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GAAD 2022 - Accessibility Fundamentals & Guidelines



Over 1.3 billion people!

People with disabilities worldwide constitute an emerging market similar in size to the population of China (2019).

26% of Americans have disabilities

In 2019, 61 million (one in 4) adults in the United States identified having some type of disability (Mobility, Cognitive, Hearing or Vision).

Accessibility Fundamentals Did you know? (invisible disabilities)

Disabilities come in many shapes and forms, but not all of them are noticeable! 74% of people who have disabilities are dealing with conditions you wouldn't be aware of, unless they told you.

Here's a hint for you - most of them won't, unless they must!

74% of which are invisible

Inclusion and accessibility



In your breakout group share your take on the following two questions.

- How does being excluded make you feel?
- What the first word that comes to mind when you hear the word Accessibility?

Digital Accessibility

When all people regardless of disability can obtain the same information and perform the same functions independently



Meet Eric

I need full keyboard and voice support, as features that only work with the mouse aren't usable for me.



Eric (mobility)



Grace (cognition)



Kiko (hearing)



Robert (vision)

Meet Grace

I need pages with not a lot of extra distraction. I also enjoy pages that are easy to read and support my assistive technology.



Eric (mobility)



Grace (cognition)



Kiko (hearing)



Robert (vision)

Meet Kiko

I need support with multimedia files online, such as captions for videos and text transcripts for podcast files.



Eric (mobility)



Grace (cognition)



Kiko (hearing)



Robert (vision)

Meet Robert

I need full support for assistive technologies, so the information can be reliably conveyed back to me.



Eric (mobility)



Grace (cognition)



Kiko (hearing)



Robert (vision)

Having an Accessible Digital Presence Types of Disabilities

	Permanent	Temporary	Situational
Visual	Blindness	Migraine Headache	Screen Glare
Auditory	Deafness	Ear Infection	Noisy room
Motor	Arthritis	Broken Arm	Carrying a large box
Speech	Apraxia	Laryngitis	Heavy accent
Cognitive	Autism	Memory Loss	Distracted Driver

Food for Thought....

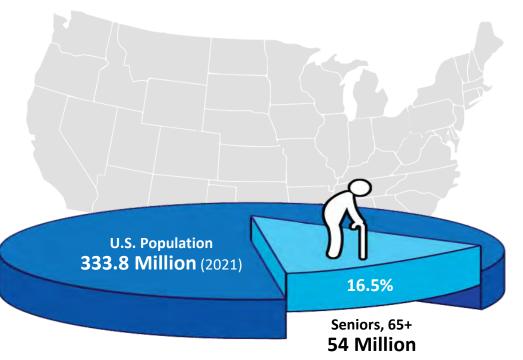
People with disabilities are, by far, one of the largest minority groups on the Web. It's also the only minority group any one of us can join, at any given time.



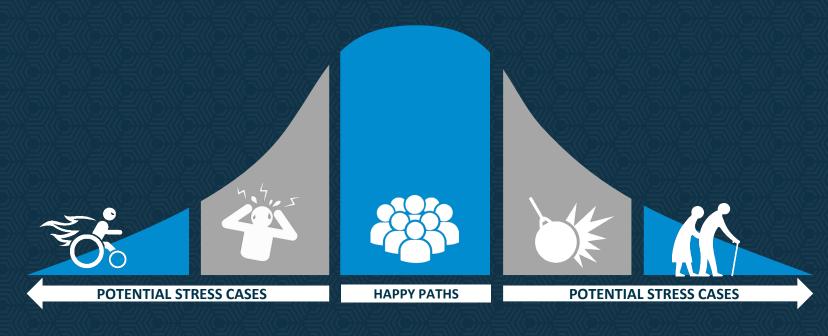
Accessibility considerations

54M Americans are seniors (2021)

- According to the U.S. Census Bureau, 16.5% of Americans were aged 65+ back in 2021.
- This number is expected to reach 85.7M, or 20% of the population, by 2050.



Accessibility Fundamentals Designing for the extremes



People with disabilities

People with severe anxiety **Average** users

People impacted by technology

People getting older

A word to the wise

We spend an awful lot of time building the bridge, but not nearly enough time thinking about the people who are going to cross it.



Dr. Prabhjot SinghDirector of Systems Design,
The Earth Institute

A word to the wise

We spend an awful lot of time building the bridge, Website but not nearly enough time thinking about the people who are going to cross it.

USE



Dr. Prabhjot SinghDirector of Systems Design,
The Earth Institute

Web Content Accessibility Guidelines (WCAG)

A set of suggested standards created by W3C (World Wide Web Consortium) to that guide inclusive design and development practices. By following these standards, you will create better sites and applications that are accessible by persons of different abilities. In addition to, there help you maintain compliance with laws designed to prevent discrimination.



Web Content Accessibility Guidelines

Example of Topics included in WCAG

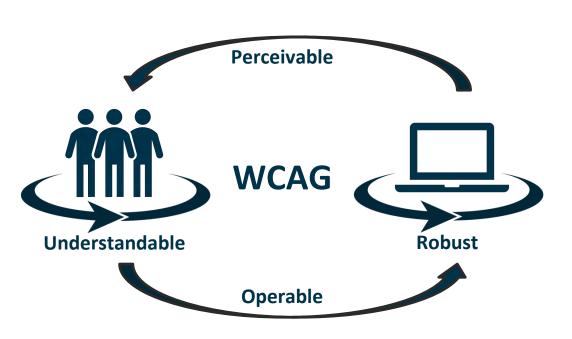
- Images
- Time
- Structure and Data Tables
- Colors
- Keyboard Navigation
- Shortcut Keys
- Seizures
- Video and Audio

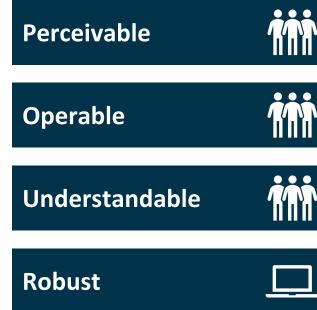
- Navigation
- Readable
- Predictable
- Input Assistance
- Required Fields
- Unique IDs
- Name, Role, Value
- Custom Controls

Is there anything wrong with this picture?



Web Content Accessibility Guidelines POUR principles





Web Content Accessibility Guidelines

Web Content Accessibility Guidelines (WCAG)

Level A – 30 success criteria (total)

WCAG 2.0 (25)

WCAG 2.1 (+5)

Level AA – 20 success criteria (total)

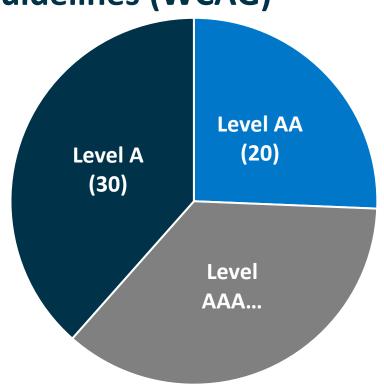
WCAG 2.0 (13)

WCAG 2.1 (+7)

Level AAA – 28 success criteria (total)

WCAG 2.0 (23)

WCAG 2.1 (+5)



Web Content Accessibility Guideline

Designing for diversity



Resource

https://accessibility.blog.gov.uk/2016/09/02/dos-and-donts-on-designing-for-accessibility/



Web Content Accessibility Guidelines

Designing for accessibility

Choose one of the disabilities covered. Looking at your site, how are we doing when it comes to designing for people with that particular disability?

- What are some of the things that are done well?
- What are some of the things that could be improved?





Accessibility Laws

The Web Content Accessibility Guidelines (WCAG) provide the basis in which many countries measure how well accessibility is handled.

Web Content Accessibility Guidelines

Relevant accessibility laws









Comments? Feedback?

Please fill out the survey before leaving today!

https://bit.ly/iltdequefeedback

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Thank you!

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Break! We'll be back in 10 minutes.

(Any questions? Type it in chat while we wait.)