



Midterm Course Evaluation Results

- · Overhead problems
- Hall of Fame & Shame
- · Slides (but not notes) in advance

Quiz on Wednesday Topics - Usability - Iterative design - User & task analysis - Model human processor - Color - Conceptual models & metaphor - Affordance, constraint, visibility, feedback - Errors - Nielsen's heuristics - Heuristic evaluation Prototyping - Graphic design principles • Everything is fair game - Class discussion, lecture notes, readings, assignments Closed book exam, 80 minutes Fall 2003 6.893 UI Design and Implementation 6

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- · Time to make prototype
- · Materials that worked well or badly
- · Useful implementation tricks
- Parts of UI that are hard to prototype
- · How it feels to be a user
- · How it feels to watch a user
- · Surprises learned from watching users

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Paper Prototyping is Not Enough Low fidelity in: – Look

- Feel
- Dynamics
- Response time
- Context
- Users can't try it without a human to simulate computer

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Computer Prototype

- · Interactive software simulation
- High-fidelity in appearance & interaction
- · Low-fidelity in depth
 - Paper prototype had a human simulating the backend; computer prototype doesn't
 - Computer prototype is typically horizontal: covers most features, but no backend

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Everything you learn from a paper prototype, plus: Screen layout Is it clear, overwhelming, distracting, complicated? Can users find important elements? Colors, fonts, icons, other elements Well-chosen? Interactive feedback Do users notice & respond to status bar messages, cursor changes, other feedback

What You Can Learn From Computer Prototypes

Fitts's Law issues
 Controls big enough? Too close together? Scrolling list is too long?

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Storyboarding Tools		
 PowerPo – drawing Flash/Dir – animati HTML image All these Help or For high widgets to 	bint gs + hyperlinks rector ion + actions maps tools have scripting languages, too rechestrate the transitions fidelity look, take screenshots of from a form builder	
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Pros & Cons of Form Builder

• Pros

- Direct manipulation editing, not coding
- Actual controls, not just pictures of them
- Can hook in some backend if you need it
 But then you won't want to throw it away
- Cons
 - Limits thinking to standard widgets
 - Useless for rich graphical interfaces

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Technical Challenges to Graphic Design

- · Window resizing
- Platform differences
- Internationalization

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