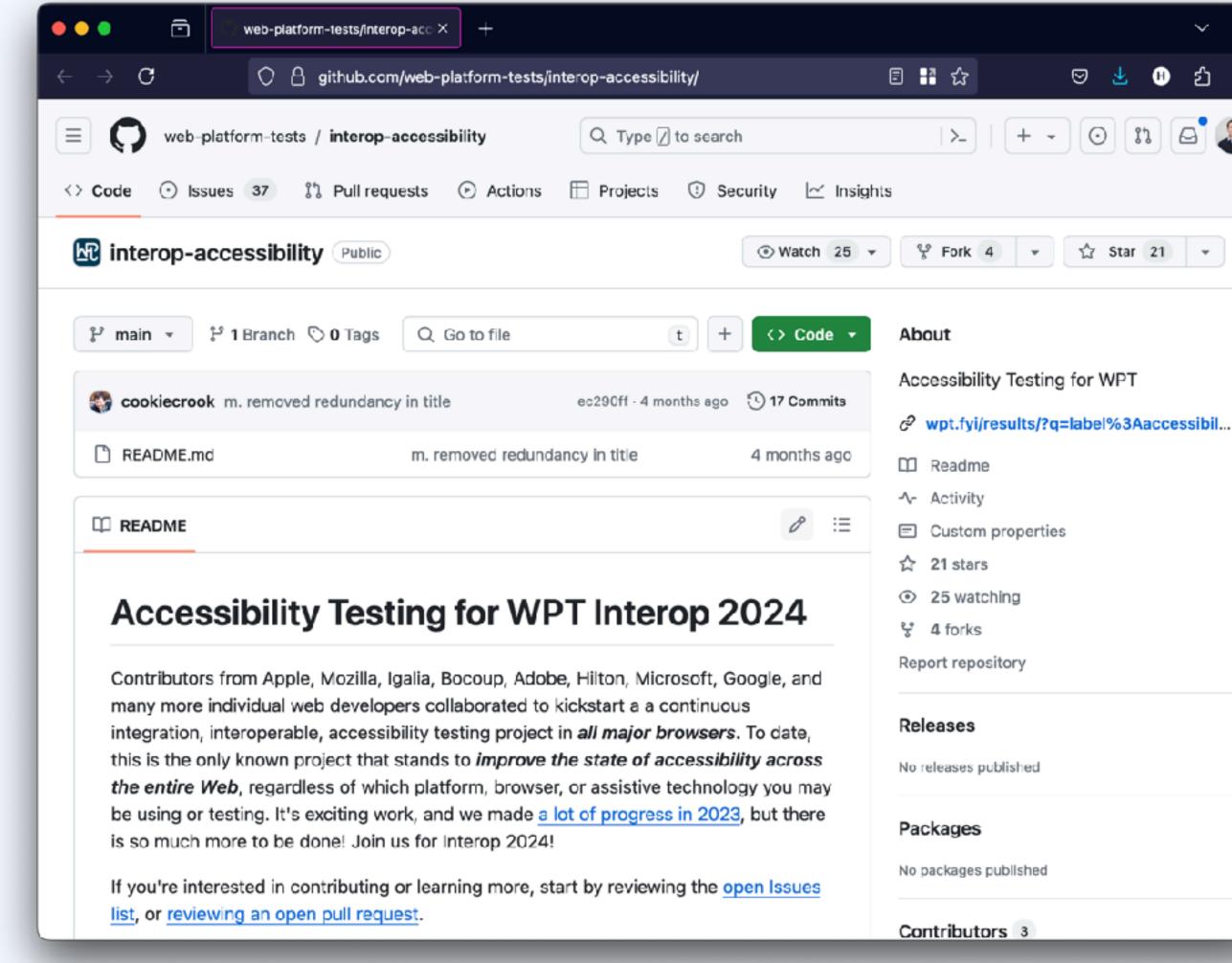




Improvements re making accessibility tree testable

>1000 Web Platform Tests labeled "accessibility"

See: Improving Web Accessibility with Web Platform Tests webkit.org/blog/15400/improving-web-accessibility-with-web-platform-tests/

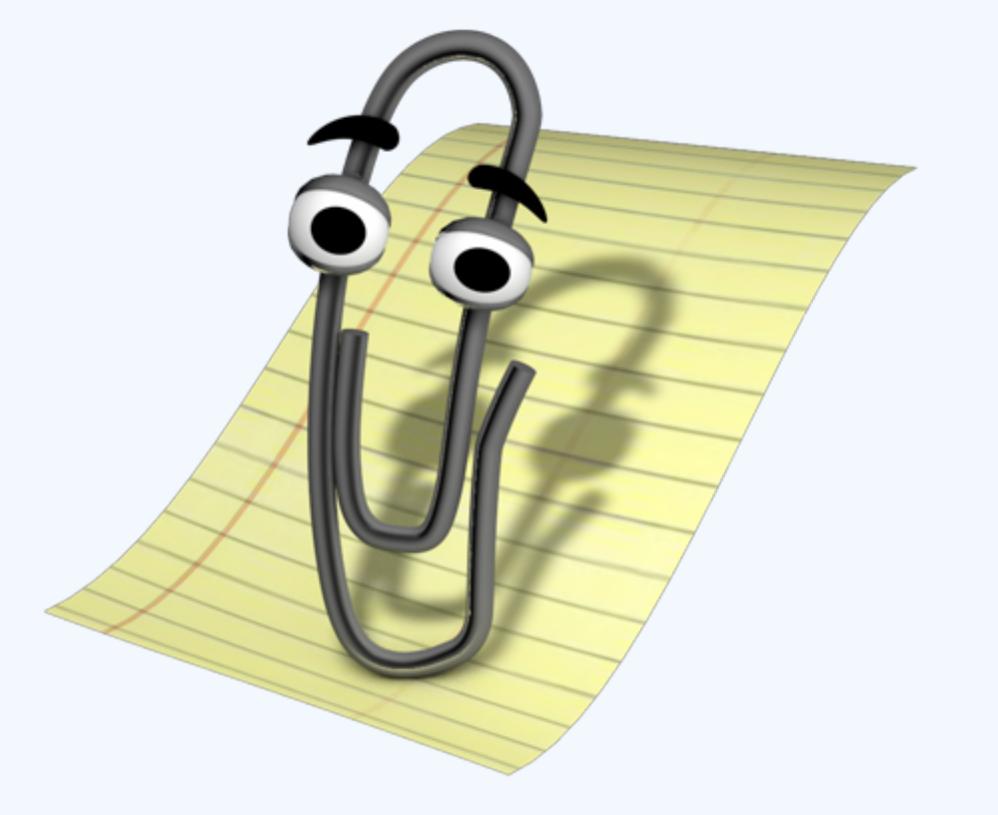


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TAKEAWAY #1

We need web platform / HTML features that are accessible and/or include accessibility and it's not trivial

Building accessibility into systems (2) CMSES



Jooa11y - the Joomla Accessibility Checker

The sample text below is from <u>Wikipedia</u>: 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 björg 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 "th brown one".[1][2] 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)

Errors

A typical page with accessibility or usability errors.

Home

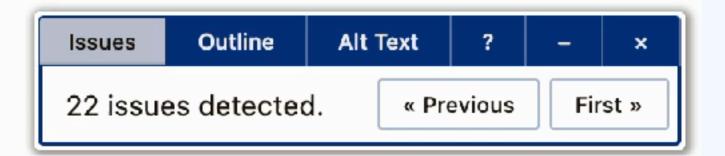
The power of the web is its universality

count.

1 Explore the tips

Checks in Editorially v2, for Drupal (Based on Sally)

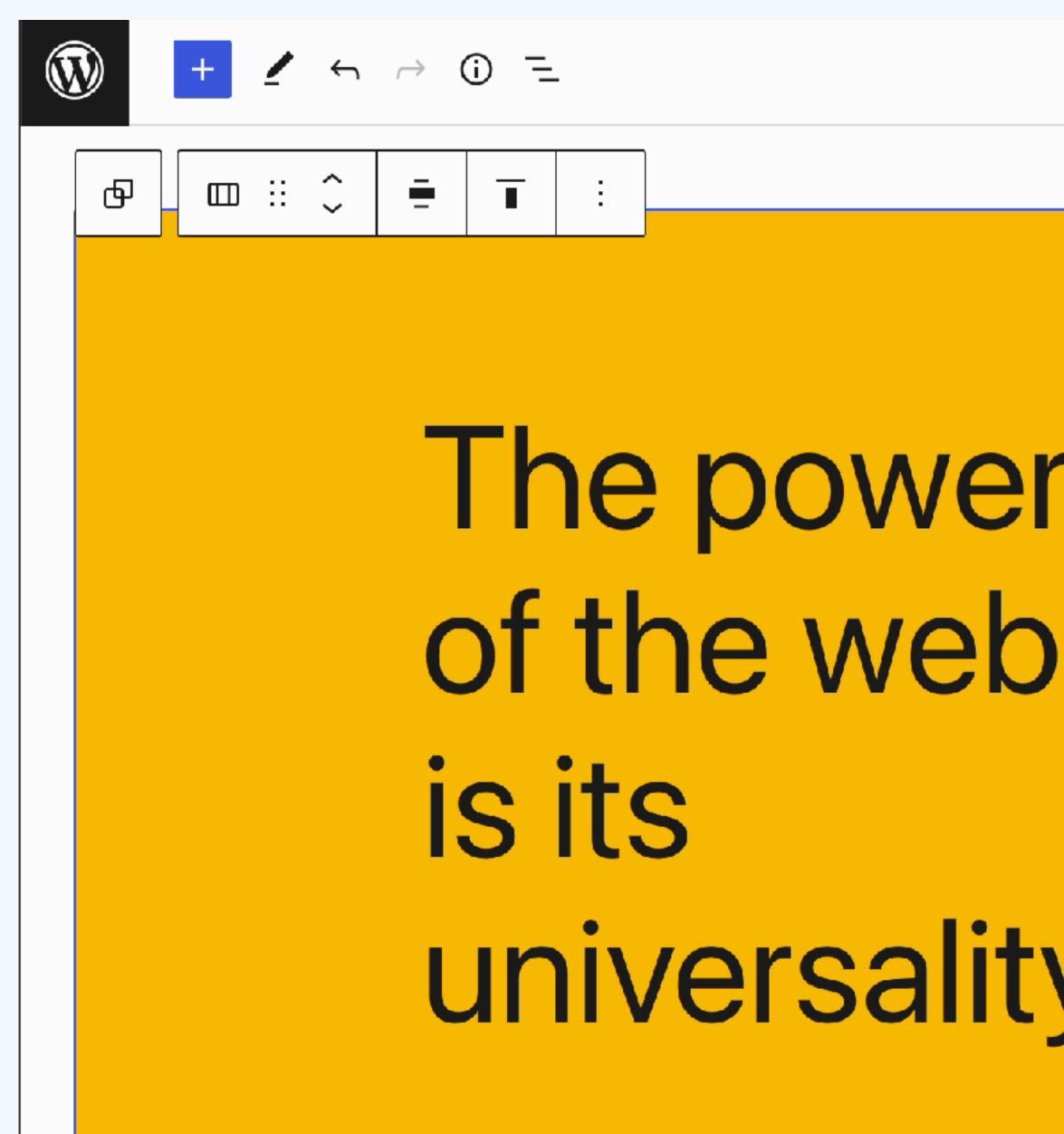
- This page simulates what an *author* would experience if they were logged in to a site
- with Editorially installed: a toggle automatically appears in the lower-right-hand corner
- of the page with issue information. Normally it is an innocuous little checkmark; since
- there were critical issues detected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



k

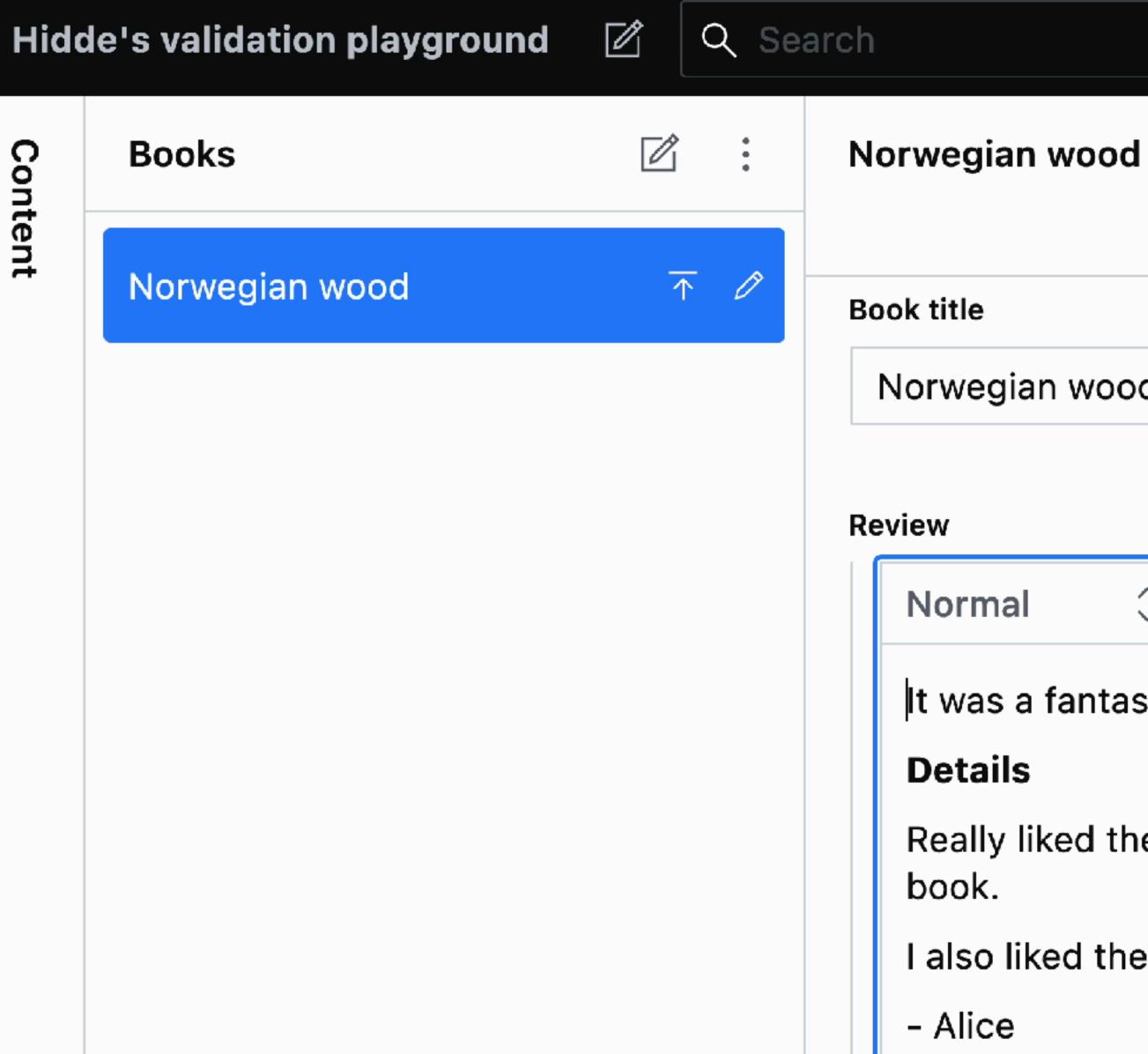


Contrast warnings in Gutenberg, for WordPress



		Preview Publish
		Document Block
		Columns Display content in multiple columns, with blocks added each column.
	•	COLUMNS 2 Stack on mobile
		Color
		🖉 Text
		Background
		Link
y		Typography
		SIZE





Portally, accessible checks for Portable Text github.com/hidde/porta11y

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Curre	nt v	/er
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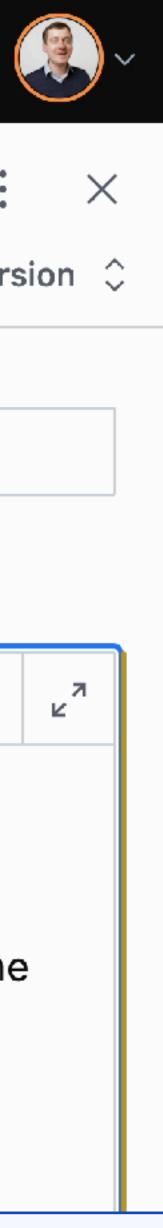
an wo	bod						
I	$\hat{\cdot}$	В	i	\Leftrightarrow	<u>U</u>	S II II 🖉	

It was a fantastic book!

Really liked the main character and how they developed throughout the

Ŧ

also liked these characters:



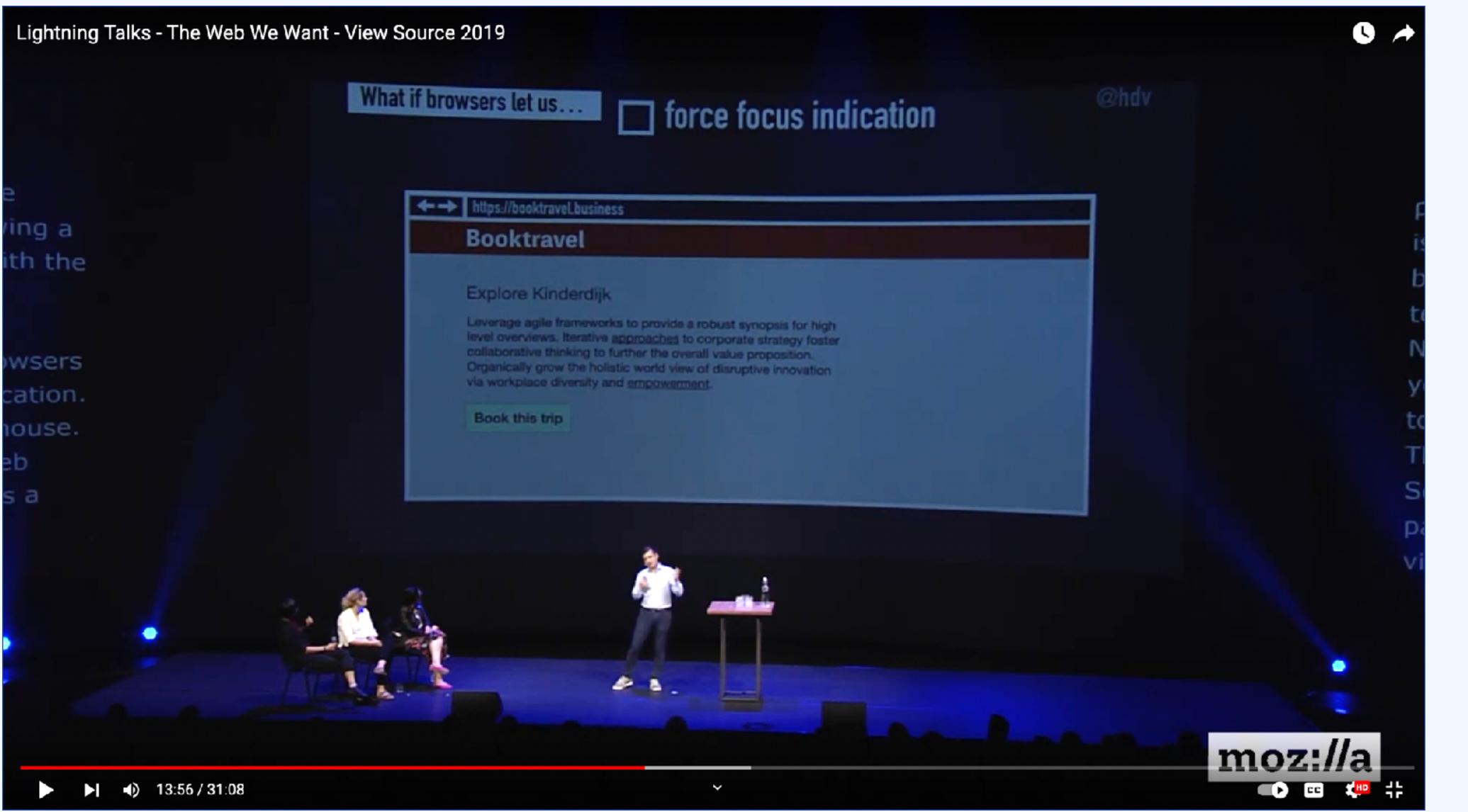


CMSes can be accessibility assistants

TAKEAWAY #2

and it's (usually) not trivial

Building accessibility into systems (3) Browsers



"Could browsers fix more accessibility problems automatically?" talks.hiddedevries.nl/KKW74X/could-browsers-fix-more-accessibility-problems-automatically

Linda McCartney 2 Vegetarian Qua...





Untruncate text

Force colour contrast

Booktravel	
Explore Kinderdijk	
Leverage agile frameworks to provide a robust synopsis for high level overviews. Iterative <u>approaches</u> 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 <u>empowerment</u> .	
Book this trip	



Force focus indication

Suppress autoplay of gifs and videos

TAKEAWAY #3

Browsers could intervene when the web content they serve is inaccessible and it's (usually) not trivial

Building accessibility into systems (4)

Design systems

Design systems can make your patterns repeatable



Building conscious design systems amyhupe.co.uk/articles/building-conscious-design-systems

"Not only is this work not inherently valuable, it is also not inherently harmless"

- Amy Hupe

Design systems can make good patterns repeatable

Design systems can make ^{good or} patterns bad patterns repeatable

Design systems can make patterns repeatable so we'd better ensure they're good

Design systems can teach the nuance between the components

TAKEAWAY #4

Design Systems make code and principles repeatable, ensure you repeat the right things and it's (definitely) not trivial

"Built-in" accessibility

It can be done. It's worthwhile. It's not trivial.

What are the or: questions or: questions you can ask

What could (possibly) go wrong?

Does the icon disappear in dark mode? Will the tabs break with too many items? What if all buttons in a group are named the same? How do we ensure there's useful text in <FormFieldError>?

- Can we force the label component to be used whenever the text field component is used?

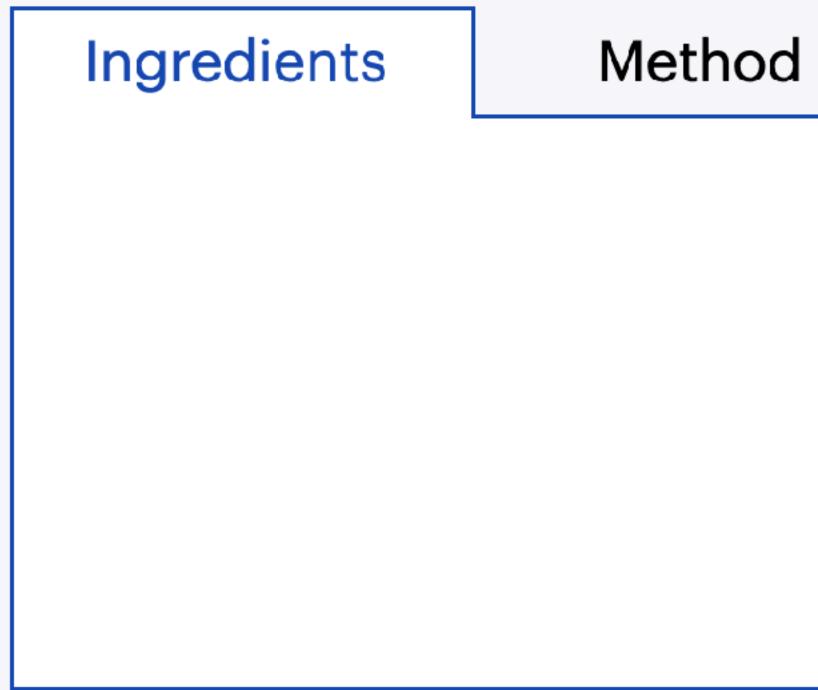
What decides the accessibility of a component?

Save

The quick brown fox jumps

Where does she jump? Over the lazy dog? Well, there is really only one way to find out...

Find out



d Related recipes

Who impacts the accessibility of a UI?

developer



content editor

designer

Who impacts the accessibility of a UI?

researcher

(it's the whole team)





browser that renders it

assistive technology

CMS that is involved with managing it

What impacts the accessibility of a UI?

A design system can impact through components and docs

What design system components can do

- User preference support (dark/forced color mode, text spacing, zoom support)
- Accessibility semantics (roles, states, properties)
- Keyboard support

- Focus management
- Support for accessibility features (images: alt support, video players: caption support, etc)

What design system docs can do

- All variables/settings documented
- Theme validator (colour contrast, spacing etc)



- Full flows: how do components work together?
- Showing the right way

Showing the right way

"Educate, don't berate"

Meryl Evans (in "Progress over perfection")

Used as-is

Components (excluding settings)

InterpretedDocumentation Component settings

TAKEAWAY #6

Components that people reuse and documentation that people interpret are an opportunity to inspire quality

What design system marketing should do

Avoid overpromising the accessibility impact

Say "makes it easier to" instead of "will take care of"

Emphasise the role of design system in a continuous effort



Community of **500+** web professionals in all layers of Dutch government who work together.

We collect the best **components**, **guidelines**, **patterns** and **user research** for digital services.

Collaboration through "Relay Model" with quality checks in each of four stages.





Lessons **Barned**



Make it concrete

Make it concrete

4.1.3 Status Messages — Level AA (Added in 2.1)

In content implemented using markup languages, status messages can be programmatically determined through role or properties such that they can be presented to the user by assistive technologies without receiving focus.

Show techniques and failures for 4.1.3

• Understanding 4.1.3

SHARE ΒΑCK ΤΟ ΤΟΡ



Make it concrete

4.1.3 Status Messages — Level AA (Added in 2.1) In content implemented using markup languages,

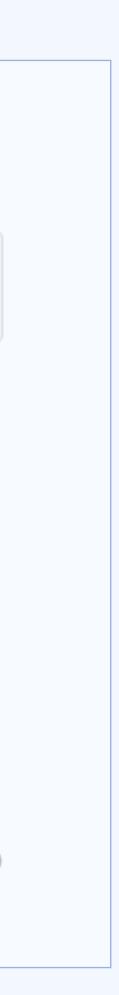
"Add error messages for forms into a live region"

Show techniques and failures for 4.1.

- status messages can be programmatically determined
 - at they can be
 - technologies without

• Understanding 4.1.3

"Only use assertive live regions when information requires the user's attention immediately"



Make it concrete: do's and don'ts

🔴 🕘 💼 🔁 🗐 Labels in een formulier Richtlijn × 🛛 +				
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NL Design System	Handboek Richtlijnen Compone			
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Descriptions				
Foutmeldingen	Doen Het zichtbare label is de to			
Labels				
Links	Hoe heet je hond			
Meerdere stappen				
Placeholders				
Toetsenbord	Niet doen Alleen een placeholder ge			
Uit te vragen informatie	moet invullen, terwijl de onzichtbare toe			
Visueel ontwerp				

Wat is ie lievelingskleur

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escriterium: <mark>2.5.3: Label in na</mark>	am (niveau A).		
e toegankelijke naam.			
	Bekijk code		
gebruiken om te laten zien w	at de gebruiker		
oegankelijke naam een hele a	andere inhoud heeft.		

Back guidance up with research



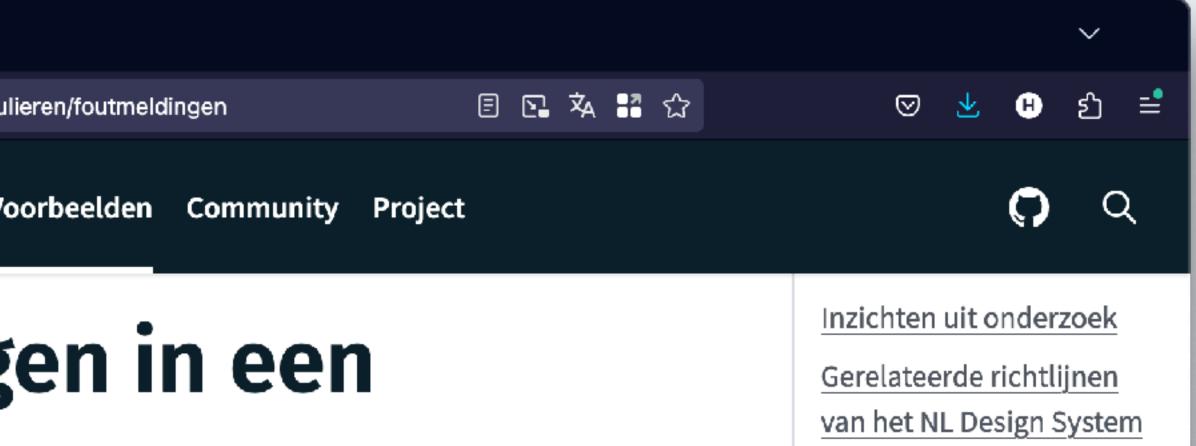
"Accessibility isn't just about meeting standards, it's about usability too"

- Vasilis van Gemert (this morning)



User research as input for patterns

	L Design Syst × + ☞ nldesignsystem.nl/voorbeelden/patronen/formul
	ndboek Richtlijnen Componenten Vo
Startpunt	Foutmelding
Intropagina	formulier
Inloggen	In een formulier kunnen foutmeldingen
Stapelen en uitlijnen	rondom dit patroon.
Niet verplichte velden	← <u>Vorige stap</u> Stap 2 van 4 Uw gegevens
Foutmeldingen	Om u zo goed mogelijk te kunnen helpen, ontv contactgegevens. Deze gegevens worden niet r O Verbeter de fouten voor u
Uploaden Voortgong indicatio	Vul uw naam in Vul uw straat in Vul uw huisnummer in
Voortgang indicatie 'Volgende stap' actie	Naam ① Vullow naam in.
Totgende otap dette	Straat O Vul uw straat in.

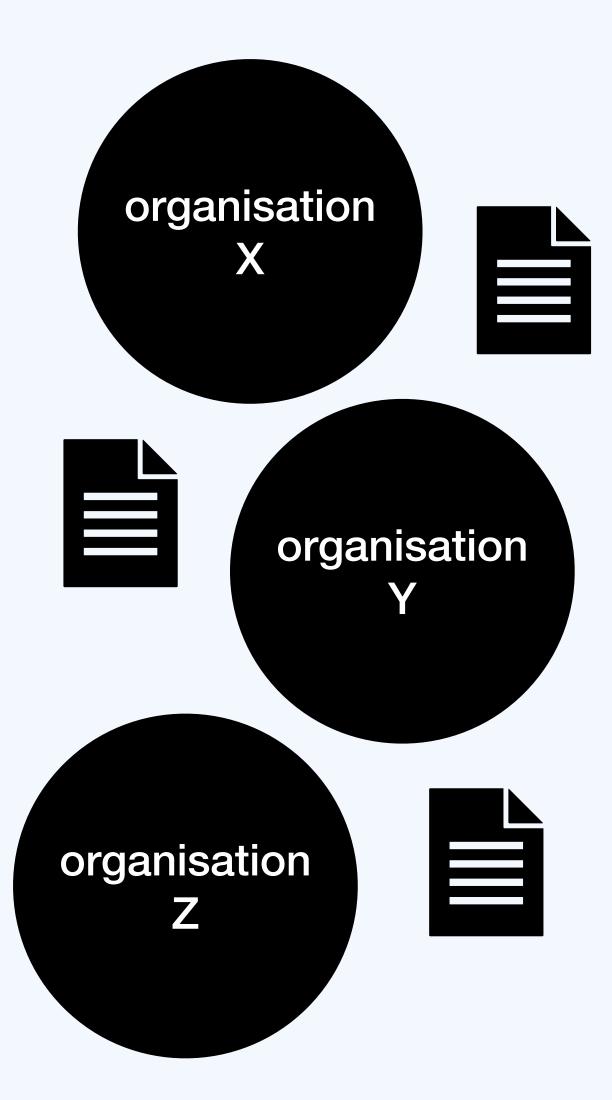


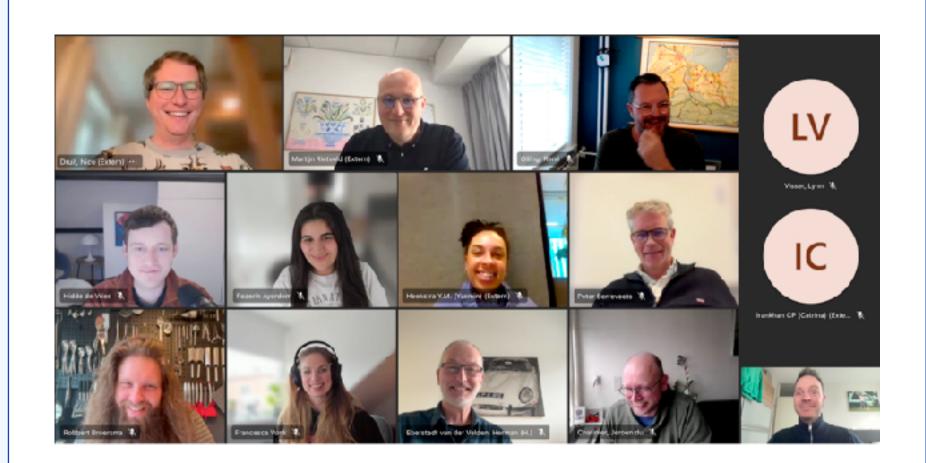
voorkomen. Hieronder verzamelen we informatie

angen we graag uw net anderen gedeeld.

verder gaat

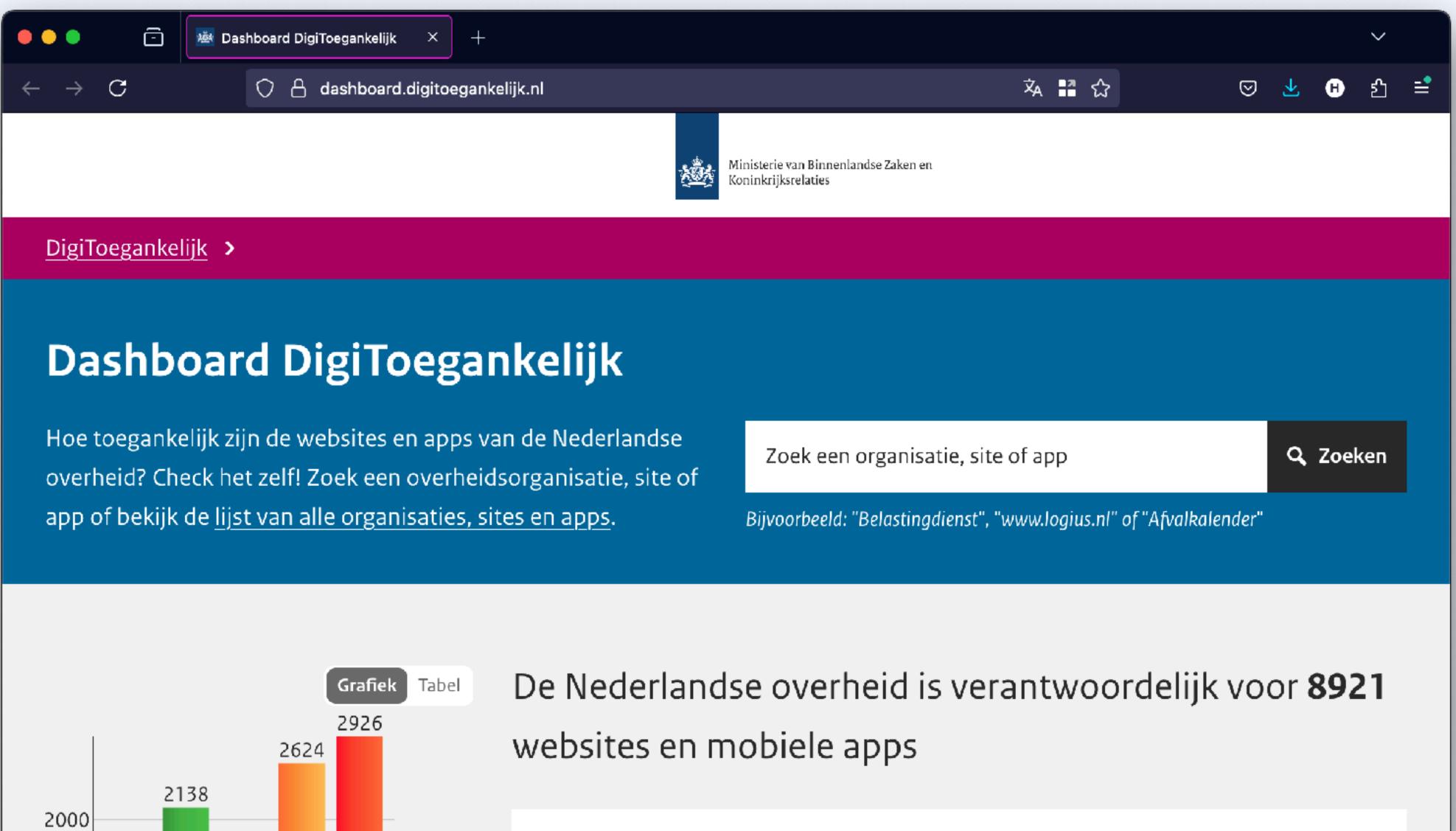
Accessibility audit reports as input for guidelines

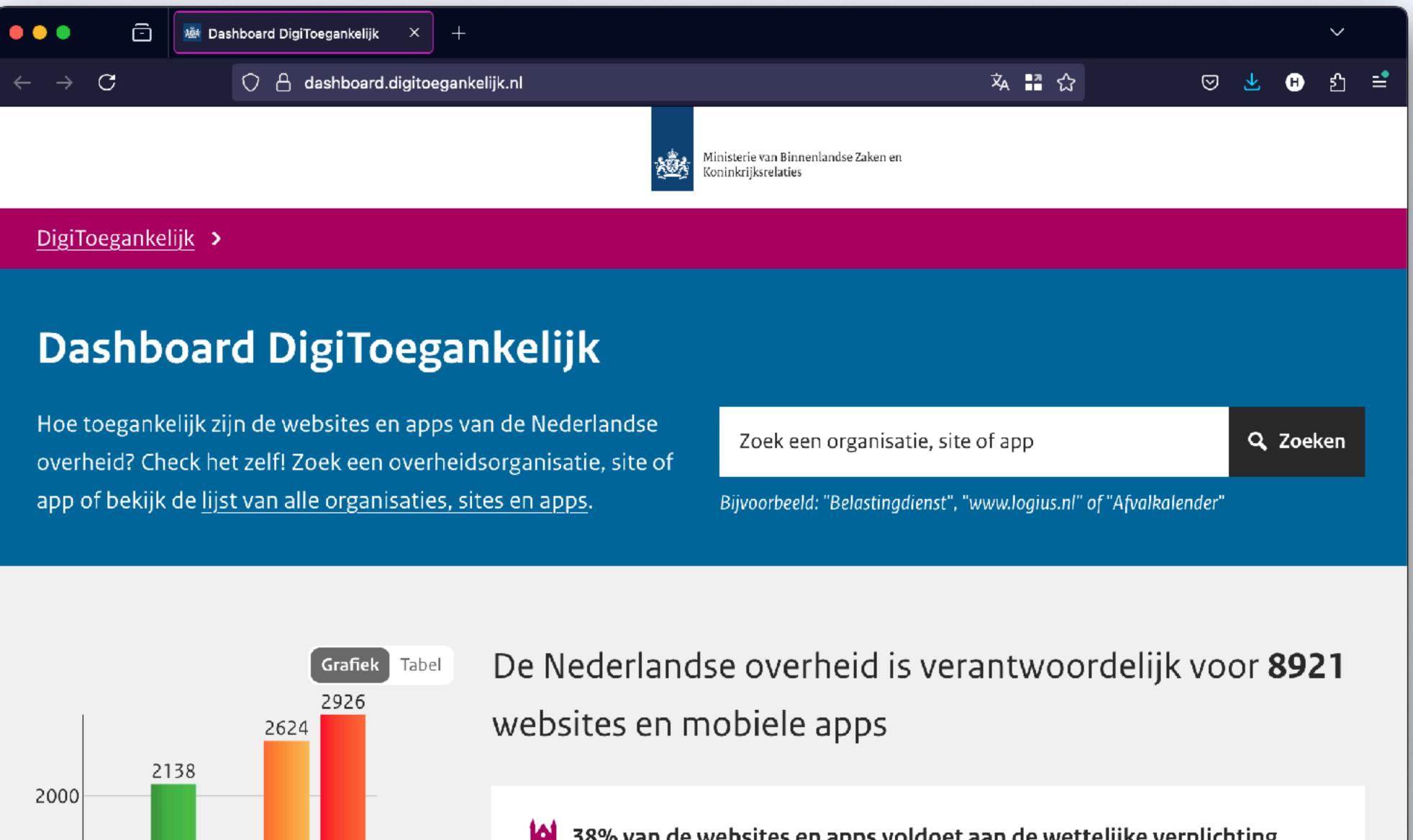




Design Open Hour

Most reported issues as input for guidelines





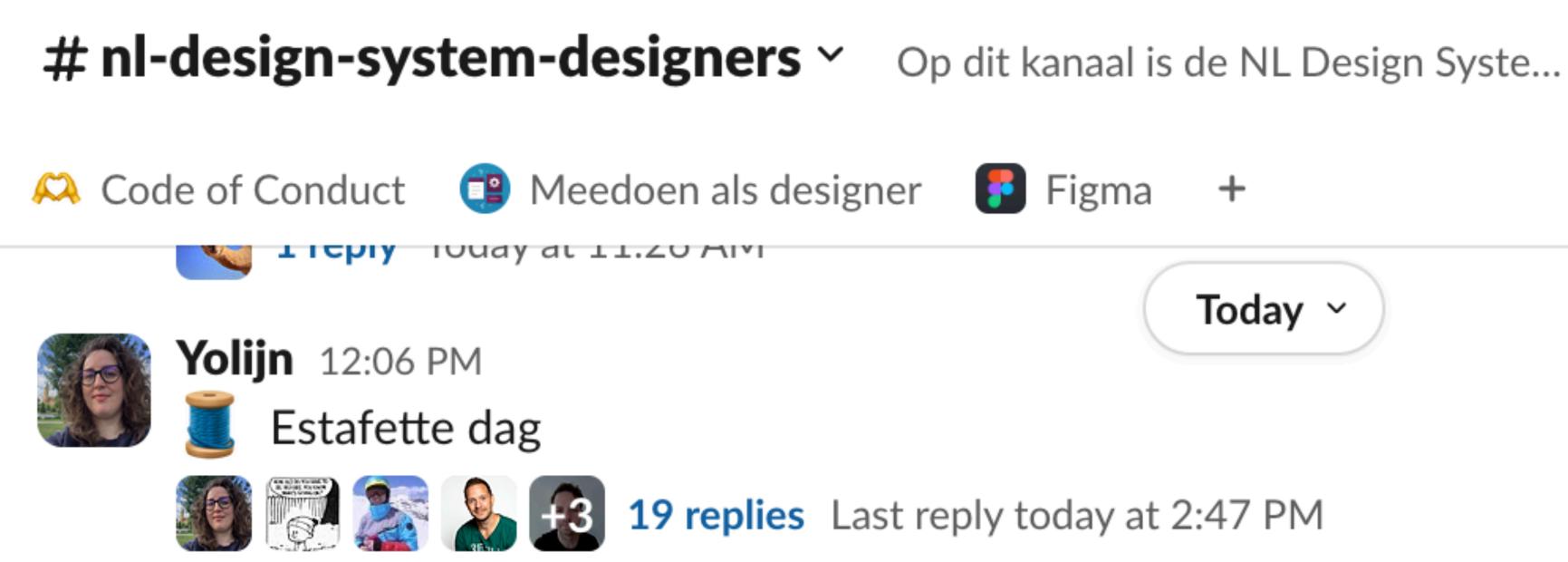


Make it open source

- More perspectives lead to better quality
- Easier to report issues lacksquare
- Easier to steal •
- Most effective against reinvention of wheels
- Instigates collaboration

Work in the open



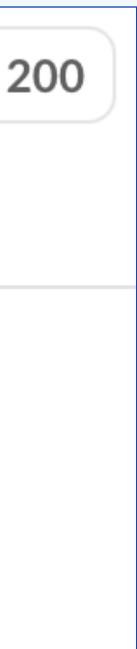


Threads in public channels so that people can peak (low-treshold)



+





Heartbeats 2024

Alles afspelen

Heartbeat

NL Design System

Terugblik samenwerking Amsterdam, Code **Connect in Figma**





Terugblik samenwerking Gemeente Amsterdam, Cod...

NL Design System

Michaëla Tan vertelt over samenwerking KWIV en NL...

NL Design System

Public bi-weekly meetings that are also publised afterwards



Heartbeat Participatieprojecten in de eigen huisstijl met Open Stad en NL **Design System**



Participatieprojecten in eigen huisstijl met Open Stad en ...

NL Design System

NL Design System

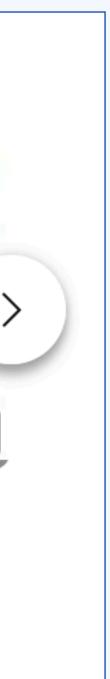
Community Blocks Simple quote voor WordPress Quete with Cite url. Think first, build late Accordion Accordion 30:56 NL Design System

Tom Dekker van Acato vertelt over de NL Design System...

NL Design System

Heartbeat

NL Design System



Secundors knop -> Omgednasid

ry Large -4

Secondary large

Test with people and share the results

Test with people and share the results

Because accessibility is more than WCAG

Test with people and share the results

Because not everyone will test, your results likely have some use for others

gebruikersonderzoeken.nl

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\leftarrow $ ightarrow$ \bigcirc $ ext{ }$ gebruik	ersonderzoeken.nl/docs/onderzoek
Gebruikersonderzoeken Onde	e <mark>rzoek bekijken</mark> Onderzoek (
Onderzoek bekijken	↑ Onderzoek bekijken >
Formulieren >	Ontwerp en usability onderzoek Mijn-
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Ontwerp en usability onderzoek	Ontwerp of
Mijn-omgevingen	onderzoe
Onderzoek MijnAanvragen in Open Inwoner Platform (OIP) – Mijn Omgeving	omgeving
Onderzoek Status Component van MijnZaken	Samengevat: de Mijn Omge
Iconen 🗸	gezien, maar is voor de inw
Bevrijdingsdag, koningsdag en melding icoon	onderdelen. Het onderzoel vertrouwen aan.
Gemeenteraad, burgemeester, afval icoon	Doel van het o
Energietoeslag, millieuzone, rioolheffing, thuiswerken en parkeren icoon	Dit onderzoek moet inzicht k begrijpelijkheid en optimalis

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delen Vragen

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> Mijn Omgeving >

n-omgevingen

en usability ek Mijngen

geving kan niet als één aparte service worden woner een geheel van vier verschillende ek toont het belang van duidelijkheid, rust en

onderzoek

bieden in de gebruiksvriendelijkheid,

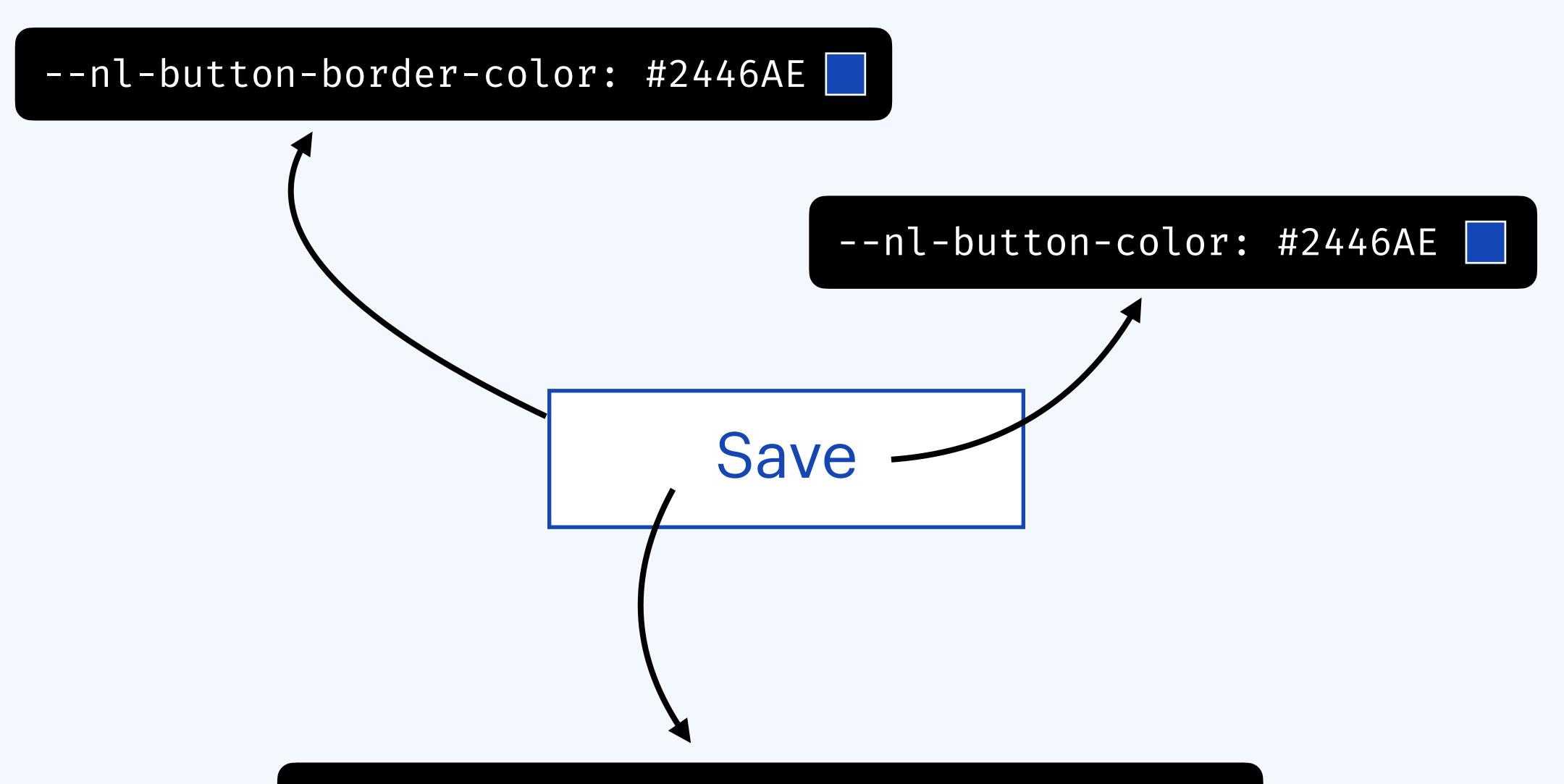
begrijpelijkheid en optimalisatiekansen voor de vier ontwikkelde generieke

Doel van het onderzoek Advies Resultaten en inzichten Wat is er mee gedaan? Opzet Contactinformatie

Bijlagen

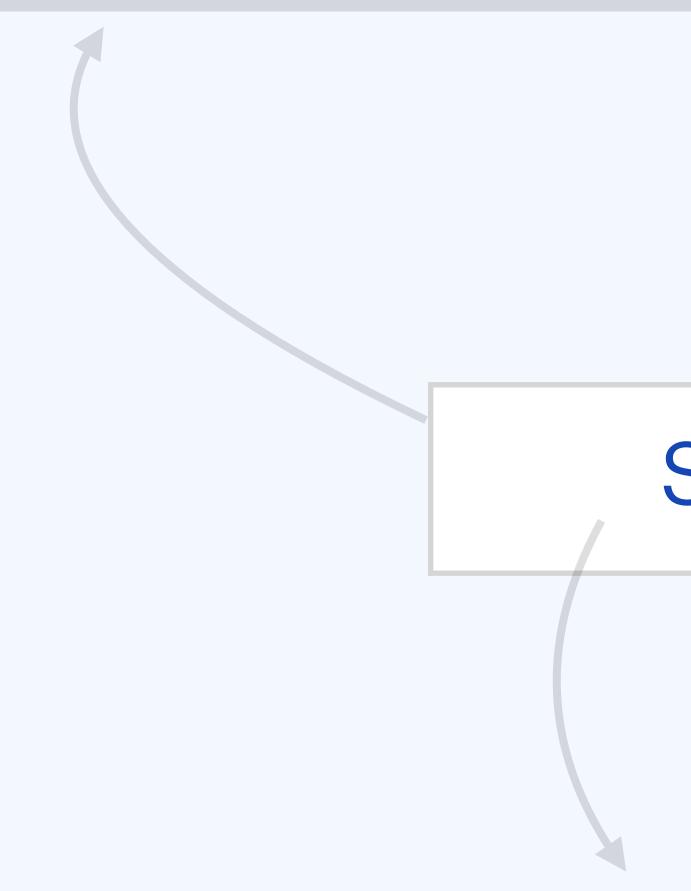
Open design decisions up for automated scrutiny

Save



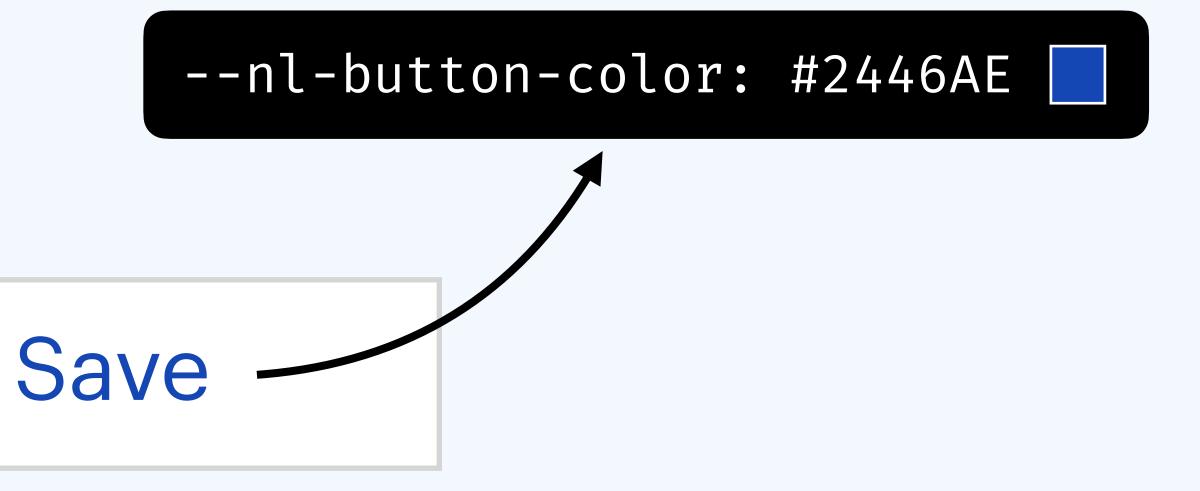
--nl-button-background-color: #ffffff

--nl-button-border-color: #2446AE

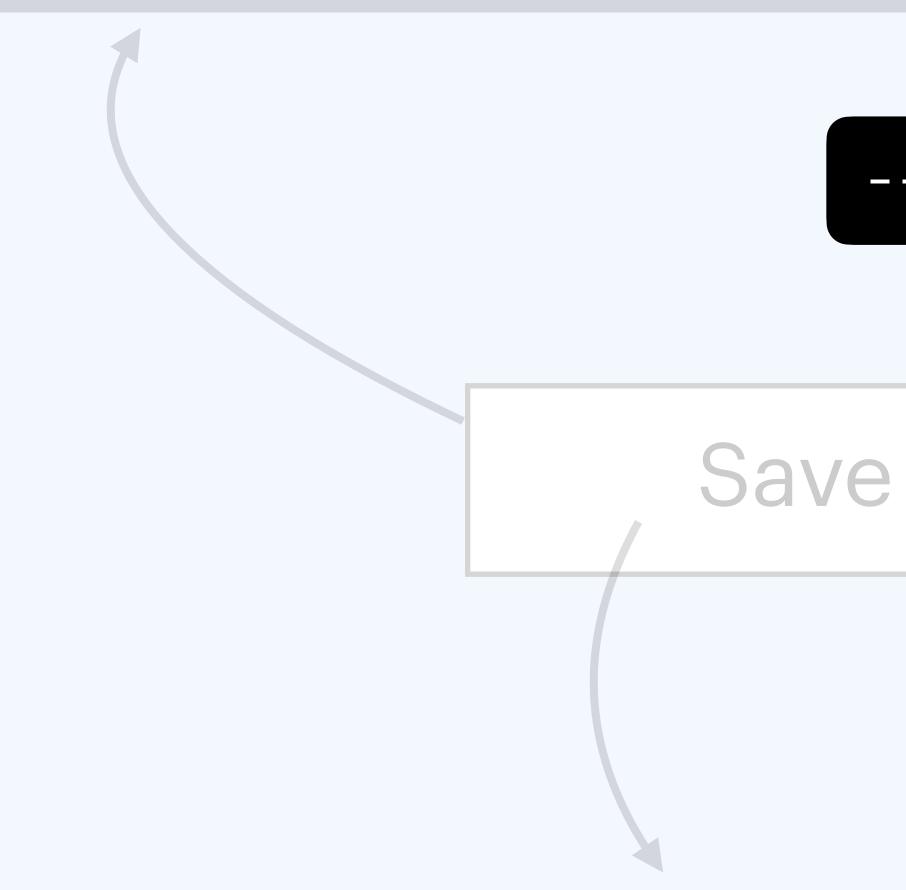


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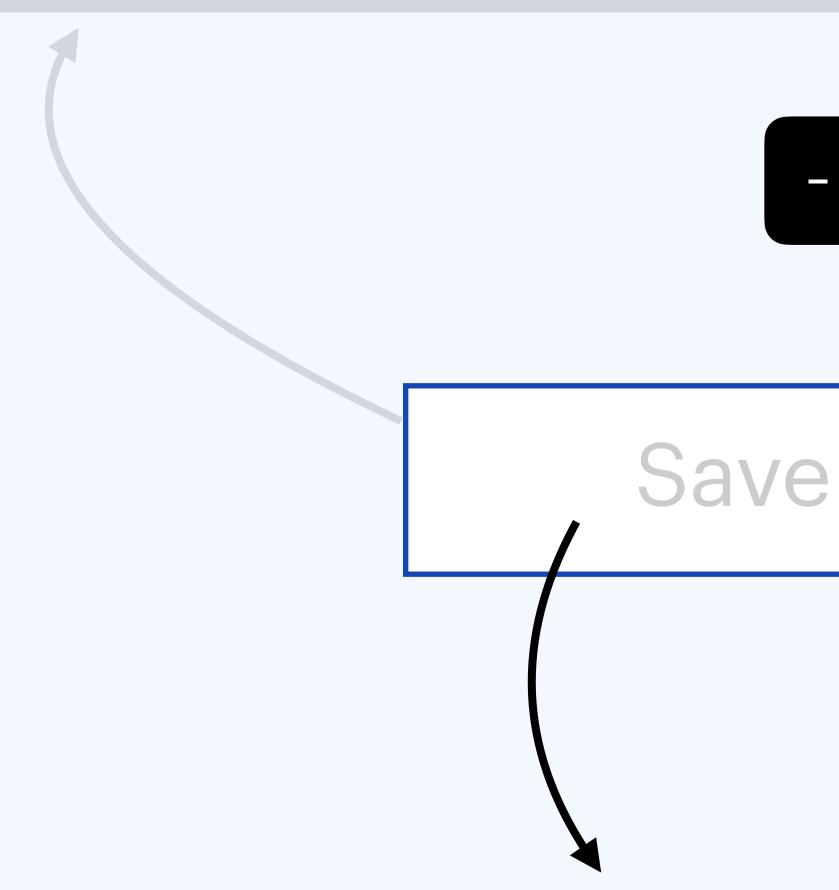


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--nl-button-border-color: #2446AE





--nl-button-color: #cccccc



Verify with process

Verify with process: GOV.UK

GOV.UK Service Manual

Contact the Service Manual team if you have feedback, questions or suggestions. BETA

Service manual > Service Standard

Service Standard

5. Make sure everyone can use the service

Provide a service that everyone can use, including disabled people and people with other legally protected characteristics. And people who do not have access to the internet or lack the skills or confidence to use it.

Contents

Why it's important

Why it's important

Q Search on GOV.UK Give feedback about this page

Verify with process: NL Design System "Relay Model"

- Help Wanted
- Klaar om van de backlog opgepakt te worden
 - \checkmark
 - Community
- Door de community gebouwd volgens NLDS richtlijnen
 - \checkmark
 - Candidate
 - NLDS component, maar is nog in ontwikkeling

 - Hall of Fame
 - NLDS component volgens onze Definition of Done

Do handover to consumers with test steps

Handover: USWDS

COMPONENTS

Button accessibility tests

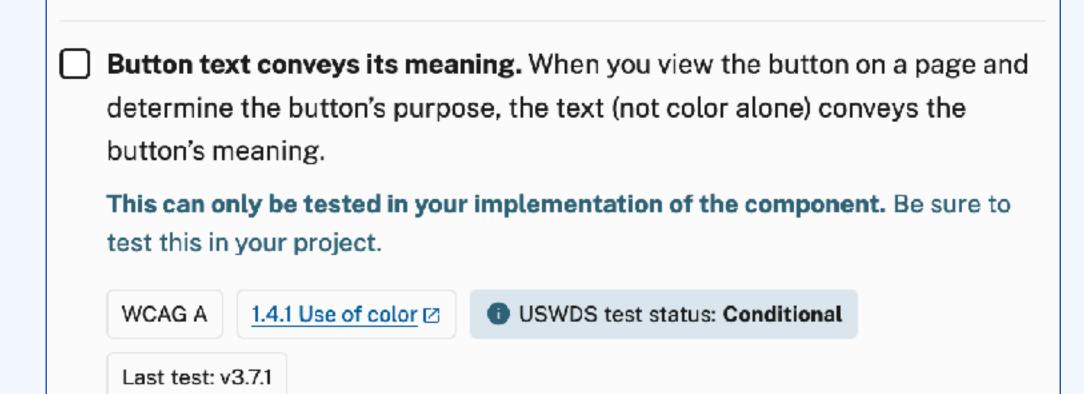
Any USWDS button should pass these manual accessibility tests.

Passed WCAG 2.1 AA

Button accessibility checklist

- ↓ General tests
- ↓ Zoom magnification tests
- ψ Keyboard navigation tests
- ↓ Screen reader tests

General tests



Explain which tests you've done

Explain what consumers of the components should test themselves

- Make it concrete
- Back guidance up with research
 - Make it open source
 - Work in the open
 - Test with users, share the tests
 - Test design tokens
 - Verify with process
 - Handover with test steps

Wrapping up



Built-in accessibility: blessing and curse

Re: in defense of websites...

- Hard to find good code examples •
- Conformance guidance
- AT/browser support vs actualesability
- WCAG often can't to lyou what to do (for reasons, but still)

"Built-in" accessibility

It's not trivial, not a oneoff, not a quick "fix". It can be done. It's worthwhile.



hidde.blog/slides @hdv in most places

Thank you!

hidde.blog @hdv@front-end.social

Slides: talks.hiddedevries.nl