

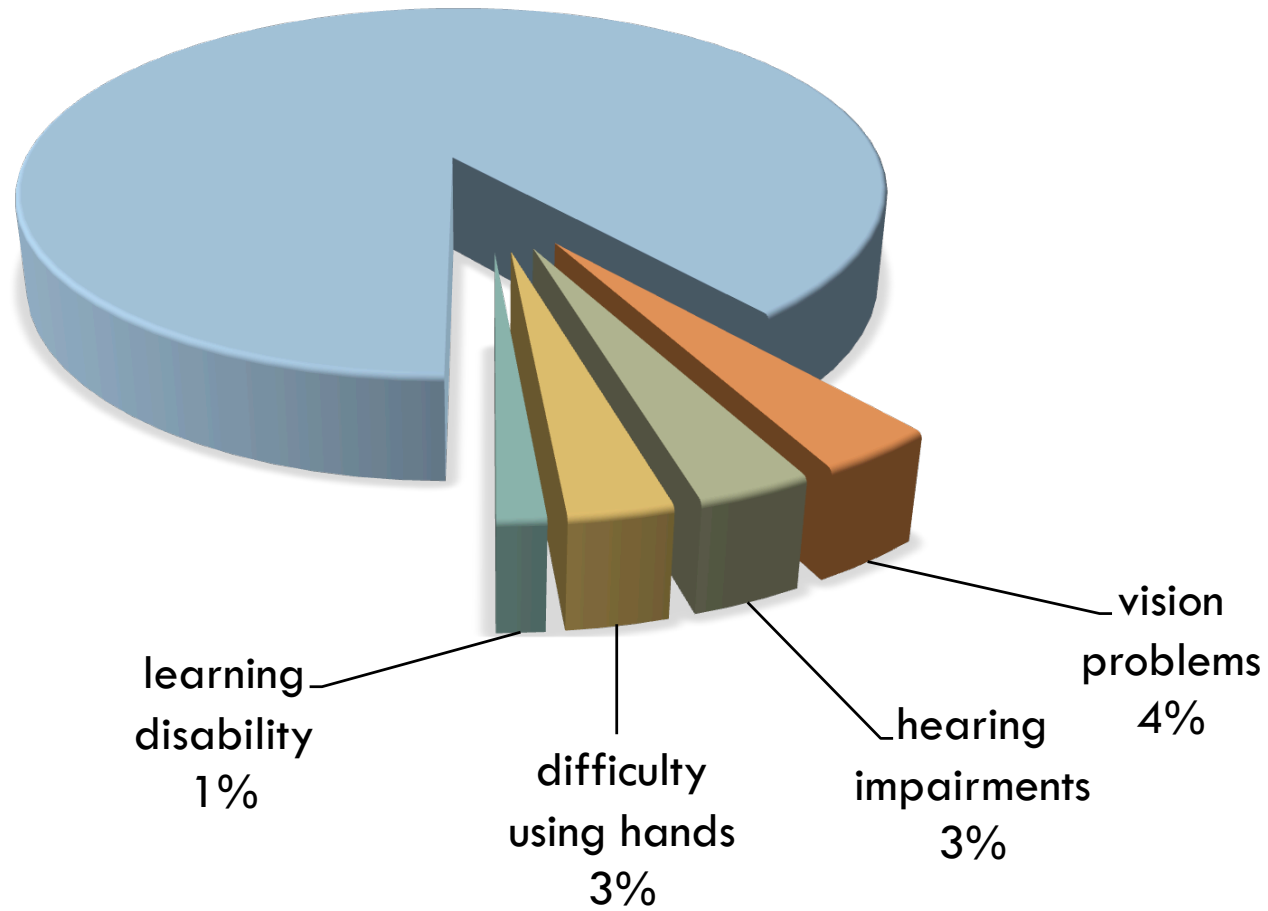


Web Accessibility

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Why?



COMMON DISABILITIES

What are the problems anyway?

Vision Problems



- **Blindness**

Can't see, but can hear

- **Low vision**

Small fonts can pose a problem

- **Color blindness**

Most can't distinguish between red and green

Hearing Impairments



- Deafness

Can't hear a thing

May not read fluently

- Hard of hearing

Physical Disabilities



- **Motor disabilities**
Can't use the mouse

Cognitive & Neurological Disabilities



- Visual and auditory perception
They like pictures
- Attention deficit disorder
No animations!
- Intellectual disabilities
Wish for easy to understand texts
- Memory impairments
Like simple navigation

ASSISTIVE TECHNOLOGIES

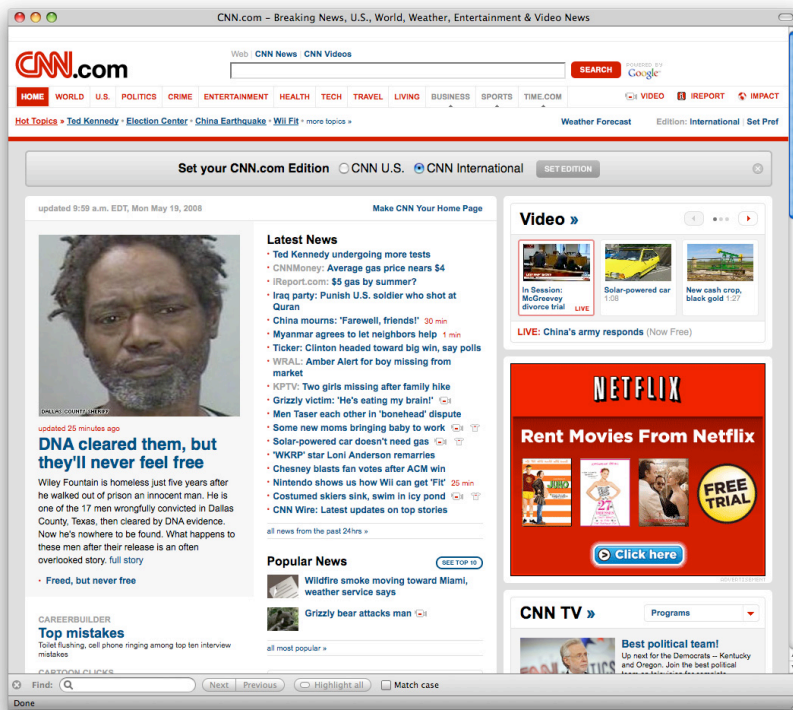
How to ease web access to certain people?

Screen Readers

- Read the text
- Problems with tables
- Can not show images



Text Browsers



Mozilla Firefox



Lynx

Braille Display

- 8-dot version
shows 256 characters



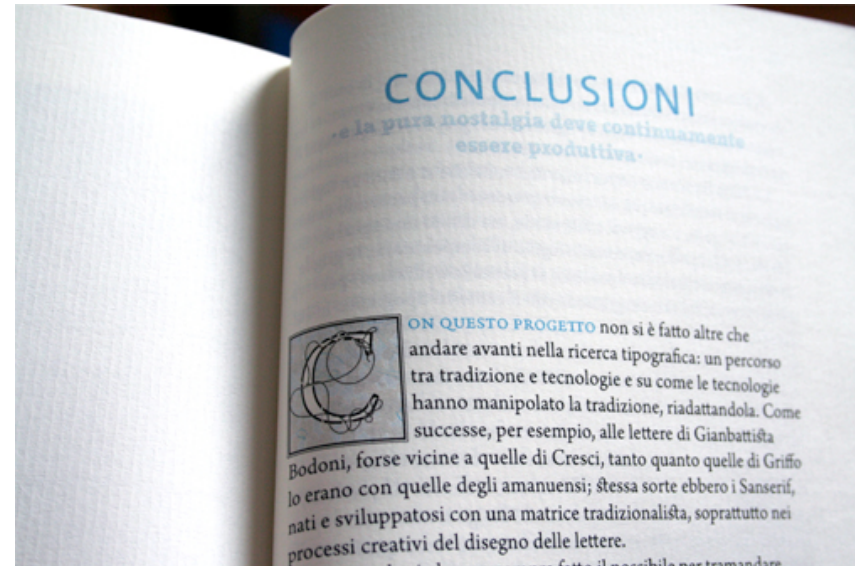
WEBSITE DEVELOPEMENT

Developing an accessible website

New Media



Computer display



Printed book

Semantic Structure



- Using the correct HTML tags
H1, P, EM, UL, DL, ...
- Designing with external stylesheets
CSS

Easy To Understand Language

- Gamma rays (denoted as γ) are a form of electromagnetic radiation or light emission of frequencies produced by sub-atomic particle interactions, such as electron-positron annihilation or radioactive decay.
- Gamma rays are electromagnetic waves with the smallest wavelengths in the electromagnetic spectrum.

Font Sizes



- Using appropriate sizes
Big enough for easy reading
- Ways of enlarging the default size
Will enlarging the font size break the design?
- Relative sizes
Title is 150% the size of text

Use Of Color



- Sufficient contrast between background and foreground

Non-perfect eyesight, bad displays

- Making content readable without colors

Text browsers, prints

Alternatives To Multimedia Content



- Text alternatives for images

Because some people can't see them

- Text transcript of audio content

Some of us don't hear that well

WEBSITE TESTING

How to make sure a website is accessible?

Preliminary Review



- Representative sample of pages
- Try adjusting some settings
 - Turn off images*
 - Turn off sound*
 - Control the font-size*
 - Try different screen resolutions*
 - Change display to gray scale*
 - Navigate only by using the keyboard*
- Automated evaluation tools

Involving Users In Evaluation



- Users with a variety of disabilities
Create a sample of your user base
- Observe them on using the website
Did they get stuck or lost?
- Task assignment
Can they find that page about owls?
- Talk to the users
The only way to get to know what they really think

WEB ACCESSIBILITY INITIATIVE

Helps you develop a website

Web Content Accessibility Guidelines



- Priority 1
must satisfy
- Priority 2
should satisfy
- Priority 3
may address



Thank you

Any questions?