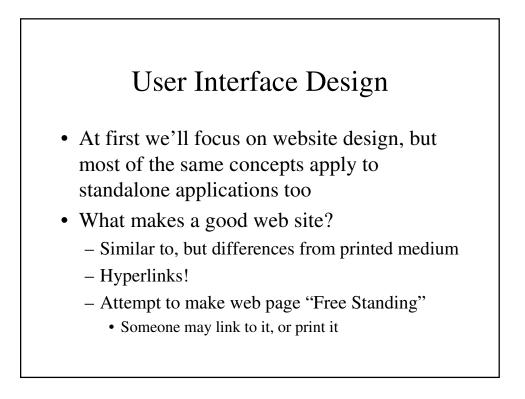
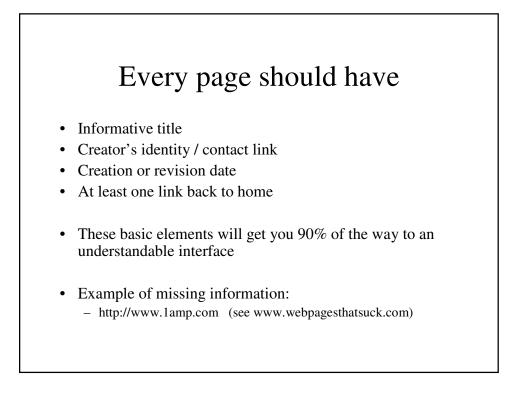
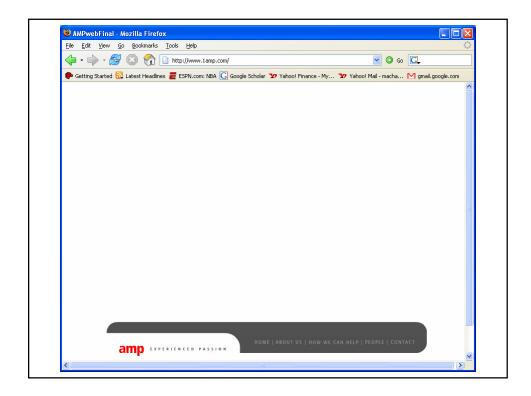
User Interface Design Principles CS 470

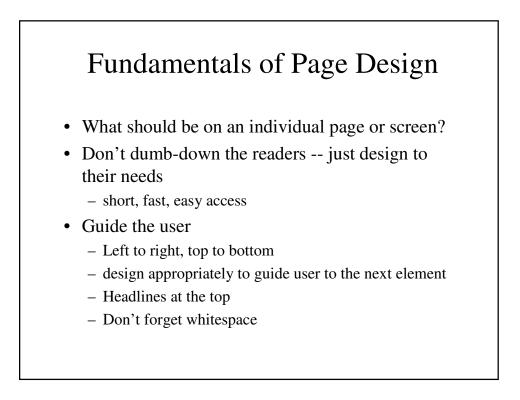


Same Questions as Print

- Who is talking? Is it an individual or an institution?
- What is the content about?
 - Titles, Headers
 - Consider bookmarks
- When?
 - Our CS page is an offender
- Where on your site are you currently located?
 - Navigational aids or pointers to the main page may be appropriate.
 - Button Bars

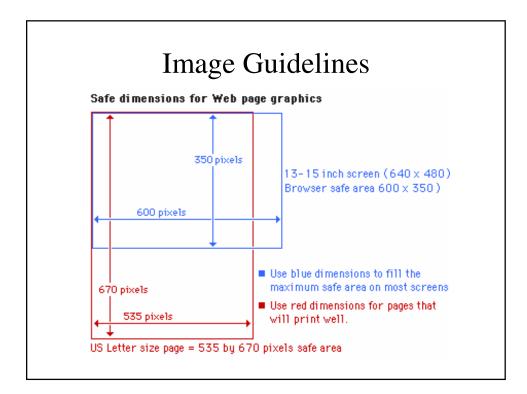


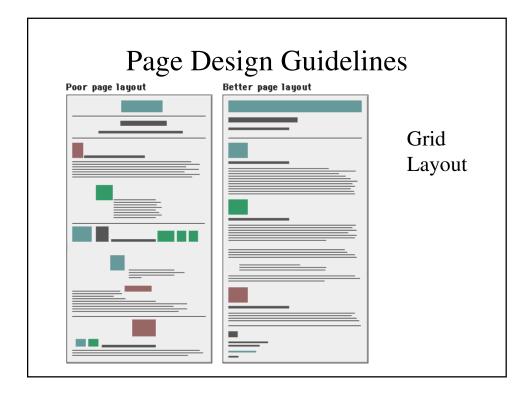


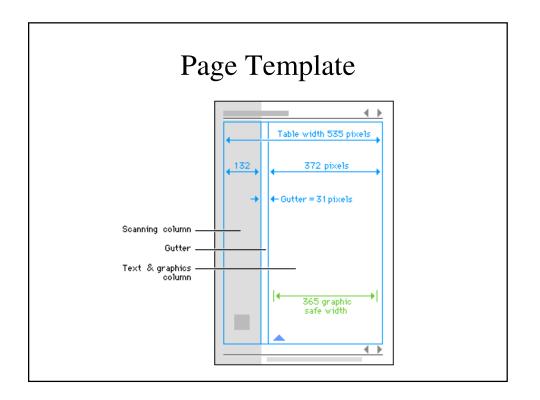


Page Design

- Avoid too-fancy graphics (unless experienced)
- Label icons
- Combine navigation bar with logo/graphics, use consistently!
- Remember that the screen is small
- Graphics or Forms too large: Layout more than 600 pixels wide may not properly render on a single page. (800x600 probably safe assumption today, unless for an ultraportable... or cell phone...)



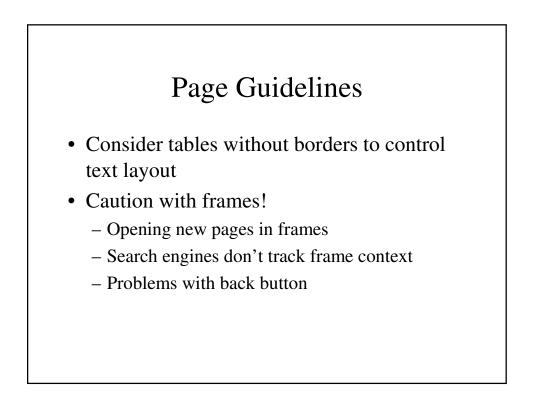




Fonts Different on Platforms

Relative sizes of TrueType font display

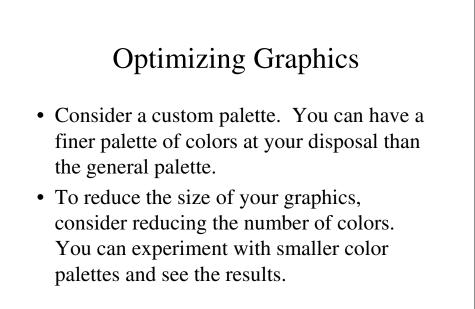
Windows95, 12 pt type	Macintosh, 12 pt type
Arial	Arial
Arial Black	Arial Black
Arial Narrow	Arial Narrow
Arial Rounded MT Bold	Arial Rounded MT Bold
Book Antiqua	Book Antiqua
Bookman Old Style	Bookman Old Style
Century Gothic	Century Gothic
Century Schoolbook	Century Schoolbook
Courier New	Courier New
Garamond	Garamond
MS LineDraw	MS LineDraw
Times New Roman	Times New Roman
Verdana	Verdana



Graphics

• Guidelines

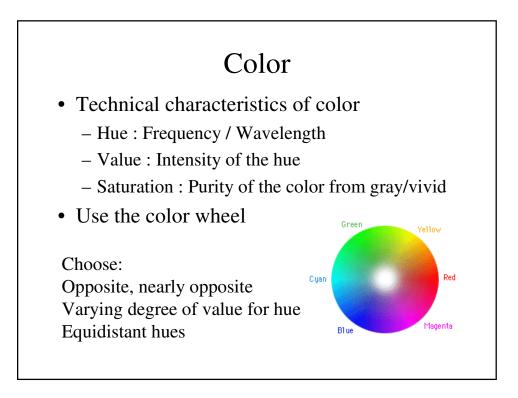
- 28.8kbps modem sends about 3.5Kb/second
- 35Kb graphic could take 10 seconds alone
- 10 seconds is the magic number to shoot for
- Formats
 - GIF
 - Consider interlaced to show progress
 - Caution on animated GIF's
 - JPEG
 - Generally better for photography
 - Designer can choose quantization and hence image size/quality



Technical Considerations

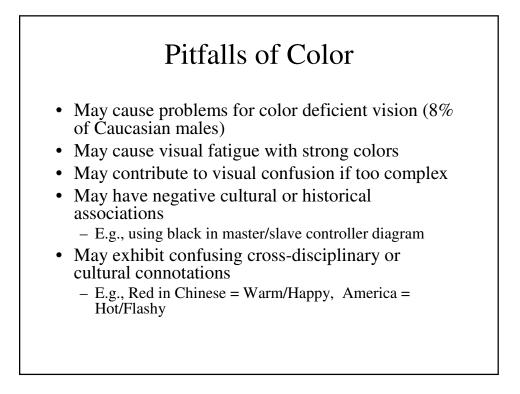
• Plug-Ins

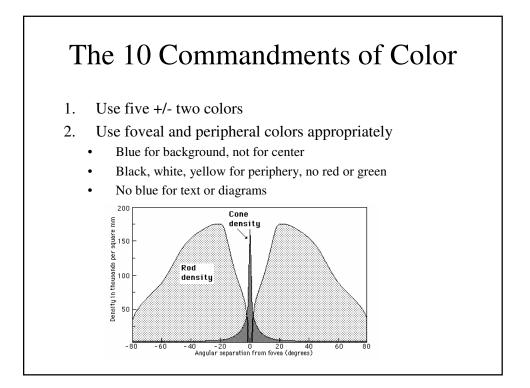
- PDF, Flash, RealAudio, etc.
- Don't use unless necessary or if you know that almost all of your targeted
- users will have the plug-in application already installed
- Animation
 - Appropriate for a very limited number of web sites
 - Can be distracting and generally not appropriate on information or ecommerce web sites
 - Appropriate for children, entertainment, perhaps ads
 - Example: http://www.webpagesthatsuck.com/topic59.htm
 - Example: http://www.aurigamusic.com/
 - Example: http://www.qualitycollisionservices.com/
 - Example: http://www.ridertown.com/

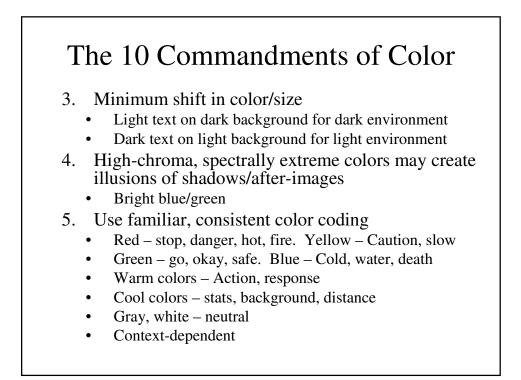


Uses of Color

- Call attention to specific data or information
- Identify elements of structure and processes
- Portray natural objects realistically
- Depict the logical structure of ideas and processes
- Portray time and progress
- Increase appeal, memorability, and comprehensibility
- Reduce errors of legibility or interpretation
- Increase the number of dimensions for coding data

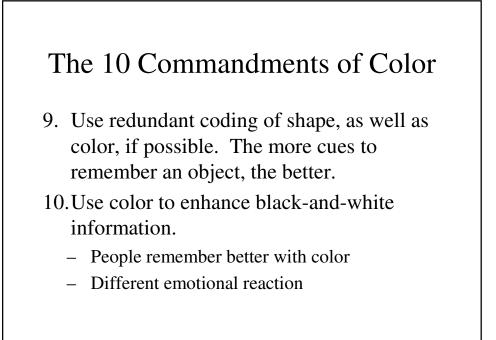


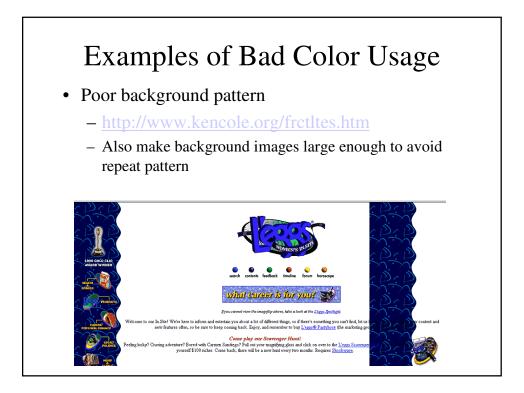


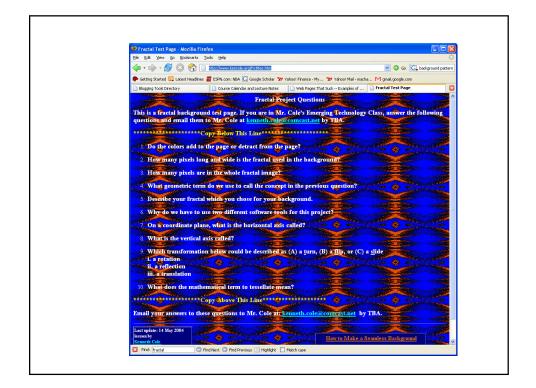


The 10 Commandments of Color

- 6. Use the same color for grouping related elements.
- 7. Color to your audience
 - Men prefer blue to red, women red to blue
 - Men prefer orange to yellow, women yellow to orange
 - Young prefer bright, old prefer sober/restrained colors
- 8. Use high-value, high-chroma colors to attract attention.
 - Bright red better / faster than yellow, orange
 - Older viewers have easier time with bright

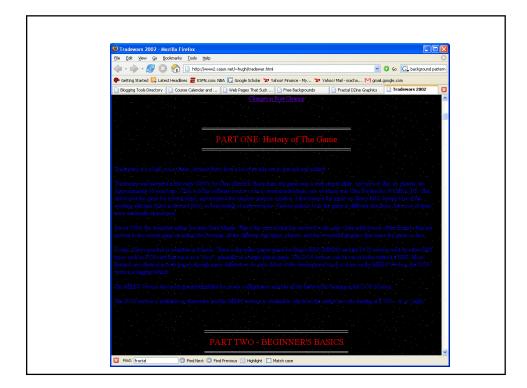






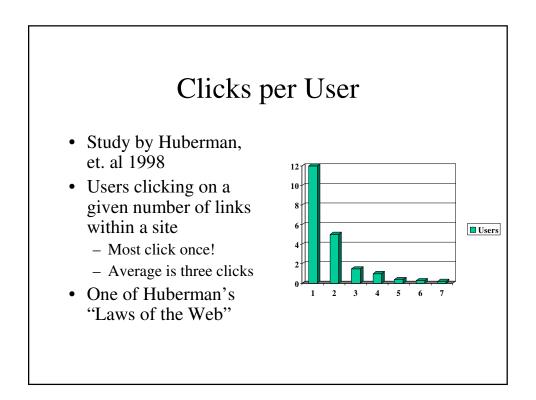
Color Contrast

- Hard to read colors:
 - http://www2.cajun.net/~hugh/tradewar.html
- Watch out for default colors!
 - Some browsers default to a white background and others to gray. Specify a background color in your body tag to ensure all browsers use the same color.



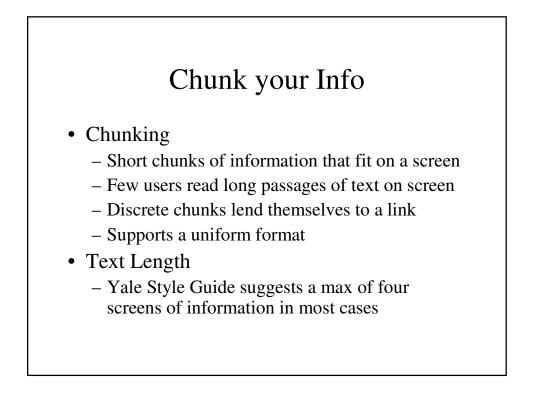
User Behavior on the Web

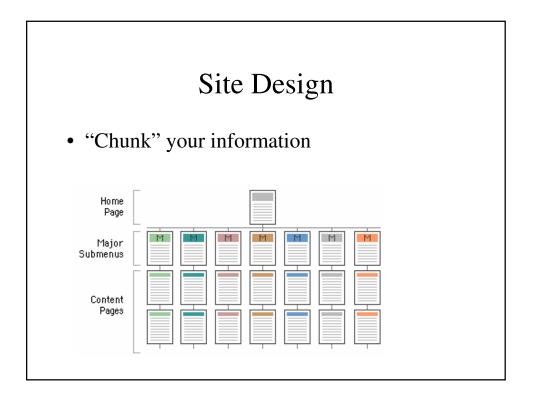
- Reduce clicking
 - Users prefer menus with at least 5-7 links
 - Prefer dense screen with many choices over deep path with few choices
 - Chunking of data vs. hundreds of individual menu choices

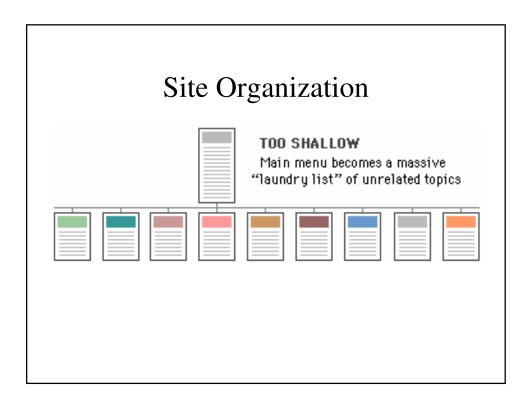


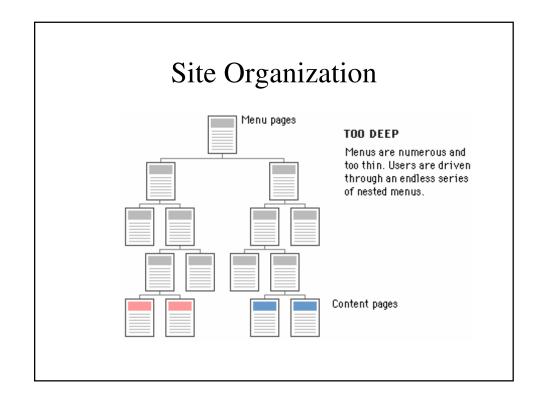
Organizing Information

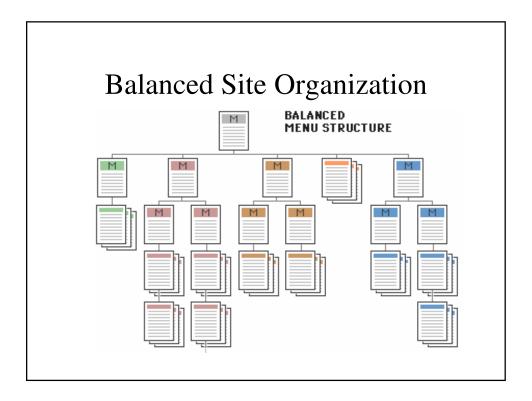
- Divide your content into logical units to minimize the number of clicks
- Establish a hierarchy of importance among the units
- Use the hierarchy to structure relations among units
- Build a site that closely follows your information structure
- Analyze the functional and aesthetic success of your system

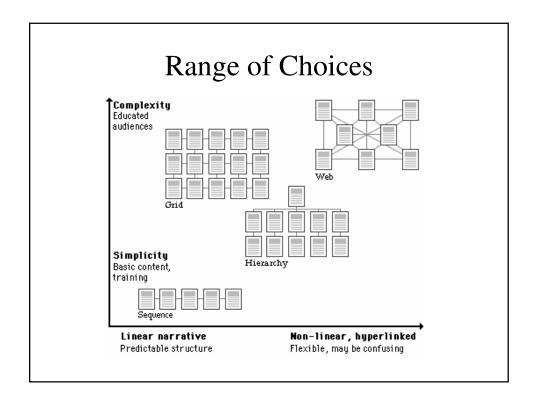


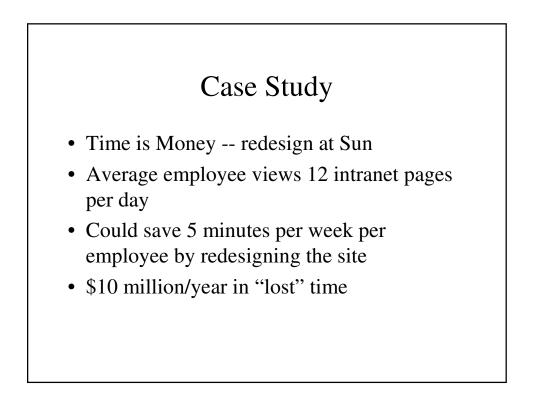


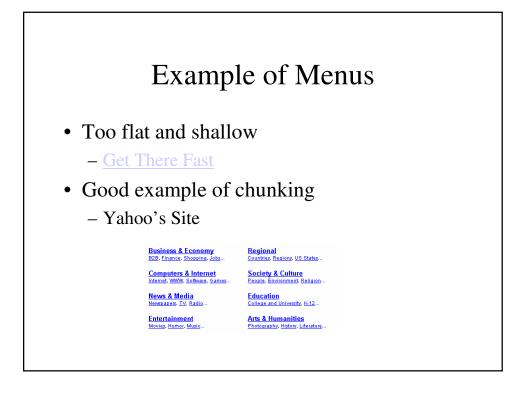


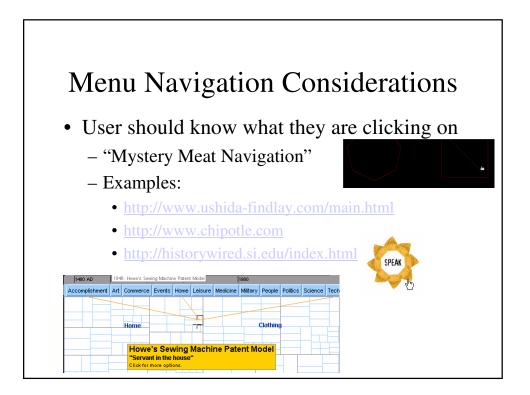


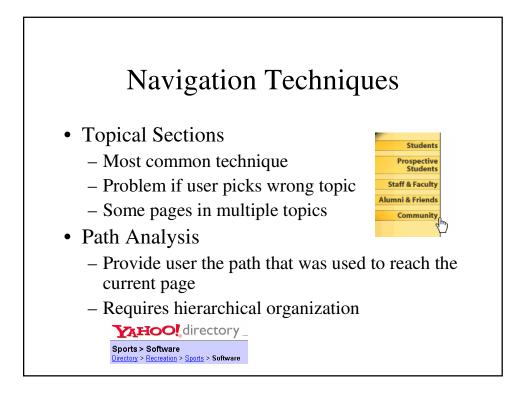




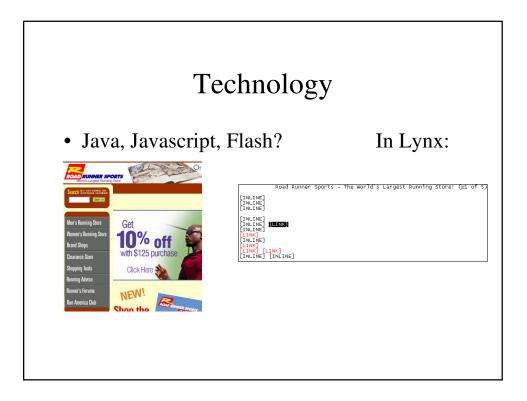


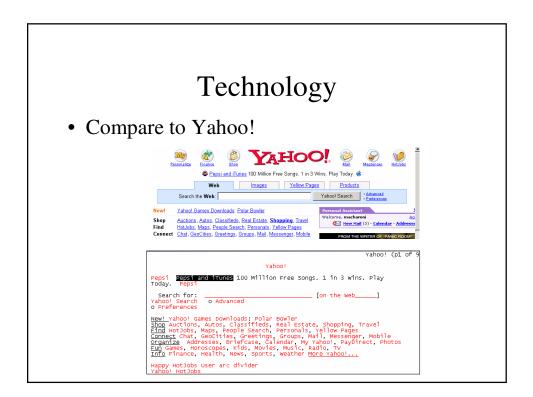






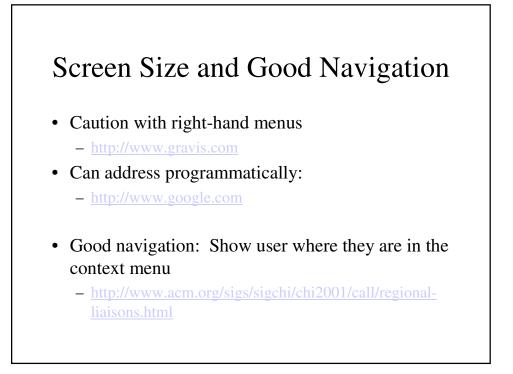


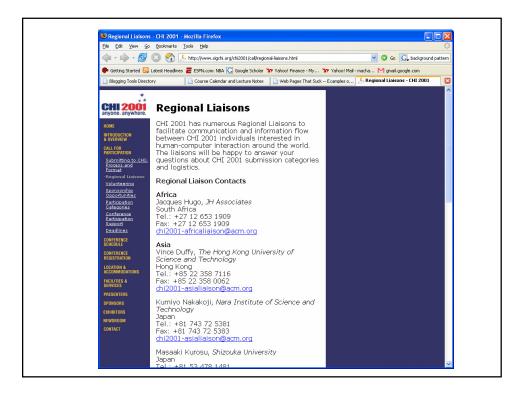


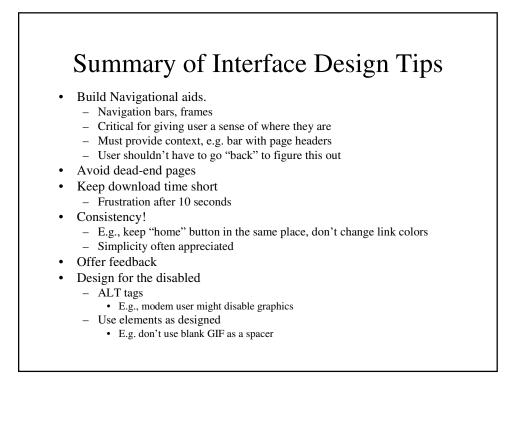


Navigation Location

- Navigation should always be present
- Consider location on the screen in relation to:
 - Monitor sizes
 - Screen resolutions
 - Window size

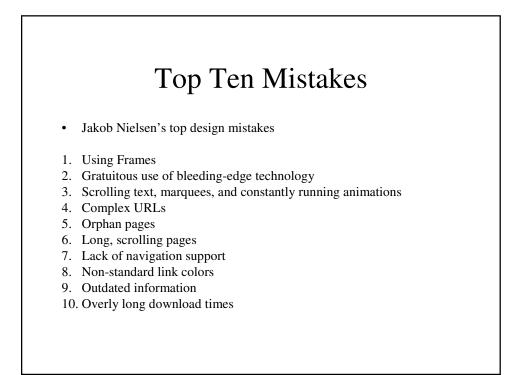






Design Considerations

- Graphics vs. Text menus, both desirable
- Animations (e.g. Flash), older browsers, web TV won't view them
- "Whats New" feature must be maintained, can help repeat visitors
- FAQ page
- Site Cover splashy graphics or animation to draw users in. For others, an annoying click that needs to be bypassed.



Evaluating Your UI

- Don't forget User Centered Design
- User Testing
 - Focus Group
 - Ask users to perform a task, watch sequence of steps taken
 - Time users on specific tasks
 - E.g., shopping for a specific item
- Build from your users and work your way up!
 - Readjustment to meet user needs