MMI 1 Accessibility

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Types of Impairments

- hearing impairments
- visual disabilities
- physical disabilities
- speech disabilities
- cognitive and neurological disabilities
- multiple disabilities
- aging-related conditions

Pick one topic!

- -> Research guidelines for design
- -> Research tools for checking your website design
- -> Find good and bad examples

Accessibility scenarios

- Online shopper with color blindness user customized style sheets
- Reporter with repetitive stress injury keyboard equivalents for mouse commands, access keys
- Online student who is deaf captioned audio from multimedia
- Accountant who is blind appropriate table markup and alternative text
- Student with dyslexia use of supplemental graphics, freezing animated graphics, multiple search options
- Retiree with aging-related conditions managing personal finances screen magnification, stopping scrolling text, avoiding pop-up windows
- Supermarket assistant with cognitive disability clear and simple language, consistent design, consistent navigation options, multiple search options
- Teenager who is deaf and blind seeking entertainment accessible multimedia, device-independent access, appropriate table markup

from: http://www.w3.org/WAI/intro/people-use-web

Examples

⇒Movie Session!

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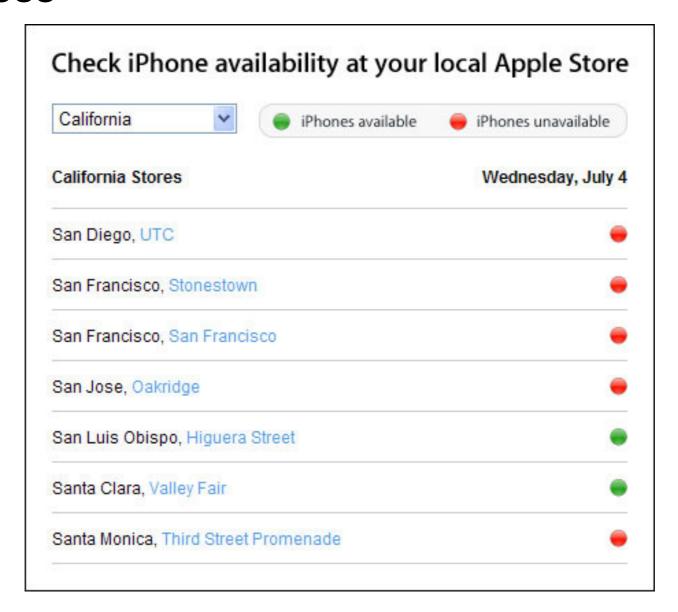
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Screenreader:

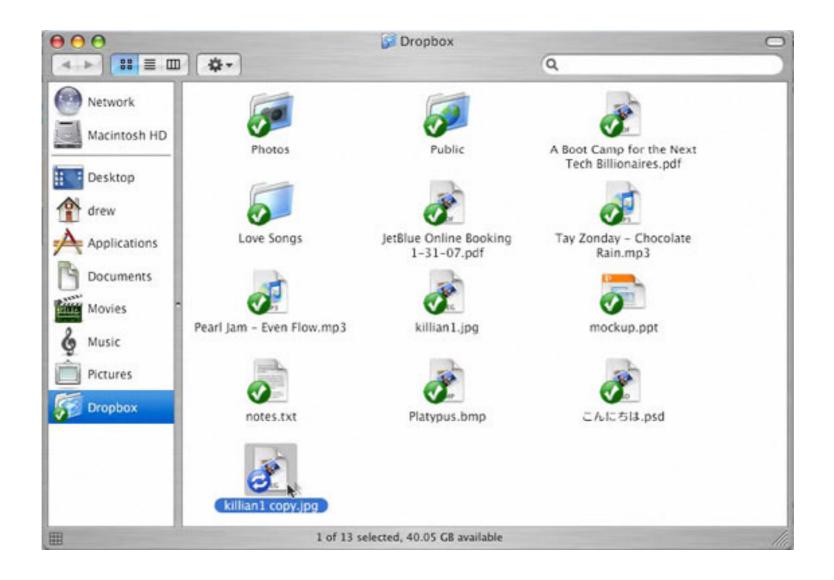
http://webanywhere.cs.washington.edu/wa.php

Close your eyes and listen! What website is this?

Color Blindness



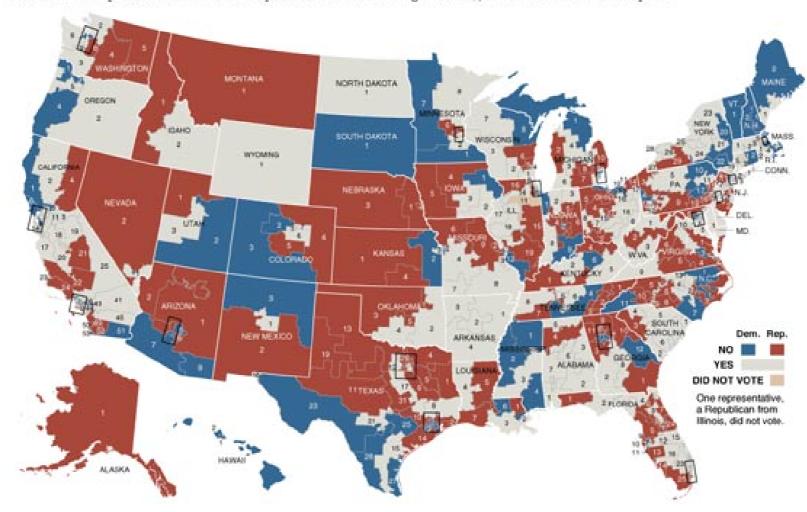
Color Blindness



Color Blindness

The No Votes

Details on the Republican and Democratic representatives who voted against the \$700 billion financial bailout plan.



Color Blindness



Example II: Aging-Related Conditions

Test how it feels to be old (e.g. can't move fingers because of Arthritis)



Image from http://www.at.ford.com/SiteCollectionImages/2011_FordOfEurope/April/Large/Third_Age_Suit _FFA-combi.jpg

Example II: Aging-Related Conditions

Design Guidelines

- Provide large targets, e.g., larger clickable graphics, for the mouse pointer.
- To reduce the number of clicks, do not require double clicking, use pull-down menus, nor have a deep hierarchy.
- When text must be read or scanned, use 12-14 point sans, serif (Helvetica, Arial) black text on a white background.
- The text should have appropriate, large headings in 14-16 sans serif font.

• ...

=> Can you think of more?

More Infos

W3C Web Accessibility Initiative http://www.w3.org/WAI/intro/people-use-web

Videos: People using Assistive Technology http://www.uiaccess.com/accessucd/resources_videos.html