Usability, Accessibility, and Universal Usability

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- Accessibility: web sites should not provide obstacles that prevent any potential users from accessing content
 - graphical content without textual alternatives
 - inputs that may require mouse movement

Usability: interfaces should

- make tasks and requirements easily comprehensible
- support needs and goals of users
- provide context, cues, and help that will increase chances of successful task completion

Universal usability

 sites should be usable for all users, despite differences in technology, skills, and cultures

But I am just a developer...

Why should software engineer be concerned about user interface?

- Ideally, expert in UI design will be designing...
 - but, that's not always the case
 - Ul design often short-changed in development shops
 - developers design interfaces, for better or worse
- Agile model
 - need to talk to clients/ customers to understand their needs.
 - can't assume that UI designers will hand off a finished design.

Accessibility

- Several million people in US alone are blind or have vision loss
 - As population ages, these numbers will increase
 - Other disabilities may cause sites to be inaccessible.
- Do you want to build sites that make it impossible for people to buy your products?
- Section 508 of US Rehabilitation Act Government regulations that require federal sites to be accessible (section 508.gov)

Quick guidelines – usability/ accessibility

- When in doubt, simplify
 - Design is done when there's nothing left to take away
 - ▶ few fonts, colors, etc. Don't overdo it.
 - Clear labels, links
 - Avoid multiple sets of links that might conflict
 - across the top and down the side
- Put content early in link
- Let the user know where they are in site and where they came from
 - breadcrumbs, etc.

Quick guidelines – usability/ accessibility (cont.)

- Be careful with colors use sparingly,
 - ▶ Don't rely on them for content color-blind users, etc.
- Use CSS for layout, not tables
 - alt tags wherever appropriate
 - though not all pictures are worth hearing about
- Use fonts carefully and appropriately
 - High-contrast text
- Use glitz only when necessary

Links and Breadcrumbs

- Root > Second Level > Third Level> ...
 - Indications of where you've been and context of current spot.
- Without context, get "lost in cyberspace" problem
 - Towson, Academics, Grad
- Differing sets of links for different users can help
- Content words first
 - "Graduate student life", "Graduate Student Community...", etc.

Usability resources

- www.useit.com
- www.ok-cancel.com
- http://www.designofsites.com/
 - 2nd edition
- www.websitesthatsuck.com