

Accessibility in digital

What You Need To know

2021 figures reported:

Almost **2 Million** people in the UK are blind

In **Britain** there are approximately **3 million colour blind** people (about 4.5% of the entire population)

Colour Vision Deficiency affects approximately **1 in 12 men** (8%) and 1 in 200 women in the world.

700,000 people are on the **autism** spectrum in the UK. That's more than **1 in 100**, around 2.8 million people.

According to the British Dyslexia Association, the number of **dyslexics in the UK is around 10 million**, with 1 million severely suffer from Dyslexia.

The spending power of disabled people and their households in the UK was **£245 Bil**

(WCAG) Web Content Accessibility Guidelines

Content must be:

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Content must be:

Perceivable

Information and user interface components must be presentable to users in ways they can perceive.

(WCAG) Web Content Accessibility Guidelines

Content must be:

Perceivable
Operable

User interface components and navigation must be operable.

(WCAG) Web Content Accessibility Guidelines

Content must be:

Perceivable
Operable
Understandable

Information and the operation of the user interface must be understandable.

(WCAG) Web Content Accessibility Guidelines

Content must be:

Perceivable
Operable
Understandable
Robust

Content must be robust enough that it can be interpreted by a wide variety of including assistive technologies.

(WCAG) Web Content Accessibility Guidelines

There are thirteen guidelines, each with success criteria.

These have different levels of conformance
(A, AA and AAA)

1. Conformance Level: One of the following levels of conformance is met in full.

- **Level A:** For Level A conformance (the minimum level of conformance), the Web page satisfies all the Level A Success Criteria, or a conforming alternate version is provided.
- **Level AA:** For Level AA conformance, the Web page satisfies all the Level A and Level AA Success Criteria, or a AA conforming alternate version is provided.
- **Level AAA:** For Level AAA conformance, the Web page satisfies all the Level A, Level AA and Level AAA Success Criteria, or a Level AAA conforming alternate version is provided.

Note 1: Although conformance can only be achieved at the stated levels, authors are encouraged to report (in their reports) any progress toward meeting success criteria from all levels beyond the achieved level of conformance.

Note 2: It is not recommended that Level AAA conformance be required as a general policy for entire sites because it is not possible to satisfy all Level AAA Success Criteria for some content.

Have you ever watched someone Using a screen reader?



<https://youtu.be/7Rs3Ypsnfol>

Questions and reflections

Thoughts on the facts at the beginning.

The 4 key elements of WCAG.

Screen reader usage: speed, structure, alt text and navigation.

Anything else?

Designing for Neuro Divergent users

Ensure there is a UI mechanism for the user to pause, stop, or hide any moving, blinking or scrolling information that (1) starts automatically, (2) lasts more than five seconds

Provide a number of ways for the user to orient themselves within a set of Web pages and find related information (i.e. breadcrumbs, sitemap etc.)

Make the user experience consistent

Don't spec elements that violate the Three Flashes or Below Threshold (for ex

Visually highlight focused elements with 2 or more methods

I'll now give a brief showcase of how Bnode implements these and b

<https://bnode.co.uk/>

Questions and reflections

Does your website follow a good design and structure path for the 700,000 people are on the autism spectrum in the UK?

Remember, that's more than 1 in 100, which is around 2.8 million people, and they are just the ones that have been diagnosed (which is difficult to get, especially for adults).

Any thoughts or questions?

Considerations for those with hearing difficulties.

Sign languages are structurally different from written and spoken languages

Many deaf people who use sign language often consider it to be their first language

Lower English proficiency (LEP) means essential content in written form can be incomprehensible

A shortage of interpreters (1:75 in the UK) doesn't help

1 in 6 of the UK adult population is affected by hearing loss.

It's easy to forget that just because it's written down, it doesn't mean it's

The problem with AI video captions



I was watching this years COP27 in August and I wanted to understand what ot speaking representatives were saying, and this is what I was presented

What can be done?

Video hosting platforms such as YouTube, allow you to auto generate captions and also edit them to ensure that they are correct.

YouTube also allows you to add your own captions from a document, edit them, and time stamp them.

YouTube also allows you to add caption description elements such as [Thunder] or [Laughter] to further enhance a user that is hard of hearing or deaf.

**Bnode is looking to explore available AI technology to auto generate sign la
discussing with Signly about their problems with pre-recorded film**

<https://signly.co/>

Questions and reflections

Had you ever considered, or realised about Deaf users of digital media?

Did you know that 1 in 6 of the UK adult population is affected by hearing loss?

Any thoughts or questions?

Thank you

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