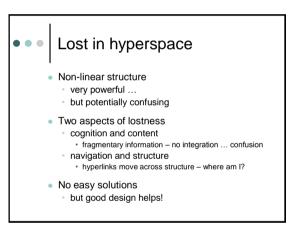
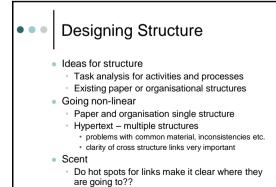


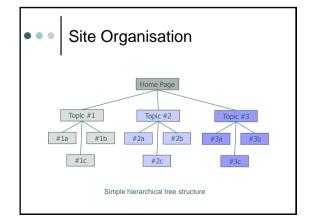
Design Matters! Web sites are usually competing for attention with many other similar sites Especially true of commercial sites Traffic is their "life-blood" Good design can drastically increase traffic E.g. CarsDirect.com NB See http://www.informationweek.com/773/design.htm Good design can increase return visits Good design can help turn "visitors" into

"customers"

Importance of Design







Navigation Tools

- How is the structure presented to visitors?
- 3 basic features of navigation design:
 - Where am I?
 - Where have I been?
 - · Where can I go?
- Navigational Graphics
 - Buttons
 - Image maps
- Buttons are powerful don't abuse them!

• • Consistency

- Be consistent in the design of navigational tools
- Buttons should be stylistically consistent (i.e. similar colour scheme, feel etc.)
- Location on screen should be consistent (do not change the orders of buttons on different pages
- If a button is inactive, then it should look inactive

Making navigation easier

- Maps
 - give an overview of the structure
 - Show current location you are here!
- Recommended routes
 - · Guided tour or bus tour metaphor
 - · Linear path through non-linear structure
- Levels of access
 - · Summary then progressive depth
- Supporting printing!
 - Needs linearised content, links back to source

• • • History, bookmarks, etc.

- Revisiting
 - · 'hub and spoke' access click-back-click-back
 - · lots of revisiting of pages
 - · 'back' is 30% of all browser navigation
 - but multi-step back and history used less
 - bookmarks and favourites for longer term revisiting
- Deep links
 - · bookmarks and external links into heart of site
 - are pages self explanatory? what site? where in it?
 - e.g. breadcrumbs for context

Appropriate Design

- Know what the objectives of the site are e.g.:
 - Make money
 - · Disseminate information
 - Disseminate opinions
 - Establish a virtual community
 - Ego sites
- Know who the target users are
 - Design for your audience what may be suitable for one group might be inappropriate, incomprehensible or even offensive for another

• • Content

- A web site must have useful content
- Content must be kept up-to-date
- Content must change regularly
- Content may be original, or it may be bought in (e.g. from news services)

The Home Page

- The gateway to the site much more than just a title!
- Must contain the following in an easily comprehensible form:
 - · The purpose of the site
 - · What kind of content is in the site
 - · How to find the content and use the site
- Must avoid:
 - · Sound / Multimedia that start automatically
 - · Anything difficult to read or intimidating

• • • Text (1)

- Avoid black backgrounds they are difficult to read (even with white text)
- Make sure there is a good contrast between the background and foreground
- Usually a dark foreground on a light background is most effective
- Do not mix a large number of fonts, sizes and styles
- Do not use multiple text colours (without a clear purpose) on the same page

• • • Text (2)

- Avoid overuse of exclamation marks, or block capitals
- Avoid long scrolling text
 - · break it up into multiple linked files
- Use CSS to limit the width of text, create white space and control positioning of elements

• • Text (3)

- Be careful specifying font face
 - platform issues
- Check for spelling, typos etc.
- Never ever use the <BLINK> tag
 "Of course, <BLINK> is simply evil. Enough said."
 Jakob Nielsen
- Similarly, think carefully whether scrolling text is useful

• • • Graphics (1)

- · Size of graphics can be a problem
 - There still some low bandwidth connections
 - Storage is a big problem in PDAs and mobile phone browsers
- Still a valid goal to optimize the overall download size of your pages

Graphics (2)

- Only use very large images if they are really needed (e.g. scientific/medical use)
 - Even then warn the user before they are downloaded
- Thumbnails are useful
- Crop images remove extraneous white space
- Optimise compression (various software and web sites will do this for both GIF and JPEG)

• • Graphics (3)

- Use JPEG for photographs (24 bit)
- Use GIF for drawings buttons etc., or when transparency is required
- Use the height & width parameters of the tag
- Never use the height & width parameters to rescale an image.
- Use the alt parameter of the tag

• • Graphics (4)

- Background images
 - Don't use images that distract from the foreground
 - They should be very high contrast to text (i.e. dark text on a light background or vice versa)
 - Avoid incompatible colour combinations (e.g. red/green)
 - Avoid lurid colours

• • Graphics (5)

- "Browser safe" colours
 - Many colours are rendered slightly differently by different browsers, or on different platforms
 - 216 colours are standard
- Clip art a mixed blessing
 - Commercial clip art can be very good but expensive
 - Free clip art is often poor quality
 - Good free clip art is often used so widely it becomes a cliché

• • • Graphics (6)

- Respect IPR
- Animated GIFs
 - · can be very effective
 - but be extremely sparing avoid cognitive overload

Audio and Video

- Now easy to author
 - Tools to edit sound & video and burn CDs & DVDs
- · Easy to embed in web pages
 - Standard formats (QuickTime, MP3)
- Still big ... but getting manageable
 - Memory OK ... hand held MP3 players, TiVo etc.
 - but download time needs care tell users how big!
- Very linear
 - Hard to add 'links' often best as small clips or background

• • Audio issues

- Formats
 - Raw sound samples
 - Huge ... used for mixing and editing
 - MIDI
 - Just which notes played and when
- MP3
 - Uses psychoacoustics how the ear hears
- Issues
 - Annoying if unwanted
 - Even more annoying for others!

Using animation and video

- Potentially powerful tools
 - Note the success of television and arcade games
- but ...
 - How to harness the full possibilities of such media
 - Different from 'standard' interfaces
- so ...
 - Need to learn from film makers, dramatic theory, cartoonists, artists, writers

● ● ● Summary

- Website design
 - Information structure
 - Navigation
- Webpage design
 - Text
 - Graphics
 - Audio
 - Video