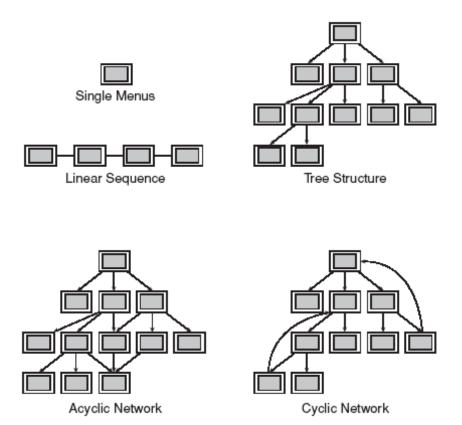
CS 315 – Intro to Human Computer Interaction (HCI)

Menus, Form Fill-In, Dialog Boxes

Goal

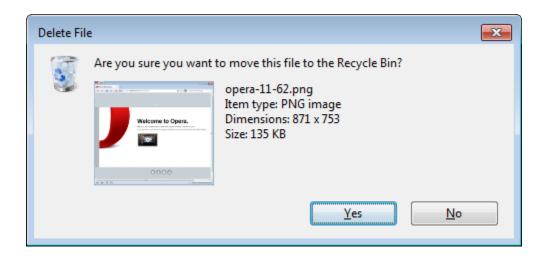
- "The primary goal for menu, form-fillin, and dialogbox designers is to create a sensible, comprehensible, memorable, and convenient organization relevant to the user's task."
- Hierarchical Decomposition
- What are examples of non-computer menus?

Menu-Selection Applications

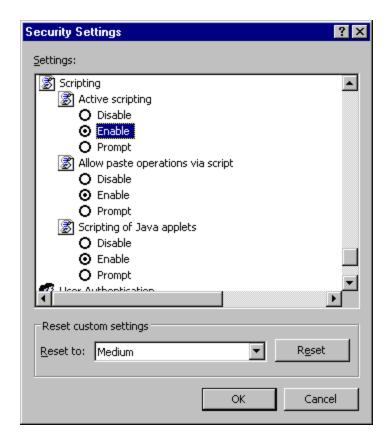


Single Menus

Binary Menu



Radio Buttons



Check Boxes

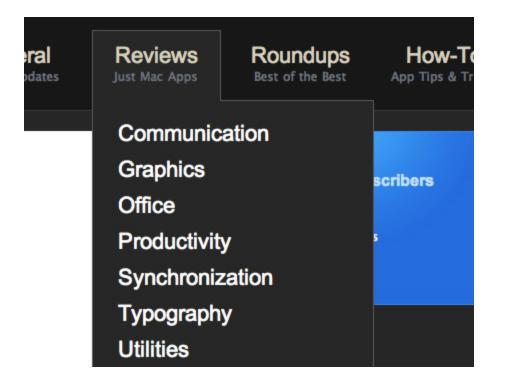
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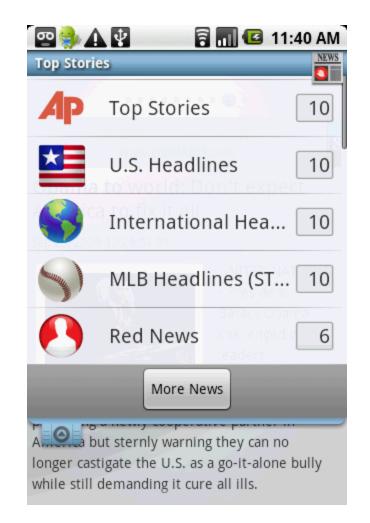
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Pull-Down Menu





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Toolbars, Iconic Menus, and Palettes

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What do these mean?





Which Toolbars are Decipherable to You?

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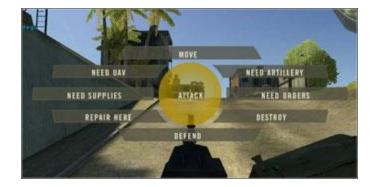
Pop-Up Menus



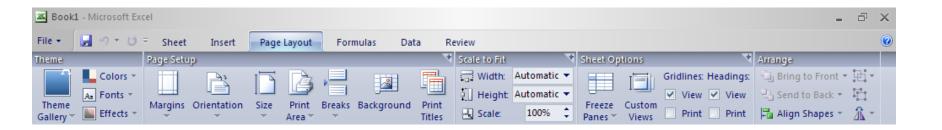


Pop-Up Menu / Pie Menu





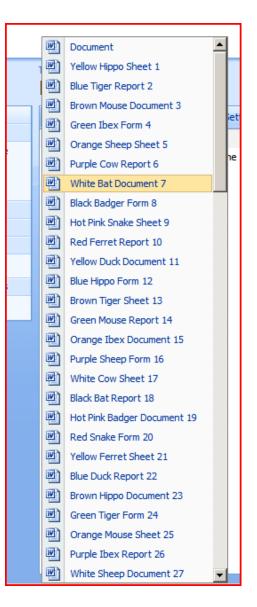
Ribbons



Scrolling Menu



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Lifestyle		
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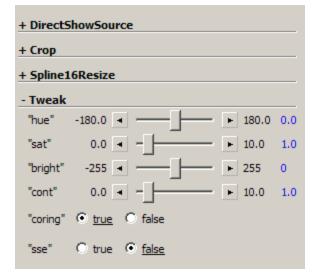
Combo Box Menu

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Fisheye Menu



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Two Dimensional Menus



Two Dimensional Menus

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Combinations of Multiple Menus

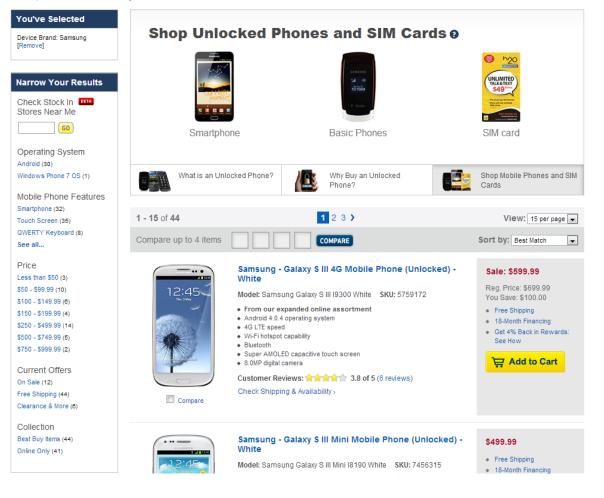
Linear Menu Systems

Lookup Wizard

NXXXXXX NXXXXXXX XXXXXXXXX XXXXXXXXXX XXXXXX	This wizard creates a lookup column, which displays a list of values you can choose from. How do you want your lookup column to get its values? I want the lookup column to look up the values in a table or query. I will type in the values that I want.
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Simultaneous Menus

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Tree Structured Menu

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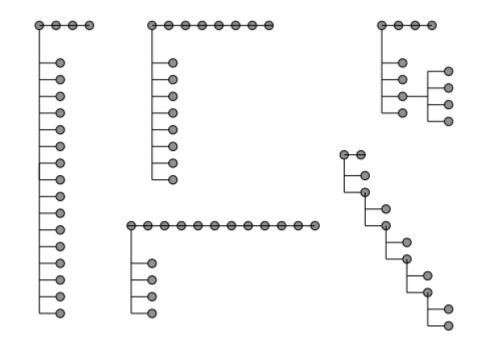
Tree Menus

- Too many choices for one menu
 - Menu with 4 levels
 - Each level has 30 items
 - Total of 810,000 choices (30⁴)
- Categorization and grouping are not an easy task

Deep or Broad

- Depth: number of levels
- Breadth: number of items per level
- Several ways to group. For 64 items:
 - 8 items on 2 levels; 4 items on 3 levels; 2 items on 6 levels
 - 4 item menu followed by a 16 item menu
 - 16 item menu followed by a 4 item menu
- Strong evidence that breadth should be preferred
- Rule of thumb: limit menu trees to 3-4 levels

Deep or Broad



- Task-related grouping in tree organization
 - Create groups of logically similar items
 - Form groups that cover all possibilities
 - Make sure that items are nonoverlapping
 - Use familiar terminology, but ensure that items are distinct from one another

Item Presentation Sequence

- The order of items in the menu is important, and should take natural sequence into account when possible:
 - Time
 - Numeric ordering
 - Physical properties
- When cases have no task-related orderings, the designer must choose from such possibilities as:
 - Alphabetic sequence of terms
 - Grouping of related items
 - Most frequently used items first
 - Most important items first.

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• Adaptive vs. Adaptable Menus

Card Sorting

 Card sorting is a methodology that can be used to capture users' mental models of how information is organized in a software interface



Conducting a Card Sort

- **Dual group membership.** Dual group membership means that the participants believes an item belongs to more than one group.
- **Miscellaneous Group.** It is typical for participants to put ambiguous items into a "Miscellaneous" group.
- Individual Differences. Individual differences, such as experience and level of expertise, often contribute to the different rules that individuals use when sorting cards into groups.
- Semantic Clustering. Words have semantic meanings that force some people to group words by similarity of meaning rather than according to the goal of the sorting exercise.

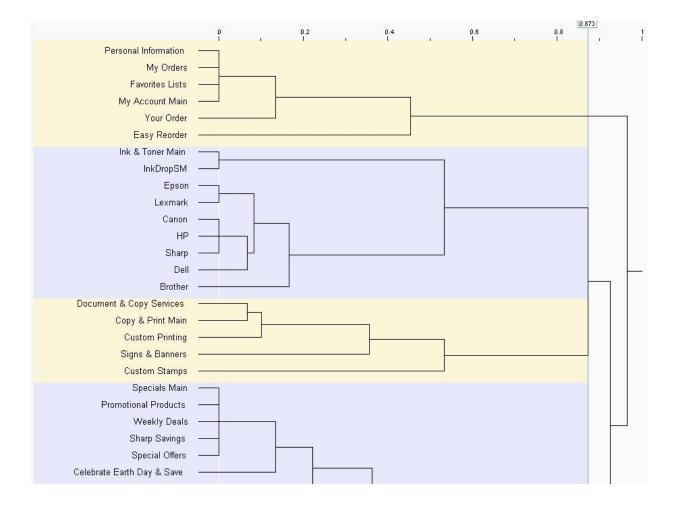
Analyzing Card Sorting Results

- Frequency. This is as simple as adding all the items participants put in a group and then doing a frequency count.
- Hierarchical cluster analysis. This is typically used to create a proximity matrix or a dendogram, and it is the most common method used to analyze card sorting results.

Proximity Matrix

	Cat	Dog	Bird	Lion
Cat	1	.5	.01	.7
Dog	.5	1	.01	.3
Bird	.01	.01	1	.01
Lion	.7	.3	.01	1

Dendrogram



In-Class Activity

Sort the following cards for a camping website

References

- <u>http://www.codinghorror.com/blog/2006/02/someti</u> <u>mes-a-word-is-worth-a-thousand-icons.html</u>
- <u>http://blogs.msdn.com/b/jensenh/archive/2005/09/</u> <u>14/467126.aspx</u>
- <u>http://blogs.msdn.com/b/jensenh/archive/2006/01/</u> <u>30/519335.aspx</u>
- <u>http://boxesandarrows.com/card-sorting-a-</u>
 <u>definitive-guide/</u>