Web Accessibility Fundamentals

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"Development of information systems flexible enough to accommodate the needs of the broadest range of users... regardless of age or disability"

accessibility is...

... a continuum. ... a process. ... never fully reached.

accessibility ...

... encourages good design and development practices. ... supports SEO. ... supports internationalization. ... supports mobile-friendly content.

8.5% of the population has a disability that affects computer use

accessibility benefits everyone

assistive technologies





Guidelines are measures on the continuum of accessibility

Web Content Accessibility Guidelines 1.0



Section 508



Web Content Accessibility Guidelines 2.0



Your site can be compliant, yet inaccessible

Your site can be technically accessible, yet functionally inaccessible

accessibility > compliance

web accessibility is not rocket surgery



Perceivable Operable Understandable Robust

Perceivable



Auditory Disabilities

Captions for video & live audio
Text transcripts for all audio content

Auditory Disabilities



Visual Disabilities

Blindness
Low vision
Color deficiency



Visual Disabilities

• Web pages are linear • Use meaningful links. Avoid "click here". • Alternative text for non-text elements • Associate text labels with form elements • Associate data cells to row/column headers

Visual Disabilities

 Sufficient contrast - http://webaim.org/ resources/contrastchecker/

• Ensure that meaning is not conveyed with color alone

common sense İS vital when considering color contrast

pass pass pass pass fail fail fail fail

The **green** mushrooms listed here are OK to eat. The **red** mushrooms will kill you.

- Amanita
- Chanterelle
- Porcini
- Shitake
- Tylopilus

The **green** mushrooms listed here are OK to eat. The **red** mushrooms will kill you.

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Operable



Motor Disabilities



Avoid flashing/strobing content

More than 3 times in any one-second period

Size, brightness, and red threshold
Annoying rule

Operable

Ensure keyboard accessibility
Don't remove focus indicators
Ensure interactive elements are clearly distinguishable

Logical reading/navigation order
Operable

- Allow user to skip over repetitive and/ or lengthy lists of links
- Error-prevention and recovery mechanisms
- Give users control over time-sensitive changes

Please finish reading this text – it will give you the secret to everlasting happiness. The secret is simple, all you need to do is to stop worrying about the key to everlasting happiness and enjoy the moment.

Sorry! Time's up! Better luck next time!









Who does this affect?

Cognitive disabilities
Largest disability group. Larger than all the others put together.

• Everyone!

- Be careful with movement and other distracters
- Semantic organization (headings, lists, etc.)
- Be consistent and follow interaction models (ARIA design patterns).
- Strive for brevity. Use the simplest language appropriate to the content.

Focus the user's attention "Chunk" and simplify content Balance cognitive load vs. functionality













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tools are valuable, but no replacement for knowledgable practitioners



reb accessibility evaluation tool

wave.webaim.org

"For people without disabilities, technology makes things convenient, whereas for people with disabilities, it makes things possible." - Judy Hueman

thank you

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