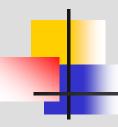
User-Centered Website Development: A HumanComputer Interaction Approach





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PowerPoint slides by Dan McCracken, with thanks to Rosalee Wolfe and S. Jane Fritz, St. Joseph's College

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6. Navigation Design

In this chapter you will learn about:

- Site-level navigation: making it easy for the user to get around the site
- Page-level navigation: making it easy for the user to find things on a page



Navigation: connections

- Good navigation builds on good content organization (Chapter 4)
 - Choose a navigation system that reflects the content's organizational structure
- Visual design (Chapter5) and navigation design are interrelated
 - Choose visual navigation elements that build context for a user
- A navigational system is a visual representation of an organizational structure



Three types of navigation systems

- Hierarchical
 - Derived from hierarchical organizational structure
- Ad hoc
 - Hyperlinks
- Database
 - Search engines
- The most common is hierarchical, with many ad hoc links added



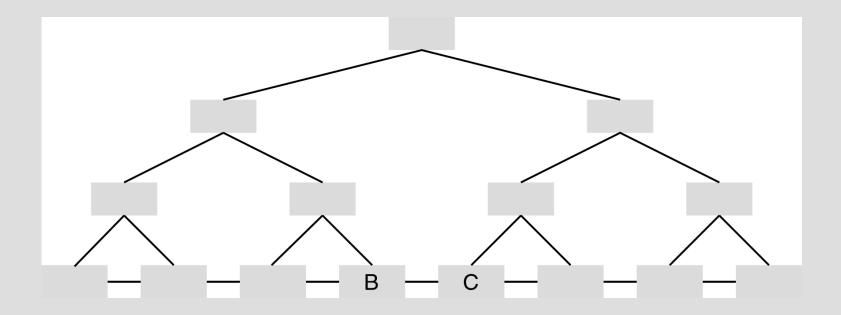
Rare to use only one

- Most websites build on a judicious combination of these three, with one dominant theme
- Hierarchical plus hyperlinks very common



A pure hierarchy is rare

We add links to facilitate moving around the hierarchy without going all the way to the top; note extra links at bottom level





Global navigation

 For a small site, it may be possible to show the major links on every page

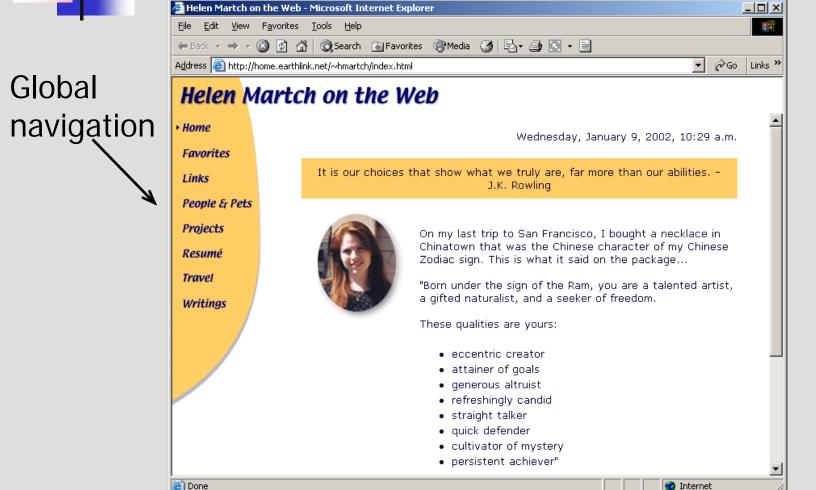


Global navigation

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Global navigation bar can be vertical



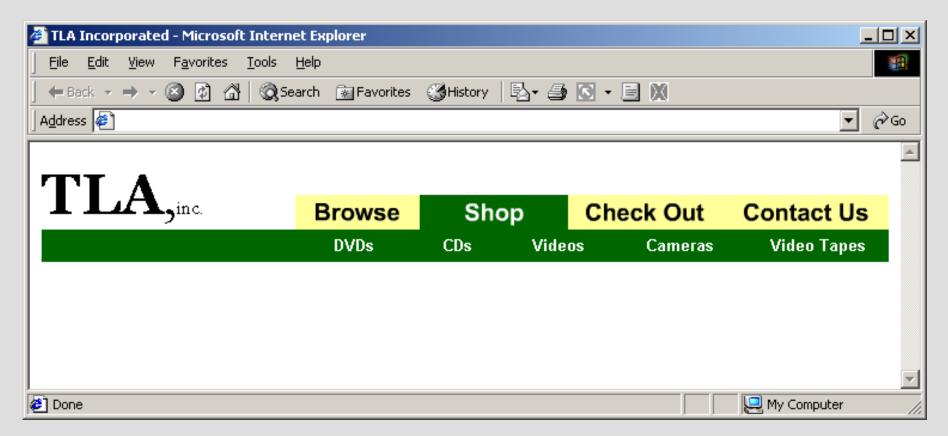
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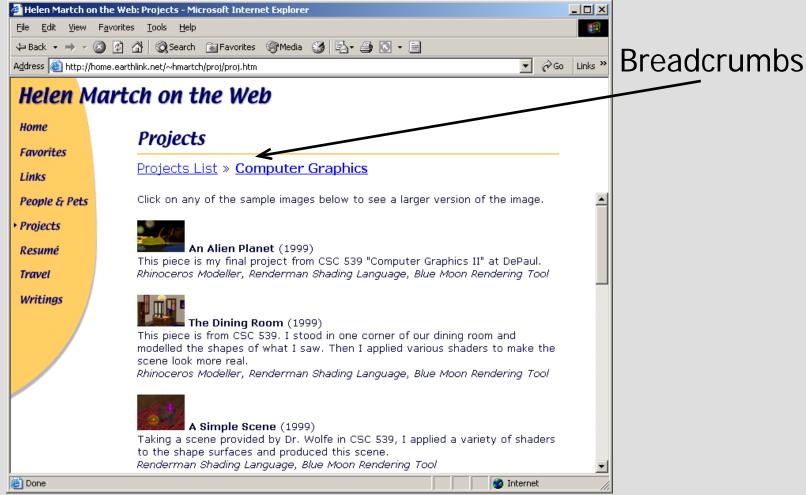
Showing more levels in the hierarchy

Drop-downs or pull-outs can show the next level





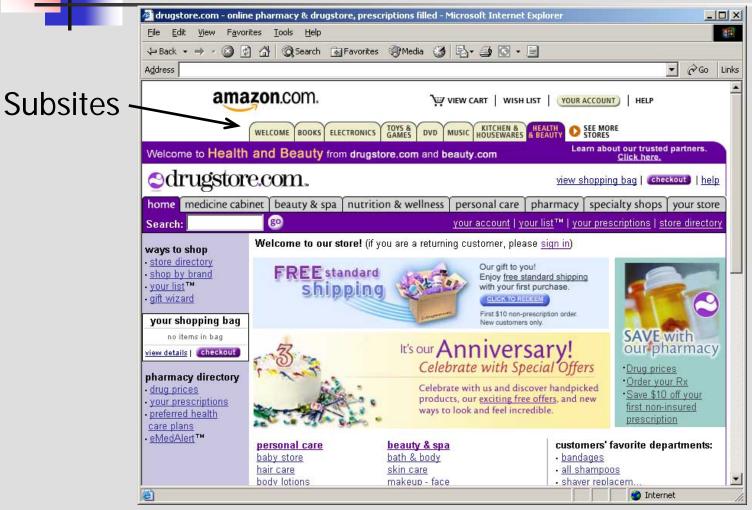
Breadcrumbs show user "This is where you are how you got here"



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Many sites have subsites

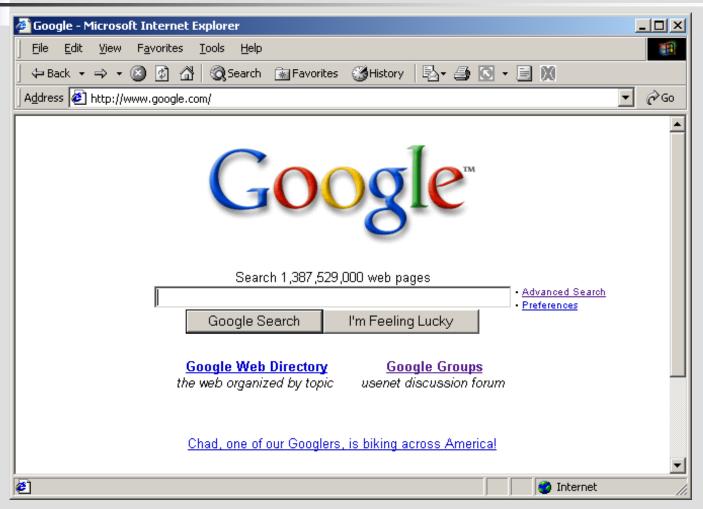




Ad hoc links are very common









Graphical navigation bar





Vegetables

Flowers

Herbs

Accessories

Resources





Vegetables

Flowers

Herbs

Accessories

Resources





Vegetables

Flowers

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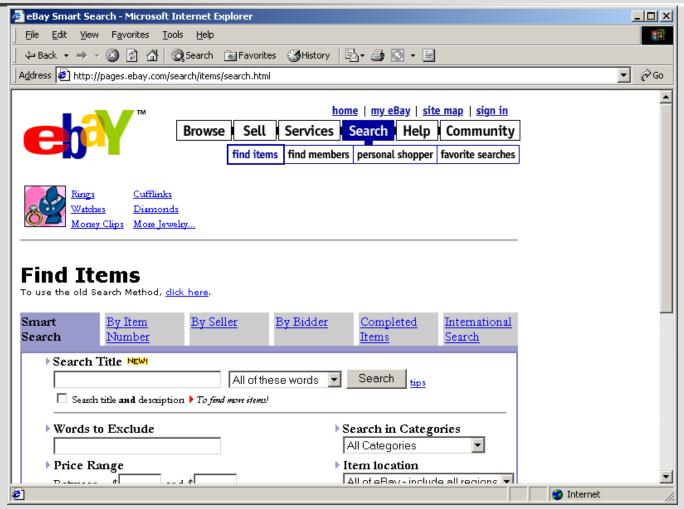
Accessories

Resources

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Building context for the user with navigation bars







Be careful with metaphors: what do these mean?



Test Users' Interpretations: World, global view, planet, the world, Earth.



Test Users' Interpretations: Health field, money, health care is expensive, Clinton's health plan, hospital, don't know, benefits.



Test Users' Interpretations: TV set, video, TV, TV, TV.





Intended meanings. Moral: add words, too!



Intended Meaning: Geographic view of the company (branch offices in different locations).



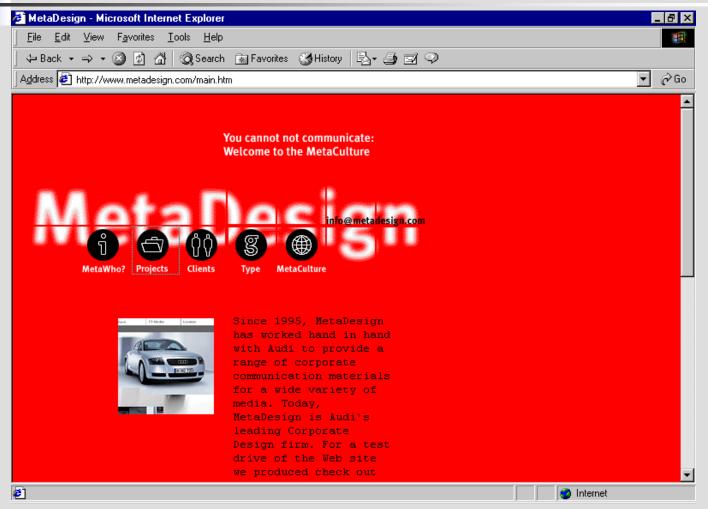
|*Intended Meaning:* Benefits.



Intended Meaning: Public relations (TV) with commercial).



So add words!







Some standard meanings

Label and meaning

- Home: the main entry point of a Web site, generally containing the top-level links to the site
- Search: find related pages by supplying a word or a phrase
- About Us: information about the company that created the site
- Shop: browse for merchandise
- Check Out: supply shipping and billing information, complete transaction



Menus pack in a lot of information; note the dropdown from Software



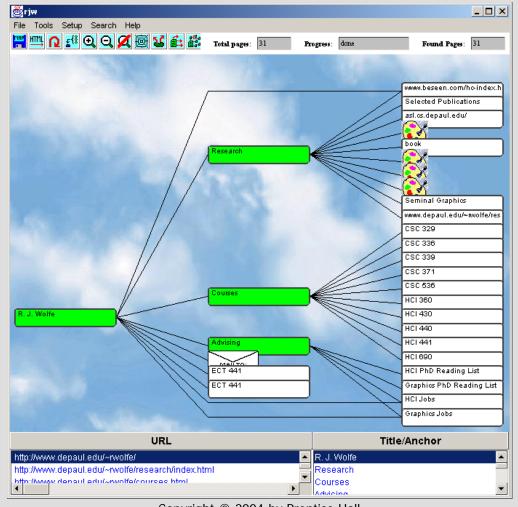


Site maps

- Textual
 - Takes work
 - For a big site, must be selective
- Graphical
 - Cool—for a small site.
- A site map is no substitute for good navigation



Graphical site map example



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Frames

- A frame is an area of the browser window that stays visible as the user moves from page to page
- A simple way to provide global navigation
- But hogs screen real estate: you can't do anything else with that space
- May not print
- Hard (impossible?) to bookmark
- Used much less often than formerly
- See Jakob Nielsen, "Why Frames "Suck (Most of the Time)"





Built-in browser services

- History of pages visited
- Back button
- Forward button
- Color coding of links
 - Unvisited
 - Visited
 - Active
- Don't mess with the convention that blue is an unvisited link.



Page-level navigation aids

- Remember proximity, alignment, consistency: make the layout obvious
- Make size of text box appropriate to the amount of data
- (How many forms have you filled out where some box is MUCH too small for what you have to enter? What were those people thinking?)
- Show which fields are required, with * or Required
- Make button placement consistent: before or after its associated text





Make error reports clear

- Say explicitly what the problem was
- Perhaps change the color of the offending box
- Show as many errors as possible on one page; don't make user correct one error per attempt to send the data
- Don't make user re-enter correct data
- Sounds obvious, huh? Then why are so many forms terrible?
- Sales are lost at this point, in big bad quantities



In this chapter you have learned that:

- Effective navigation is a combination of good content organization and good visual organization
- The main navigational system is hierarchical, with a lot of hyperlinks added
- You can learn from all the bad sites you've suffered with