Decoding the Impact Accessibility Overlays through a Scientific Lens

Accessibility Overlays



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Accessibility Overlays are simply AMAZING!?

Decoding the Impact Accessibility Overlays through a Scientific Lens

Daniela Kubesch MSc MSc MSc (she/her)

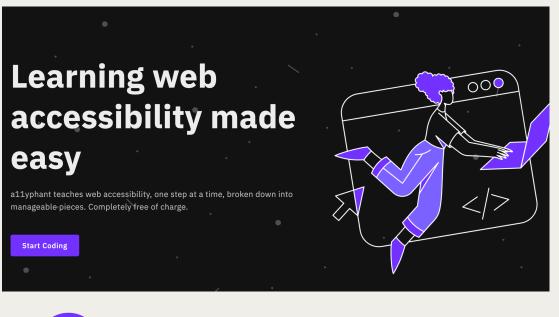
Accessibility Engineer* who is passionate about user experience and inclusive design.

*Coding / Testing / UX Design / Teaching

Studies

Web Engineering [Austria]

Digital Service Innovation [Sweden]





allyphant.com

The easy way to learn web accessibility

Study Design

Technical Evaluation

Against WCAG 2.1 AA

User Study

21 individuals with permanent visual impairments

Expert Interviews

2 consultants, 2 company representatives

In their current state, accessibility overlays do not deliver on their promises and are a disability dongle.*





In their current state, accessibility overlays do not deliver on their promises and are a disability dongle.*

*But people with impairments are still optimistic and hopeful that accessibility overlays will be useful in the future.



Three Guiding Principles

Do not prioritise some users' experience over the deterioration of others.

26 - 2(+2)WCAG 2.1 A / AA Violations

Issue

Element Order



Issue

Element Order



On

Illogical Headings



Martin Brandlmayr Schwaz, Firma Trigonos

Komponist und Perkussionist: Martin Brandlmayr span.italic 262.75 × 32.5

• Martin Brandlmayr: **Dance around the Table.** 2022, UA, 55'

<H3>

Martin Brandlmayr (*1971, AUT), Komponist und Perkussionist, Grenzgänger zwischen akustischer und elektronischer Musik, zwischen Notation und Improvisation und Mitglied der Avantgarde-Band Radian, spielt in seinem

Issue

Illogical Headings

Music Festival <H1> Presse <H1>

Sehr geehrte Medienvertreter,

hier finden Sie Presseinformationen, Pressebilder (alphabetisch sortiert) zum Festival und Festival und Fir Ihre Berichterstattung. Darüber hinaus verfügen wir über weitere Pressefotos und senden Ihnen gerne eine Auswahl zu. Alle Bilder sind bei Nennung des Urhebers honorarfrei, solange sie für die Berichterstattung über Schwaz verwendet werden.

Wenn Sie an unseren Presseinformationen interessiert sind, geben Sie uns gerne Ihre Daten bekannt.

Pressekontakt:

Presseaussendungen



Schwaz: 31. Festivalausgabe unter dem Motto "Konspirationen"

28.05.2024 | Das Festival steht in diesem Jahr unter dem Motto Konspirationen und will in Zeiten der zunehmenden Polarität den Fokus auf Verbindendes richten. Konspiration lässt sich dabei – im Gegensatz zum landläufigen Verständnis des Begriffes als Aufruf zur Verschwörung – als Inspiration zum kollektiven Erleben verstehen. Programmiert vom künstlerischen Leiter Christof Dienz und "Curating Artist" Eva Reiter.

-Schwaz-2024---Pressemappe.pdf

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Pressebilder

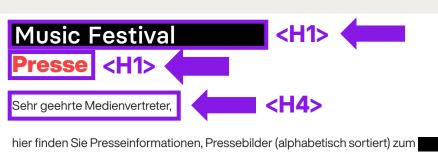
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Ihre Erfahrung auf dieser Website wird durch Cookies verbessert.

COOKIES AKZEP-TIEREN Off Off

Issue

Illogical Headings



Festival und für Ihre Berichterstattung. Darüber hinaus verfügen wir über weitere Pressefotos und senden Ihnen gerne eine Auswahl zu. Alle Bilder sind bei Nennung des Urhebers honorarfrei, solange sie für die Berichterstattung über Schwaz verwendet werden.

Wenn Sie an unseren Presseinformationen interessiert sind, geben Sie uns gerne Ihre Daten bekannt.



Schwaz: 31. Festivalausgabe unter dem Motto "Konspirationen" 28.05.2024 | Das Festival

steht in diesem Jahr unter dem Motto

<H4>

Konspirationen und will in Zeiten der zunehmenden Polarität den Fokus auf Verbindendes richten. Konspiration lässt sich dabei – im Gegensatz zum landläufigen Verständnis des Begriffes als Aufruf zur Verschwörung – als Inspiration zum kollektiven Erleben verstehen. Programmiert vom künstlerischen Leiter Christof Dienz und "Curating Artist" Eva Reiter.

-Schwaz-2024---Pressemappe.pdf





Participant Opinion

"Just because it looks like many elements have now been made accessible doesn't mean it's optimal. If I have one thousand headings, it doesn't really help me to get an overview."

– Participant T5

Issue

Image Description



A close-up of a cat's face

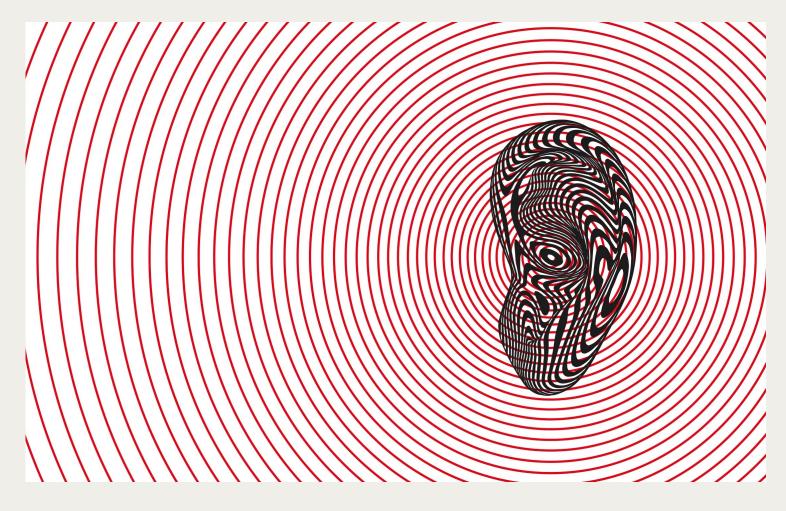


Image Description

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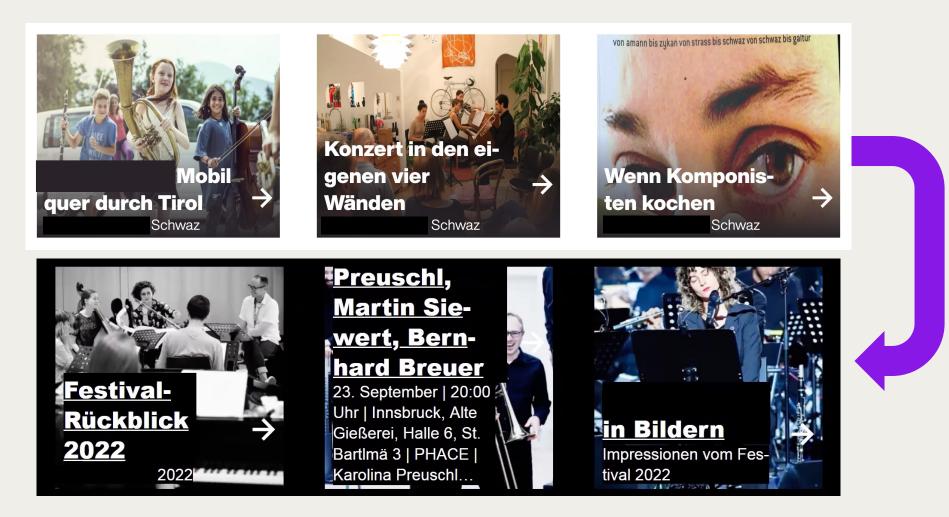
A group of people in a room



What about improvements?!

Legibility





Issue or Improvement? Clarity



? role="presentation"

attensam quartett© Barbara Brandstätter

<u>↓</u> <u>Herunterladen</u>





Bauckholt, Carola (c)Astrid Ackermann ↓ Herunterladen

"Link, Download"

"Link, This Link Opens An Image Download"



Do these improvements make it okay to use Accessibility Overlays?

No. Do not prioritise some users' experience over the deterioration of others.



Nothing about us, without us!



Did not detect an Accessibility Overlay

Issue

Accessibility Overlay Recognition



Opinion

"Is this the symbol for the accessibility overlay? Such a stick figure does not automatically mean that it is an overlay, it is just a stick figure."

– Participant T14

Terminology

Blind?

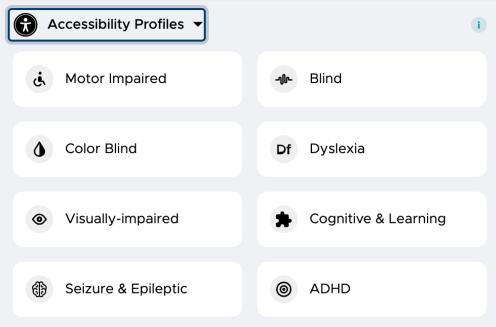
Visually Impaired?

Accessibility?

Approachability?

Terminology

Impairment Profiles



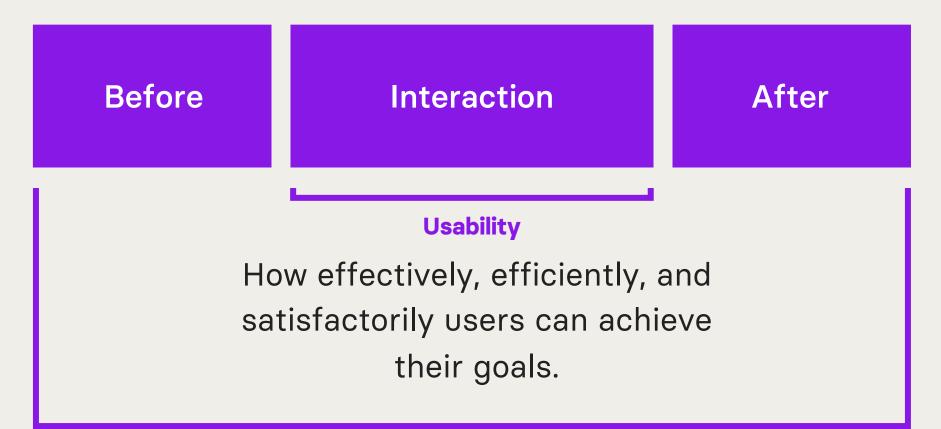
Opinion "Do I have to choose a profile now? What if multiple apply to me?"

– Participant T8

Opinion

"I would have to be very interested in this website to work my way through this."

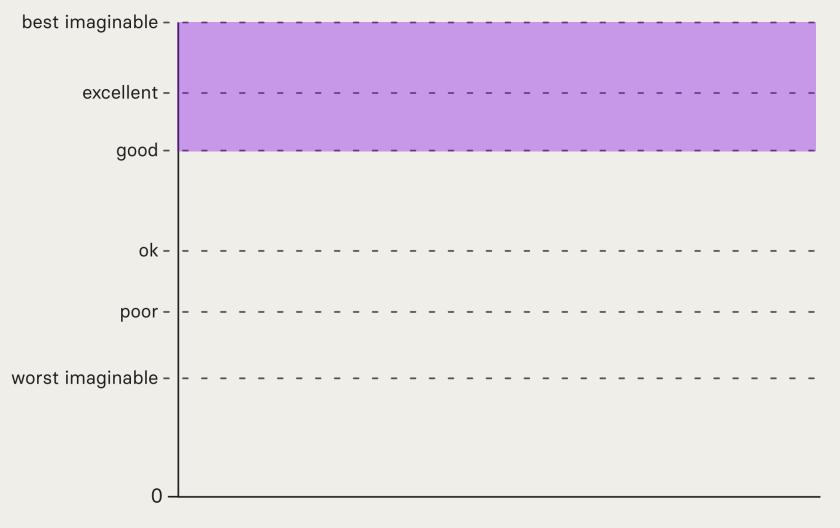
- Participant T1



User Experience

A person's actions, sensations, considerations, feelings, and sense-making before, during and after interaction.

Usability

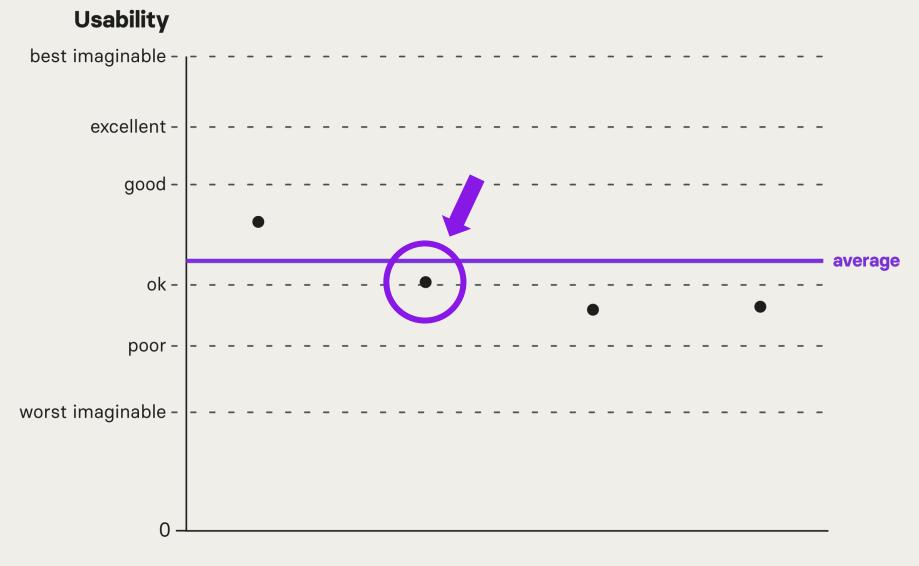


Level of interaction

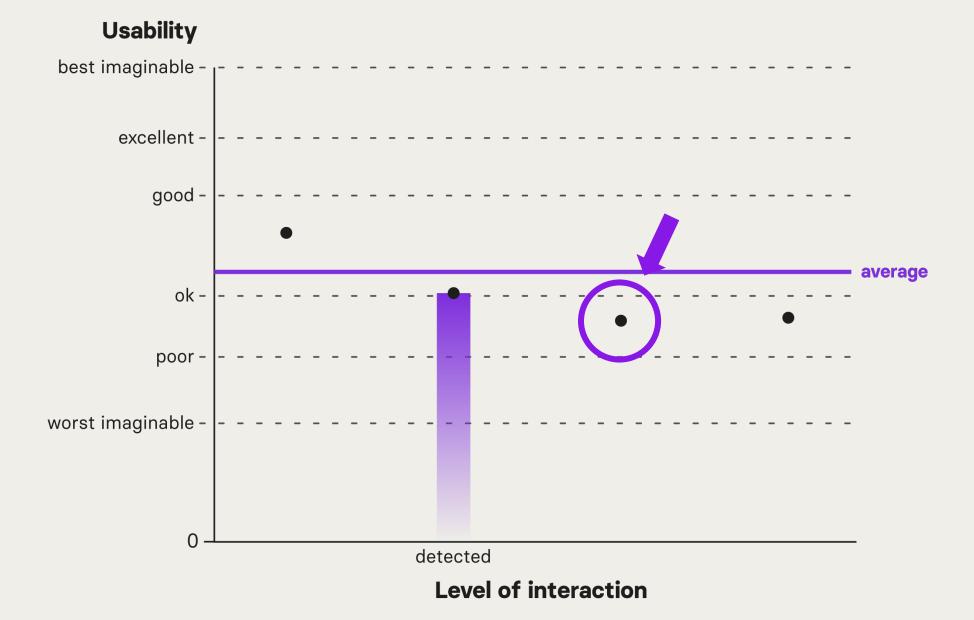
Usability



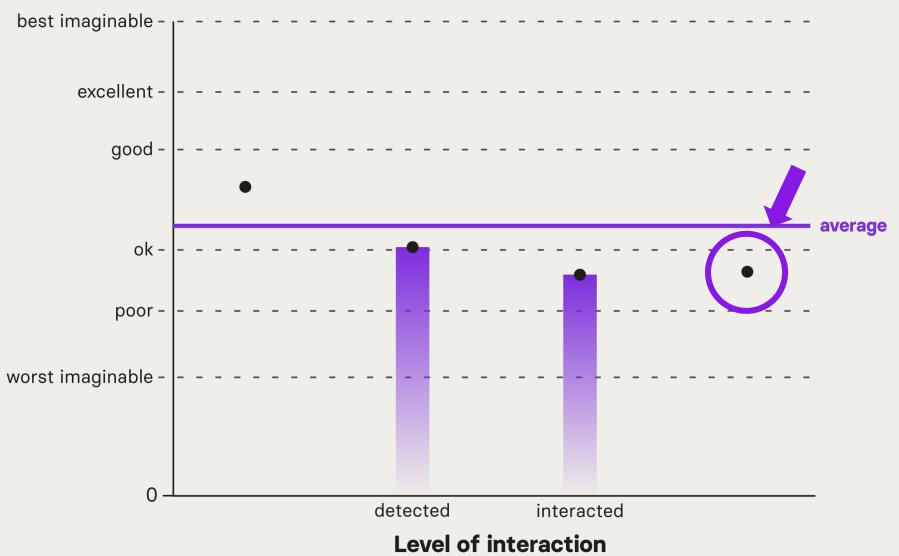
Level of interaction



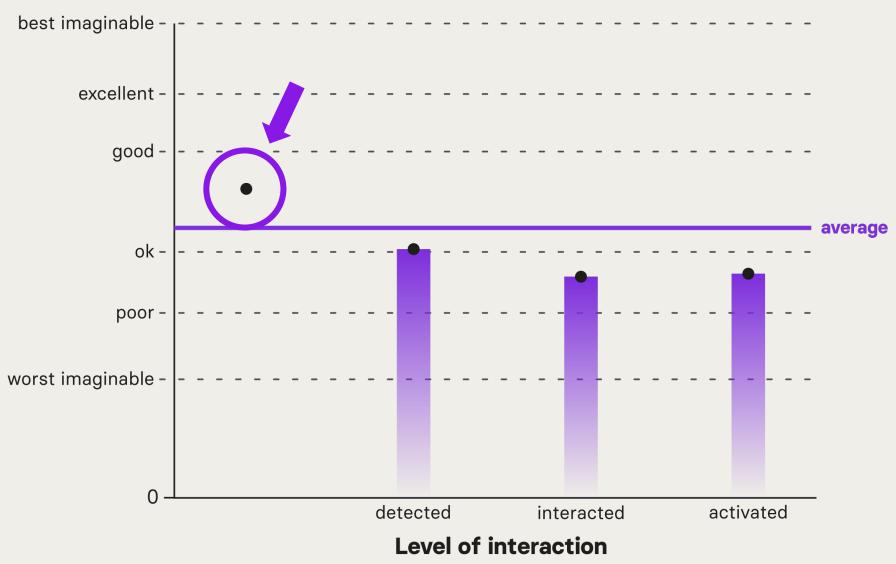
Level of interaction







Usability





Level of interaction

Usability

"I wonder how such an overlay would really work, how can software do that? [...] A website is such an individual product that I think it's almost impossible to put something clever on top of it."

Navigation Preferences

Browser/System Settings + Access Device

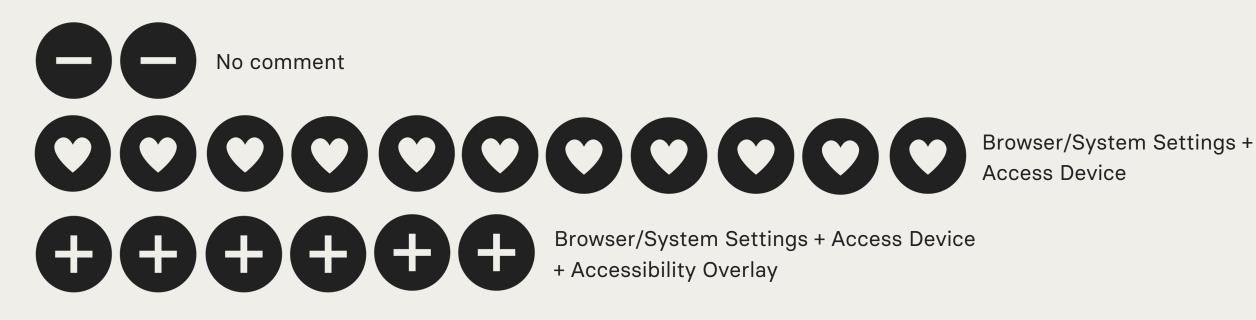


"After a brief investigation, I haven't found anything suitable for me. When I'm surfing a website, I don't want to spend half an hour going through a list of what I can activate."



"Personally, I prefer to use system and browser options because then it is simply a global setting and does not have to be readjusted from website to website."

Post-Study Navigation Preferences





"I have set my accessibility settings so that it works for me. But when navigating websites, I sometimes change these settings or use accessibility overlays because then I don't have to change my system settings again when I go to another website."

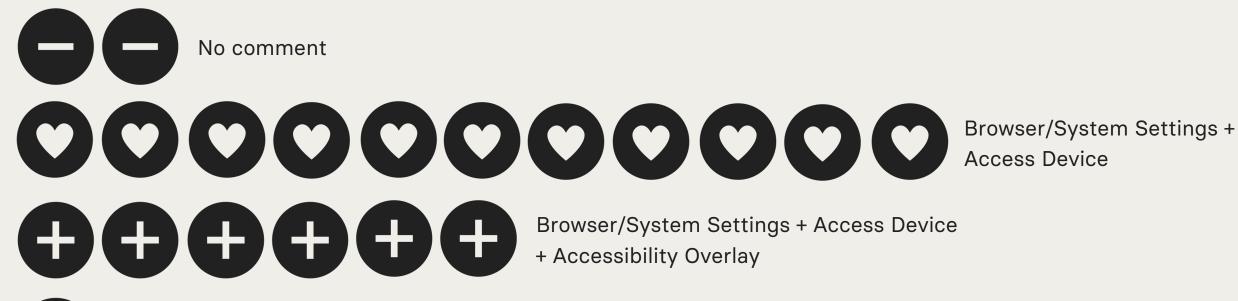


"For example, if I'm in a hotel on someone else's computer, I can imagine using the accessibility overlay [...] but I think I'll fail because not everything is so intuitive. However, it's probably better than nothing. But I don't see any point in using it on my computer now."



"If I'm only looking for a single piece of information then it would be too complicated for me to take an extra look at the accessibility overlay. But if there's an accessibility overlay on a site that I use often, then I'd be up for it straight away if the website itself isn't quite optimal yet."

Navigation Preferences





Accessibility Overlay

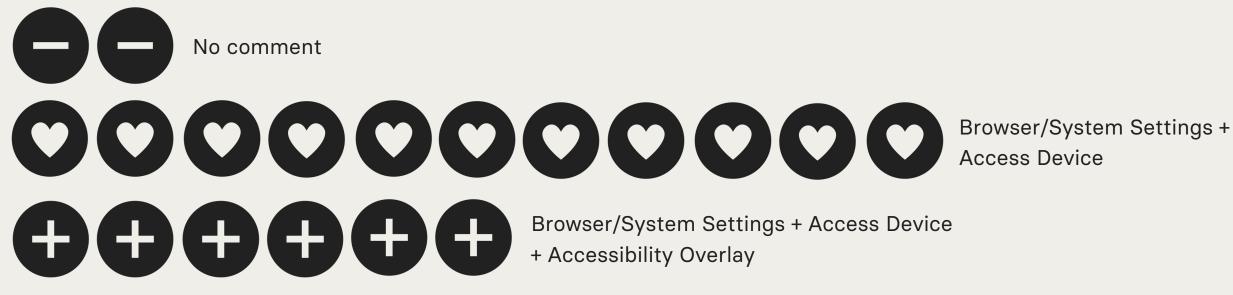


"I would like it if [the accessibility overlay] was on every website. That would be a help. I could imagine that. Then I can also make settings quickly on other devices. You're not necessarily always on the same device."

– Participant T2

Disclaimer: This participant has never noticed an accessibility overlay on any of the websites.

Post-Study Navigation Preferences





Accessibility Overlay





"It always depends on how much energy I have and what I have planned for the rest of the day. Sometimes it's just too hard for me to click through and search, especially if every accessibility overlay is different. Then I'm also disappointed when I stumble across one that doesn't work so well."

Individuals with impairments must be incorporated into the design, development and decision process.

"Maybe I'm just not very experienced, but then [Accessibility Overlays] have to be so good that I can use them intuitively and don't have to take an extra course to be able to use them."



The debate about Accessibility Overlays should not only exist in a vacuum.



Result

In Favor of Accessibility Overlays

- 1. Positive response bias
- 2. Strong desire to explore new solutions
- 3. Desire for access

What can we do?

The Different Discourses

The legal discourse

The web accessibility discourse

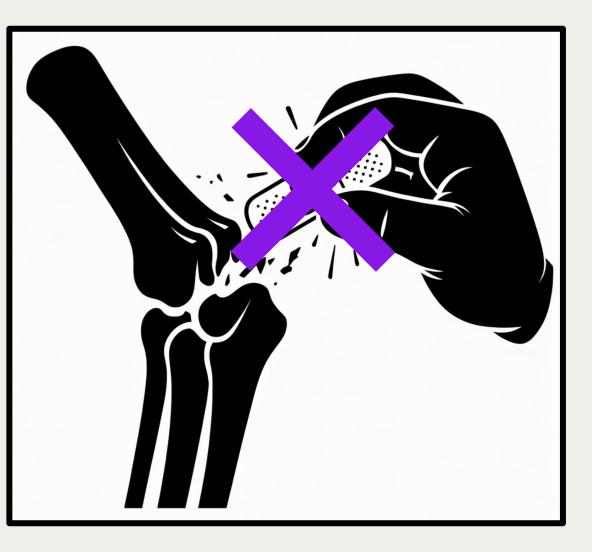
The **digital divide** discourse

The social construction of disability discourse

It is the responsibility of society to ensure that the internet and web are accessible.

While there may be a general desire for a more equal and fair society, the deeper social and cultural structures that contribute to inequality are often overlooked.

Summing up.



1. Do not prioritise some users' experience over the deterioration of others.

2. Nothing about us, without us!

3. The debate about Accessibility Overlays should not only exist in a vacuum.

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