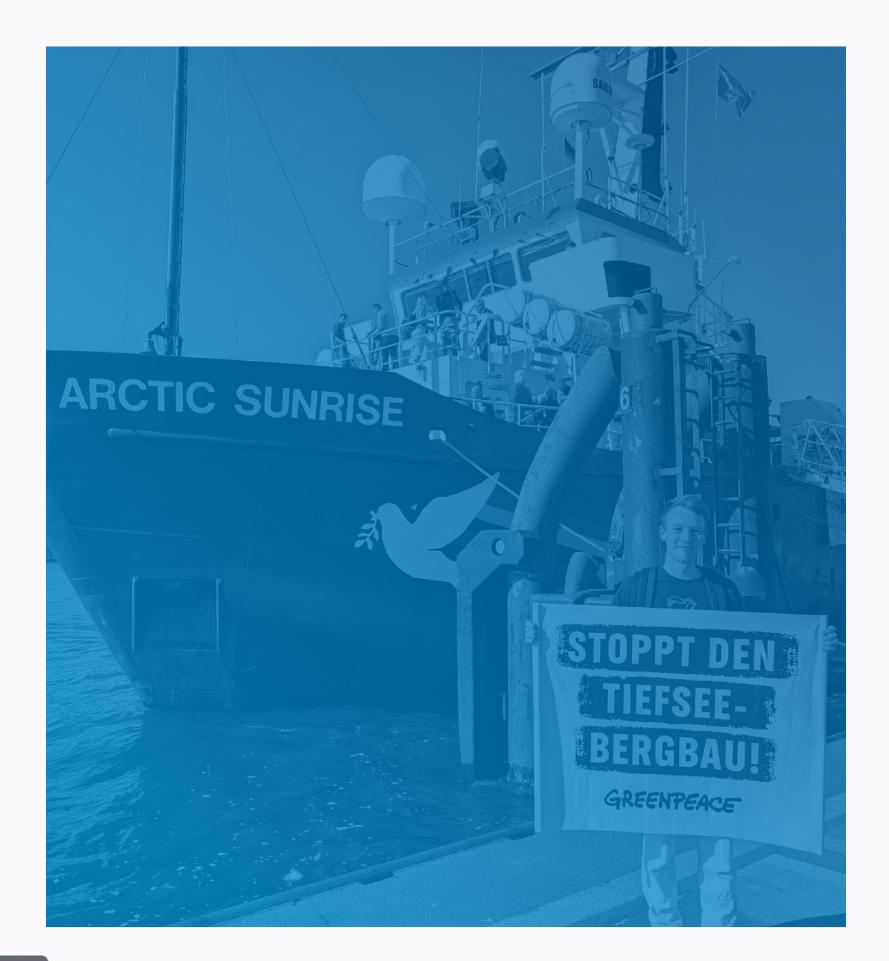
Factorial

Introduction

Digital Accessibility





Fynn Ellie Becker

they/them

- Frontend developer at Factorial
- Accessibility specialist
- Occasional open sourcerer
- fynn.be
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The web is for everyone.



Tim Berners-Lee
Creator of the World Wide Web

Try Pitch Image: w.wiki/Aypb



01

Barriers



Disabilities **#** Barriers

People have disabilities

intrinsic

VS

Society creates barriers

extrinsic



Disabilities

Physical disability

- Mobility
- Dexterity
- Chronic illness

a Plindnoss or visus

Sensory disability

- Blindness or visual disability
- Deafness or hard of hearing

Speech disorder

- Language learning
- Speech sound
- Aphasia and muteness

Mental disorder

- Attention deficit
- Thought disorder
- Personality disorder

Developmental disability

- Dyslexia
- Dyscalculia
- Dyspraxia

Intellectual disability

- Emotional and behavioral disorder
- Cognitive impairment
- Dementia



Barriers



High curb without tactile paving



Curb cut with tactile paving

Digital barriers

Missing audio transcript

For example:

Interactive elements without name

Unstructured text

Missing alternative text

Low color contrast

Long loading times

Videos without captions

Complex language





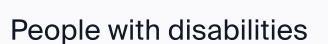
02

The need for accessibility



EU-wide statistics

101 million



1 in 4

people



We're all just temporarily abled.



Cindy Li
UX and accessibility expert

Persona spectrum

	Touch	See	Hear	Speak
Permanent	One arm	Blind	Deaf	Non-verbal
Temporary	Arm injury	Cataract	Infection	Laryngitis
Situational	Parent	Distracted))) ((° Bartender	Accent



03

Assistive Technology



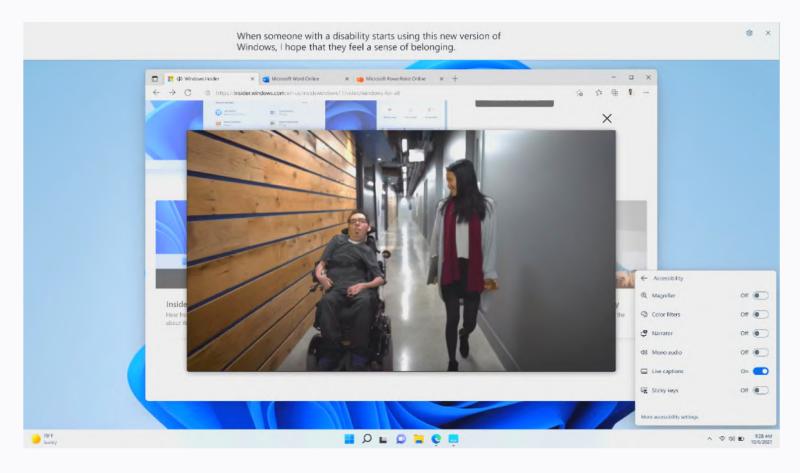
Sensory disability

Sight

- Screen reader
- Braille display
- Screen magnification
- Browser zoom
- Windows Contrast theme

Hearing

- Volume control
- Hearing aid
- Captions







Physical disability

Software

- Voice control
- Keyboard shortcuts
- Keyboard mouse
- Virtual keyboard

Hardware

- Switch
- Trackball
- Eye tracking
- Smart home devices



Abstract

Status of This Document

Comparison with WCAG 2.1

Introduction

Background on WCAG 2 WCAG 2 Layers of Guidance WCAG 2.2 Supporting Documents Requirements for WCAG 2.2

Web Content Accessibility Guidelines (WCAG) 2.2



W3C Recommendation 05 October 2023

▼ More details about this document

This version:

https://www.w3.org/TR/2023/REC-WCAG22-20231005/

Latest published version:

04

Web Content Accessibility Guidelines



What is WCAG?

Overview

- Guidelines for accessible web content
- Published by W3C
- Testable success criteria
- Covers a large percentage of all disabilities

Current version (WCAG 2.2)

- w3.org/TR/WCAG22/
- w3.org/WAI/WCAG22/Understanding/



POUR principles

01

Perceivable

Content has to be accessible with at least one sense

02

Operable

Interface and content have to be operable

03

Understandable

Information and operation have to be understandable

04

Robust

Content has to be compatible with assistive technology

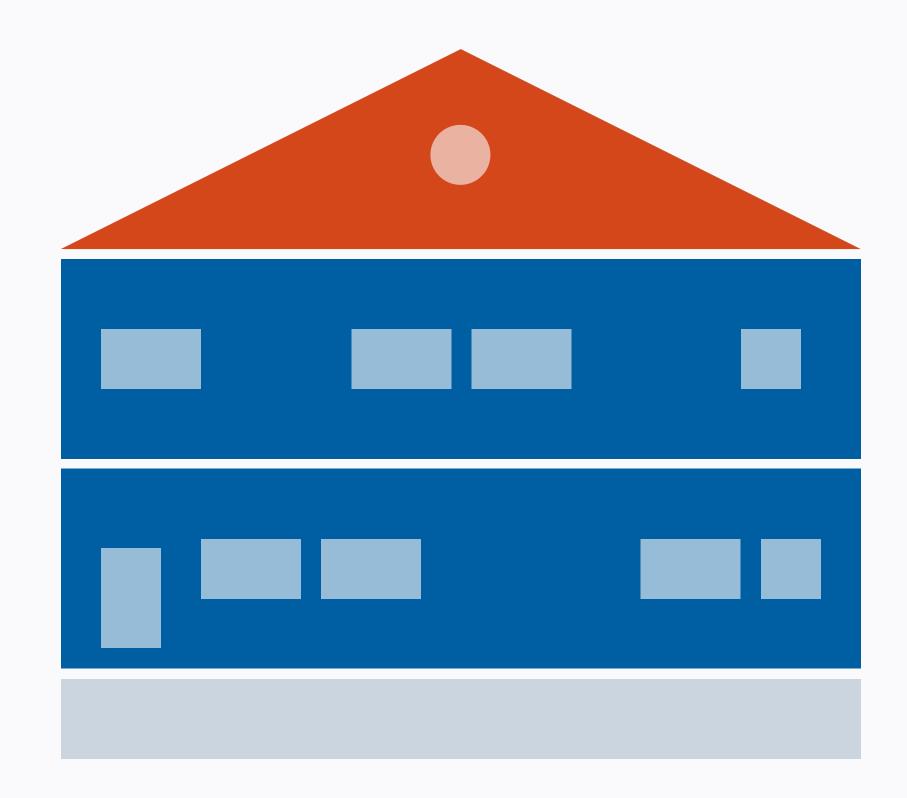


Levels of conformance

Level AAA

Level AA

Level A







05

EU legislation



Web Accessibility Directive

- Digital accessibility for the public sector
- Requirements according to EN 301 549 (WCAG 2.1 AA)

Timeline

2016: Resolution

2018: Transposition into national law

2019: Deadline for new websites

2020: Deadline for existing websites

2021: Deadline for mobile apps

European Accessibility Act

- Accessibility for products and services in the private sector
- Among others digital accessibility
- Requirements according to EN 301 549 (WCAG 2.1 AA)

Timeline

2019: Resolution

2022: Transposition into national law

2025: Deadline for implementation



Many of our problems are social, structural, and practical problems that stem from the idea that disabled people are fundamentally flawed, unworthy of inclusion, broken, or inadequate. This is ableist thinking.



Ashley Shew
Author of Against Technoableism

Thank you!

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Slides

fynn.be/talks/introduction-digital-accessibility



