Welcome Before we get started

- 1. Today's webinar is scheduled to last 1 hour including Q&A
- 2. Click the CC button for Closed Captions
- 3. BSL interpretation is available
- 4. This webinar is being recorded and will be available on the website alongside additional resources within 7 days
- 5. Say hello in the chat (select "Everyone" from the dropdown) and ask questions using the Q+A button. You can also use the reaction buttons! 😜 🞉 😊

Get free one-to-one support from our Tech Champions



Dean
Digital Content
Creation



Katherine eCommerce and Merchandising



Adam
CRM and Box
Office Ticketing



Ollie
Digital Marketing
and Strategy



James
Data Analytics
and Insights



Jack
Audience Data
Collection



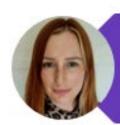
Nicola Social Media



Roberta
Digital
Accessibility



Monica
Search Engine
Optimisation



Katy Paid Social Media



Andy Web Design



Momin Search Engine Marketing



Jacqueline Email Marketing

Different Breed ®

Enhancing user experience for hidden impairments.

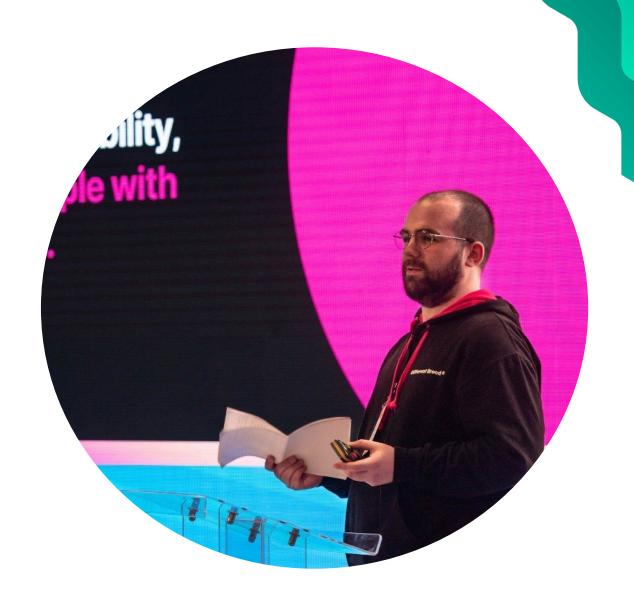
Craig Pryde, 14th January 2025





Who am I?

- Founder of Different Breed ®, a disabled-led tech for good startup that advocates for inclusion through B2B software.
- Ex-software engineer at ATG, Viva Tickets
 & tech lead at various digital agencies
 across the UK.
- I'm autistic and I stammer (speech disability)
 and I couldn't talk fluently till I was in my 20's.
- I use a method of word swapping and humour to deal with my condition.
 - in craigpryde
 - @ craig@differentbreed.events



Living with a hidden impairments

Phone Calls - I find these incredibly stressful and filled with anxiety. I can't get the first word out and people can't see me.

Stranger Danger - Starting a discussion with a stranger is very tough and at times can leave the wrong impression.

Isolation - When speech is a struggle you spend a lot of time alone as the majority of the world operates in a spoken way.

Events & Music - These are my escape. The power of live events is that it brings people together regardless of race, ability or situation. It's the one place I can feel equal.

Have you thought about people like me when it comes to accessibility?

Most haven't... 70-80% of disabilities are not visible.

- What is a hidden impairment?
- Common challenges for hidden impairments
- Compare the latest term of th
- Charting your accessibility journey
- O Q&A

What is a hidden impairment?

An example of a hidden impairment is a visual impairment, this is a condition that affects an individual's ability to see, ranging from mild vision loss to complete blindness.

1 in 12 1 in 200

Men

Women

Are Colour Blind (8% of men, ~0.5% of women).
Achromatopsia Effects 1 in 30'000 - 40'000

Over 2
Million People

Live With Sight Loss

1 in 5 People

Will Live With Sight Loss In Their Lifetime

How do people with a hidden impairment navigate the web?

People with hidden impairments rely on assistive technologies to access and interact with digital content.











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Common challenges for hidden impairments



Struggle to Navigate Experiences



Reliance on Visual Feedback



Dependence on Phone Lines



Increased Demand
On Support



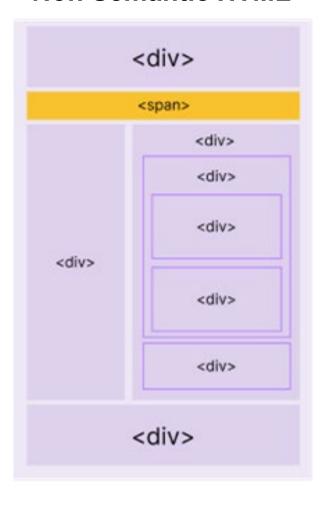
Lost Revenue



Missed Connections

Challenge: The way we structure pages

Non Semantic HTML



No Clear Structure

Non-semantic HTML uses <div> and tags, providing no meaningful grouping or context.

Confuses Assistive Technology

Screen readers cannot identify page sections or navigate efficiently without landmarks.

Headings Misused

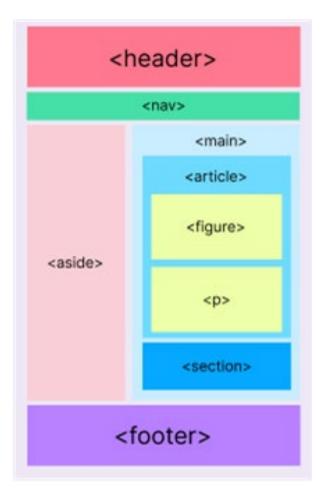
Headings are styled visually (e.g., for size or boldness) instead of reflecting the page's hierarchy.

Poor User Experience

Users with disabilities face increased frustration and abandonment due to unclear navigation and structure.

Solution: The way we structure pages

Semantic HTML



Clear Structure

Semantic HTML provides clear content grouping and meaningful context, making it easier to understand the page layout.

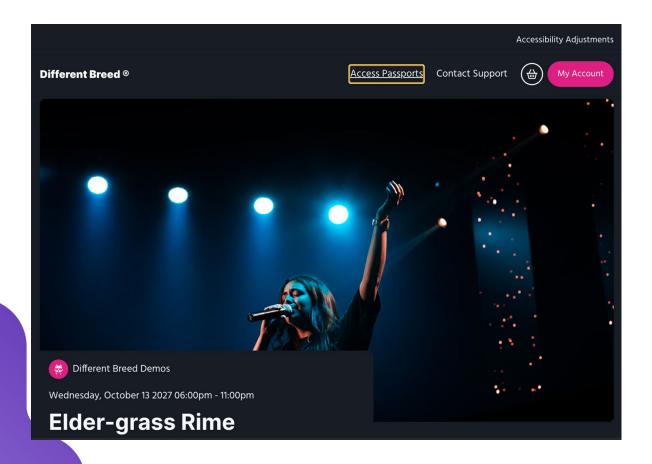
Easier for Assistive Technology

Landmarks and semantic tags allow screen readers to identify sections and navigate efficiently, improving accessibility.

Proper Use of Headings

Correctly structured headings group content naturally, enabling users to skip through sections and find what they need quickly.

Challenge: Excessive navigation



Mega Menus Create Overhead

Users must navigate through large, repetitive menus on every page, even when they're trying to access the main content.

Repetitive Navigation

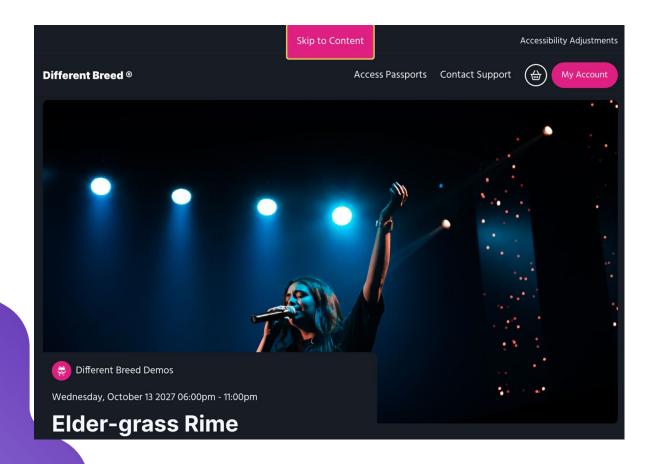
Users need to perform the same actions (e.g., tabbing through a long menu) on every step of their journey, wasting time and increasing frustration.

No Direct Access

Without skip links or jump-to features, users are forced to tab sequentially through entire pages to get to key content or features.

28 Menu Items = 28 Tabs Per Page (4 x Pages In Flow: 112 Tabs)

Solution: Links that skip to desired areas

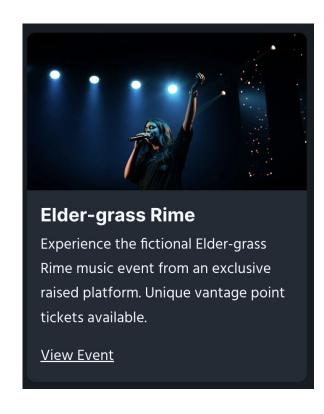


Skip To Landmarks - Provide links that let users jump directly to key sections, such as the main content or footer, avoiding repetitive tabbing through navigation menus.

Go Beyond With Skip To Features - On important pages, include skip links to natural next steps, like checkout or basket review, to streamline the user journey.

Challenge: Visual changes and context

Add To Cart



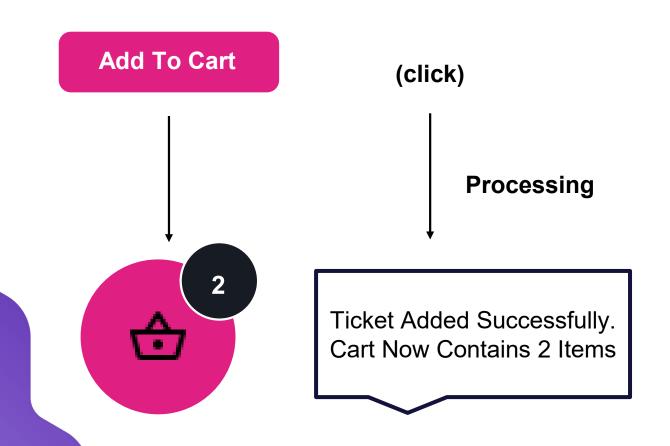
Navigation Links

Links like "View Event" or "Learn More" rely on visible context, but screen readers only announce the link title, leaving users unsure of its purpose.

Feedback On Actions

Visual updates (e.g., popovers, cart icons) are missed by screen readers, leaving assistive tech users unaware of key interactions.

Solution: Provide feedback and context

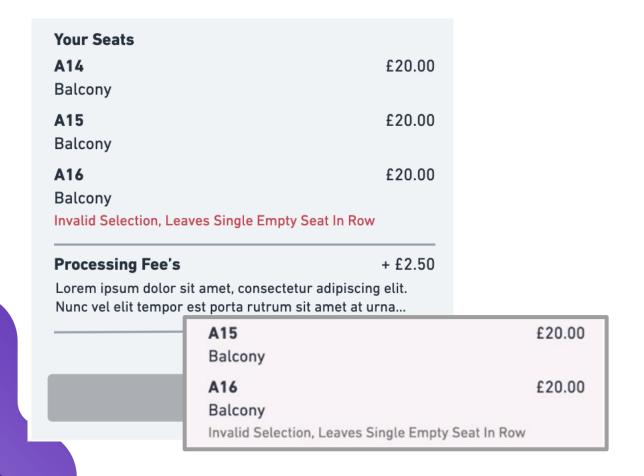


Design For Non-Visual Feedback - Use announcements like "Cart Updated" or "Error: Tickets are no longer available" to inform users of the results of their actions.

Drive Meaning With Context - Enhance button and link labels with details that provide clarity. For example:

- Instead of "View Event," use "View Event: Dinosaur Exhibit."
- Instead of "Add to Cart," use "Add 2 x
 General Admission Tickets to Cart."

Challenge: Reliance on colour for feedback

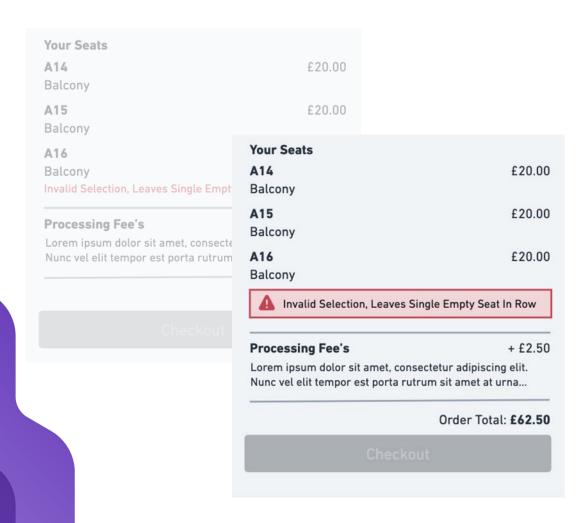


Reliance On Colour Alone - Error states, like "Invalid Selection," are shown only in red text, making them indistinguishable for users with protan colour blindness and causing confusion.

Confusing for Assistive Tech Users -

Without text or auditory cues, screen reader users cannot understand the issue or how to resolve it.

Solution: Contrast and alternative feedback



Ensure High-Contrast Colours -

Choose a palette that meets a minimum contrast ratio of 3:1 to ensure all users can distinguish elements.

Introduce Indicators - Add text or symbols to error messages and important statuses to ensure feedback is clear and distinguishable.

Provide Feedback - Ensure when a field is invalid it provides the appropriate ARIA attributes to ensure the error is indicated to screen reader users.

How do we test for web page structure, feedback

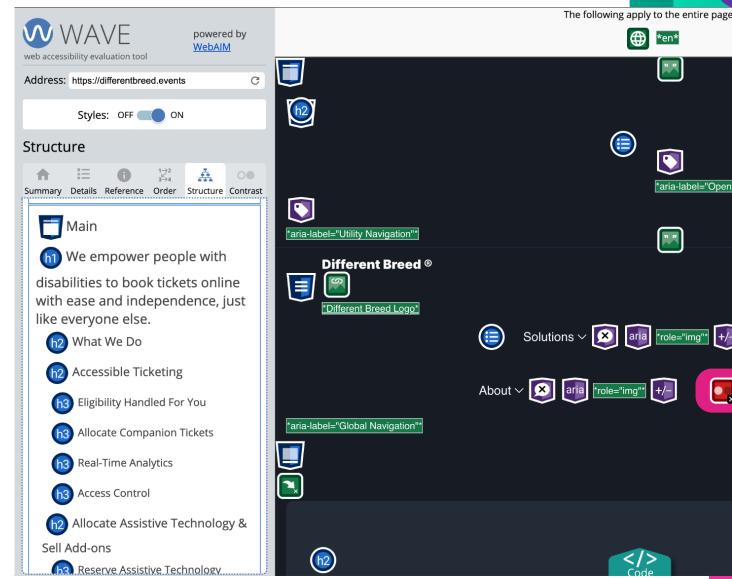
and colour?

Unstructured Pages

- Use <u>WAVE</u> or <u>Lighthouse</u> to analyze <u>headings</u> and <u>landmarks</u>.
- Test navigation with a <u>screen reader</u>.

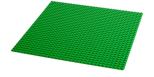
Excessive Navigation

- Use Tab and Shift+Tab to test skip links.
- Check for proper <u>semantic tags</u> (e.g., <nav>, <main>).



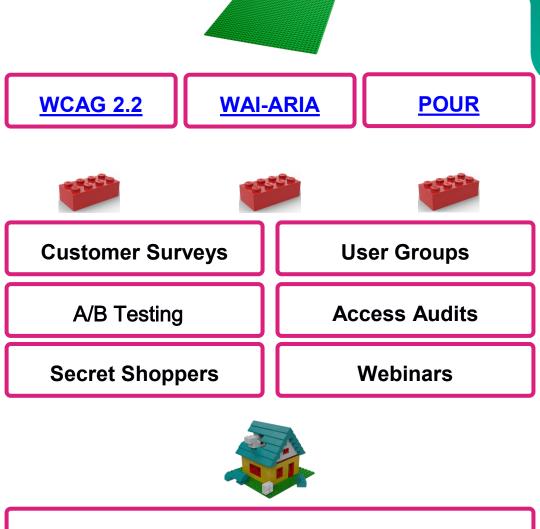
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Charting your accessibility journey

- 1. Take Stock Of Where You Are
- 2. Find Your Interest
- 3. Start To Understand Your Audience
- 4. Involve Us In Your Testing
- 5. Enjoy The Journey



Accessibility Road Map

How can Different Breed ® help you do this?

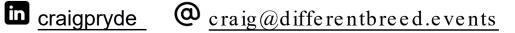
- 1. Meet The Needs Of Your Customers
- 2. Understanding Your Audience
- 3. Improve With Feedback
- 4. Anticipate Demand

Start Free: https://differentbreed.events



Together, we can be a **Different Breed ®**







Q&A

Get in Touch



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@ace_dcn



Showcase/Digital-Culture-Network



DigitalCultureNetwork



Digital Culture Network

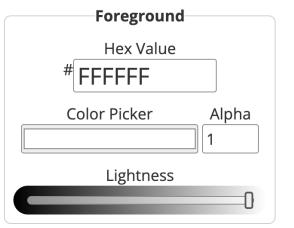
Useful Resources

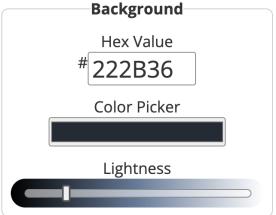
Automated Tools

- Use <u>WebAIM's Contrast Checker</u> to test text and background contrast.
- Run <u>Lighthouse's Accessibility Audit</u> in Chrome DevTools to identify colour-related issues.

Simulations and Manual Testing

- Simulate Colour-Blindness using <u>Chrome's</u> <u>developer tools</u> or tools like Sim Daltonism.
- Test in Monochrome mode to verify usability without relying on colour.
- Enable High Contrast Modes on devices to ensure readability under reduced colour perception.





Contrast Ratio
14.31:1