**Empowering Inclusivity** 

## The Urgency of Digital Accessibility and Practical Steps Forward

Experimentation Heroes - November 7th, 2024

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## Three questions we will answer during this presentation

What does digital accessibility entail?

02 Why is it important (now)?

03 What can I do to start making my website more accessible?

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## But first, let me introduce myself

Nick Schaperkotter Team Lead CRO & Design 7+ years of experience in experimentation

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# What does digital accessibility entail?

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## Making your online platform accessible to as many people as possible on their own device (possibly aided by assisting technology)

What is digital accessibility?



## What types of limitations should I consider?

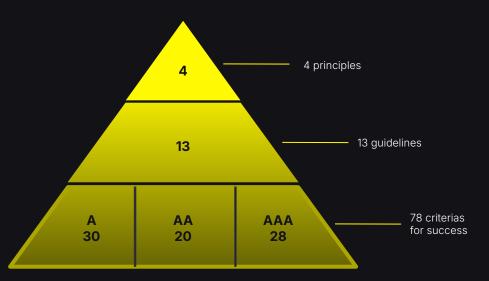
• Approximately 32% of the Dutch population has some sort of a disability

- Motor, cognitive, visual, auditory or neurological disabilities
  - Motor: spasticity
  - Cognitive: dyslexia
  - Visual: (colour)blindness
  - Auditory: hard-of-hearing or deaf
  - Neurological: epilepsy
- Either permanent, temporary or situational
  - Temporary: broken arm
  - Situational: glare from bright sunlight

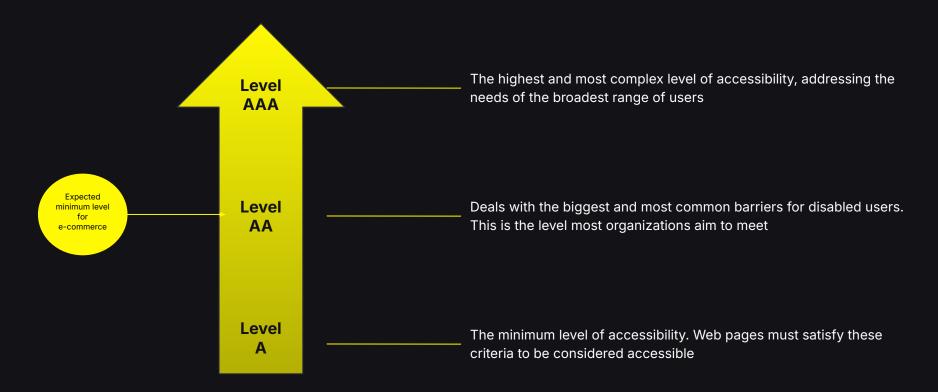
## WCAG 2.1 as the new international standard

To ensure a digital inclusive world, the W3C created a set of guidelines for accessibility.

This internationally accepted standard for accessibility is described in the Web Content Accessibility Guidelines (WCAG)



## Three levels of conformance

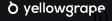


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## Four base principles of the WCAG

Perceivable	Making content visible and audible for all
Operable	All users can navigate and interact with the website while using just a keyboard
Understandable	Information and the operation of the user interface must be understandable
Robust	Using standards to ensure compatibility with current and future tools.

## Some concrete examples



### Screen reader for users with visual impairments



Refreshable braille display - screen reader

 Approximately 2% of the population lives with a visual impairment

 That is around 300.000 people who potentially use a screen reader in the Netherlands

## Images without alt-texts unreadable for screen readers & SEO



- Insufficient: alt="soup tomato soup grandma recipe tomato soup order"
- Sufficient: alt="tomato soup"
- Good: alt="bowl of tomato soup with fresh basil"

### Alt-text

### Used to describe visual images

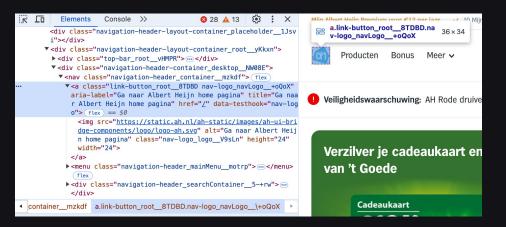
<img src="voorbeeld.jpg" alt="A picture of a bowl of tomato soup with fresh basil">

## Actions without ARIA-labels unreadable for screen readers

### **ARIA-labels**

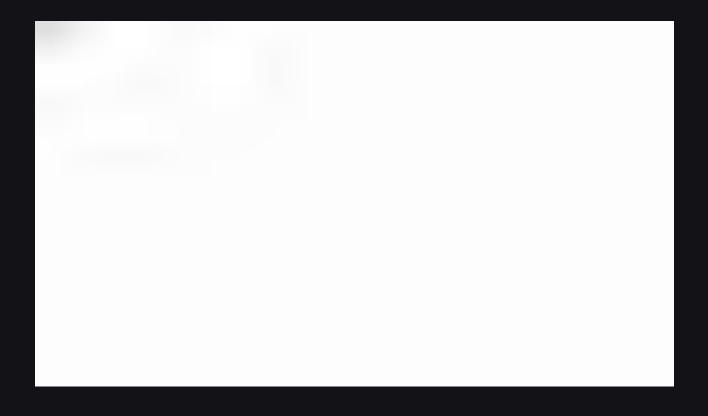
Used to describe interactive elements on web pages such as buttons, forms and other UI components

<br/>button aria-label="Close window">X</button>



aria-label="Ga naar Albert Heijn home pagina"

## Navigating the page using just the keyboard



# Half of Dutch webshops is not ready for the European Accessibility Act (EAA)

Market research done by Level Level in the end of 2023

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Source: https://level-level.com/nl/blog/helft-webwinkels-niet-klaar-voor-de-european-accessibility-act/

### How some of the 15 biggest companies are performing over the years

Website getest met toetsenbord	2021	2022	2023	Website getest met schermlezer	2021	2022	2023
Apple	ja	ja	ja	Apple	ja	ja	ja
Jumbo	nee	ja	ja	Jumbo	nee	ja	ja
Bol	ja	ja	ja	Bol	ja	ja	ja
HelloFresh	ja	ja	ja	HelloFresh	ja	ja	ja
GAMMA		ja	ja	GAMMA		ja	ja
Coolblue	ja	ja	nee	Coolblue	ja	ja	nee
MediaMarkt	nee	nee	ja	MediaMarkt	nee	nee	ja
IKEA	nee	nee	nee	IKEA	nee	nee	nee
Albert Heijn	ja	ja	ja	Albert Heijn	ja	ja	ja
Amazon	ja	ja	nee	Amazon	ja	ja	nee
Zalando	nee	nee	nee	Zalando	nee	nee	nee
H&M	ja		nee	H&M	ja		nee
Belsimpel		nee	nee	Belsimpel		nee	nee
Wehkamp	nee	nee	nee	Wehkamp	nee	ja	nee
НЕМА	nee	nee	nee	НЕМА	nee	nee	nee

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Source:https://level-level.com/nl/webwinkel-onderzoek-2023/

## Why is it important (now)?

## Why is it important?



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# Adhering to legislation



## **European Accessibility Act 2025**



### **Digital Regulation**

The EU Accessibility Act - Time to start implementation projects now

Published on 25th Jun 2024

The EU Accessibility Act will improve accessibility for millions of Europeans in the physical and digital world, requiring companies to put in place a range of accessibility measures. Businesses need to get ready for compliance as soon as possible.

## EAA 2025 in short

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- Comes into effect on June 28th 2025
  - Already relevant for government institutions since 2018
- Comply with WCAG 2.1 standards
- Affects a very broad spectrum of digital products/services
  - Websites, mobile applications, e-books, banking services, and e-commerce, to ensure inclusivity for people with disabilities across the EU
  - Minimum yearly revenue of €2 million
- Sanctions (e.g. fines) when your site is not compliant



# Revenue growth



# Increase your target audience

**IF** ... the website is more digitally accessible

**THEN** ... more visitors on the website are able to complete a transaction

**THUS** ... potentially increasing the revenue, conversion rate and customer satisfaction

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## Additional potential target group - users with a screen reader

Approximately **2%** of population are potentially using screen ready

Around 300.00 people potentially use a screen reader On **50%** of Dutch webshops its **not possible** to complete a transaction with a screen reader

Source: https://level-level.com/nl/blog/helft-webwinkels-niet-klaar-voor-de-european-accessibility-act/

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## A general indication of potential revenue uplift

	Current CR	1% CR uplift	2% CR uplift	5% CR uplift
Users	4.645.960	4.645.960	4.645.960	
CR	6,46%	6,52%		
Transactions	300.000	303.000		
AOV	€35,51	€35,51		
Revenue	€10.653.000	€10.759.530	€10.866.060	
Additional revenue		+ €106.530	+ €213.060	+ €532.650

# Inclusive digital world



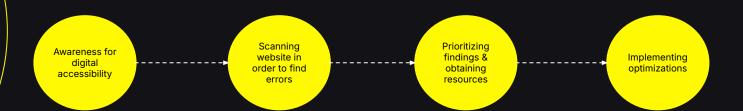
The power of the Web is in its universality. Access by everyone regardless of disability is an essential aspect.

Tim Berners-Lee (inventor of the World Wide Web)



# What can I do to make my website more accessible?

# It all starts with awareness



## How to create awareness?

- Convince yourself
  - Perform your own usability testing
    - Try to complete a transaction on your website using just your keyboard
- Convince key stakeholders
  - Highlight potential with a business case
  - Show examples of digital accessibility errors on your website
- Make it personal



## Global Accessibility Awareness Day

Thursday, May 15, 2025, help us celebrate the 14th Global Accessibility Awareness Day (GAAD)! The purpose of GAAD is to get everyone talking, thinking and learning about digital access and inclusion, and the more than One Billion people with disabilities/impairments.

https://accessibility.day/

## Some more practical tips



## Perform a free online quickscan

• Type in your URL and get initial insights on that particular page

- Indicative results to increase awareness
   Full research to give proper conclusions
- <u>https://ismijnsitetoegankelijk.nl/</u>

smijnsite toegankelijk.nl	
Hoe <b>toegankelijk</b> is jouw website?	
Doe de zelfscan! Vui de URL in van de webpagina die je wit scannen en druk op de scan-knop. Nb: De scan geldt alleen voor deze URL, niet voor de hele website.	7 Scan min website
https://experimentationheroes.com/	
<ul> <li>Alternative tekst bij afbeledingen Vest dit gaat goedt</li> <li>An Alt-tekst is een onzichtbare beschrijving van een afbeelding. De informatie in de beschrijving wordt voor een blinde of slechtzende bezoeker automatisch door de computer voorgelezen of in de braillelesersgel getoond zodat de getoonde informatie ook niewisue te begrijpen is.</li> <li>Meer over alternatieve tekst</li> </ul>	<text><text><text><text><text></text></text></text></text></text>
Gebruiksvriendelijkheid Dit gaat fout. De gebruiksvriendelijkheid van een webpagina is van veel factoren afhankelijk. Denk hierbij aan de structuur, het kleurcontrast en de schaalbaarheid van de pagina.     Meer over gebruiksvriendelijkheid	Code-kwaliteit Yes, dit gaat goed! De code-kwaliteit zegt iets over de structuur, opmaak en informatie van je webpagina's. Een website die met zorg is geprogrammeerd heeft een overzichteilijkei FMI-code. Dit zorger evoor dit je webste makkiljeer door iedere browser, hulpsoftware, zoekmachine en vertaalprogramma kan worden gelezen. Meer over code-kwaliteit

## Create a business case of missed revenue

antal bezoekers van jouw webshop					
10000					
Gemiddelde orderwaarde					
83					
Conversie percentage					
3					
	Percentage	Bezoekers	Omzet		
Blind	0.5%	50	€ 124,5		
Slechtziend	1.4%	140	€ 348,6		
Kleurenblind	4.1%	410	€ 1.020,9		
Auditieve beperking	7.7%	770	€ 1.917,3		
Fysieke beperking	8.8%	880	€ 2.191,2		
Dyslexie	4.9%	490	€ 1.220,1		
Laaggeletterd	8.8%	880	€ 2.191,2		
Zwakbegaafd (IQ 70-85)	3.5%	350	€ 871,5		
Verstandelijke beperking (IQ <70)	1.0%	100	€ 249		
Totaal	40.7%	4.070	€ 10.134,3		

 Calculate the possible revenue that is missed by not being accessible to different parts of the population

 <u>https://ismijnsitetoegankelijk.nl/misgelo</u> <u>pen-bezoekers/</u>

## Technically assess your own website

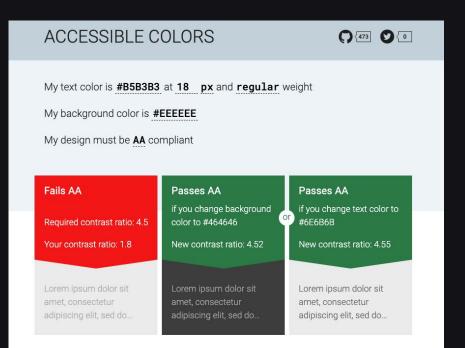
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Assess your own website:

- In-depth scan of errors
- Use axe DevTools to audit your website for accessibility
  - <u>Chrome extension</u>

☐ Elements Console axe DevTools >>	× Fysieke cadeaukaarten			diner caucau		
DevTools Signup / Signin startnew scan	Cadeaukaarten voor hem		Fysieke cadeaukaarten 91 producter in Fysiele cideaukaarter		B Sorteer op populair 🗸	
TOTAL ISSUES Automatic Issues	Toon meer opties V					
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♦ Highlight  Are Issue	Beauty	(10)				
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Element Location: a[aria-controls="am-ranges-attr_occasion"]	Toon meer opties 🗸		Sectors .	of Hors	The states of	
<pre><a class="am-show-more -active optmz-checked" data-am-js="am-filter-items-attr_occasion-show-more" data-text-mo<br="" title="Toon meer optie&lt;br&gt;s">re="Toon meer opties" data-text-less="Toon minder opties" aria-contr</a></pre>	Merk	^		bolcom	CALENCEAN	
<pre>ols="am-ranges-attr_occasion" aria-expanded="false" data-is-hide="tr ue" first_load="true"&gt;</pre>	Zoek	Q		4712 E/201		
To solve this problem, you need to fix the following:	IKEA					
ARIA attribute is not allowed: aria-expanded="false"	BeautyCadeau		Cadeaubox Primera Keuze Cadea van 5 tot 150	Bol cadeaukaart van 5 tot 150	Efteling Cadeaukaart van 5 tot 150	
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	Vrouw	(81)				
Certain ARIA roles must contain particular children 1 >	Jongen	(38)				

## Check the accessibility of the colours



- Fill out your text and background colour to see if they pass the required contrast ratio
- Able to do on your site, but also in e-mails or ads
- <u>https://accessible-colors.com/</u>

### How it works

We evaluate your color combination using the WCAG 2.0 guidelines for contrast accessibility.

# Three key takeouts

- A large part of the population might use your website differently from what you would expect
- 02 Making your website more accessible creates a larger target audience
- Start creating awareness by performing practical assessments (using tooling or be your own user test)

## Vragen? Let's talk...

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