Poster Session Redux

- Focus to this point on identifying breakdowns
- If tasks feel too low level, then abstract more
- A couple of groups are reaching for generalization
 - Can talk to me
 - Many vanilla breakdowns

Vanilla Breakdowns

- Paper-electronic divide
- Scheduling/Resource tracking/Information visualization
 - InfoSilem example

Breakdowns

- Scale is important, but it can still be simple
- Consider music conductors

- Example story
 - DEC typist
- Trade-off
 - Scrutiny of small point solutions will be stronger, but don't avoid them

User Environment

Contextual Design: Stages

- Interviews and observations
 - Done this
- Work modeling
 - Five Models
- Consolidation
 - Affinity diagrams + consolidated models
- Work redesign
 - Task Analysis, Visioning, New task description (HTA)
- User environment design
 - Today
- Prototypes
- Evaluation
- Implementation

Transforming Work

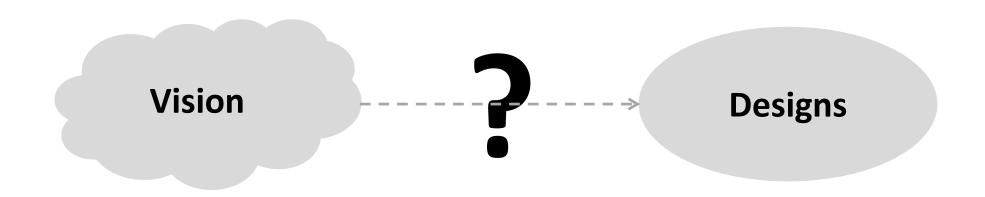
- First step is to identify a set of breakdowns that can be addressed
- Generate your vision of a new system from this
 - What you want to solve.
 - What you want to keep.
 - How you will evaluate success.
- Transform work in a way that incorporates new system you design
 - Synthesis of new work and system

Visioning exercise

From Vision to Design

- A new way or working
 - Transform work using HTA to represent new work practice
- An intermediary representation of system
 - Allows us to represent coherent chunks of work process
 - Allows us to define functionality necessary to perform those coherent chunks of work
 - Want to define the intent of the system independently of how system will meet that intent
- Intermediate representation preserves freedom
 - Can still explore alternative implementations

Intermediary Representation



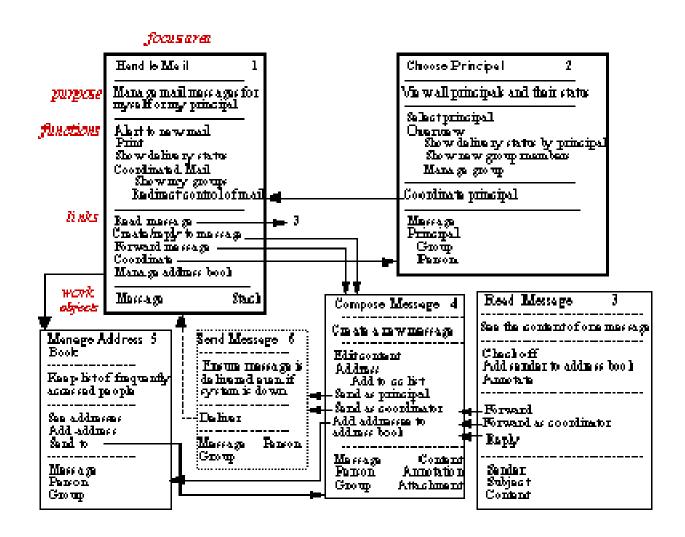
Breaking up System Design

- Every system has places where user can work
- Each place has a set of functions available
- Each place has links to other, related places
- UED is like a floor plan for what work will be performed where and on what

UED Elements

- Focus areas (the places)
- Links between focus areas
- In each focus area:
 - Name
 - Purpose
 - Functions provided
 - Objects that are manipulated

Example UED



UEDs and UML

UEDs

- Logical places within system
 - Screens, views where work occurs
 - No h/w or s/w constraints
- A user-centric view

UML

- Architecture of program
 - Classes with attributes,
 methods responsibilities
 - Interactions between classes
- A programmer-centric view

- Beyer and HoltzBlatt paper
 - Note that UED can represent a simplification of class diagram

Examples

- What is intent of the following places?
- What is not offered in each place?



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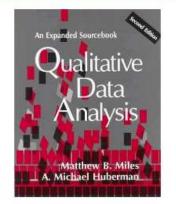


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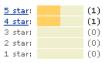


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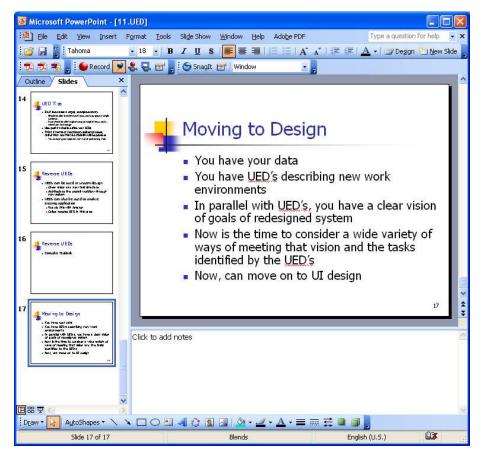


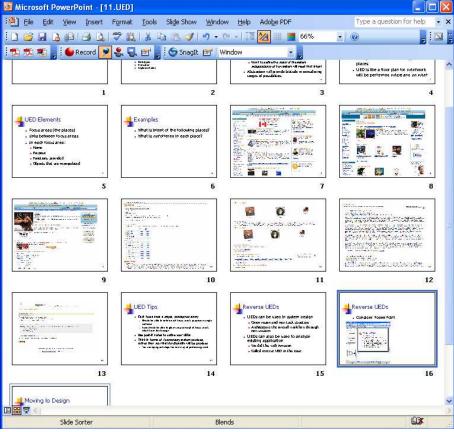
Benefits of UEDs

- Presents structural issues of system
 - Goal is to produce a system design that keeps users work coherent
 - Formalizes system structure to support work flow, connected activities
- Any system you think of has UED
 - If system seems incoherent, probably poorly structured
 - Banking systems
 - Post-its
 - You can reverse engineer systems using UEDs
 - Competing systems, previous systems
 - We did this with Amazon
 - Called Reverse UED

Reverse UEDs

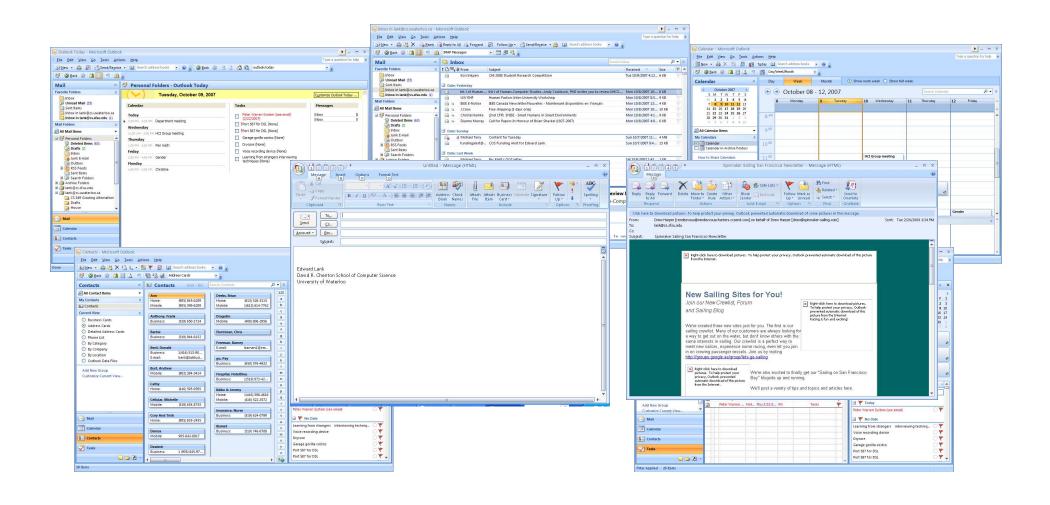
Consider PowerPoint





Reverse UEDs

Consider Outlook



UEDs and Contextual Design

- UEDs are used to further identify what functionality your system will provide
- Also shows where users need that functionality

Building your UEDs

- Using HTA to capture work redesign useful for UED construction
 - HTA captures steps and sequences associated with new work practice
 - Use HTA steps to construct a UED, going through new activities one by one

UED Tips

- Each focus area a single, conceptual entity
 - Should be able to define each focus area's purpose in single sentence
 - User should be able to glean crisp concept of focus area's intent from final design
- Use post-it notes to define your UEDs
- Think in terms of functionality system provides, rather than how that functionality will be provided
 - You are laying out steps for new way of performing work

UED Tips (2)

- Not separated but parallels work redesign
- Look at UED to check redesign
 - Are areas coherent?
 - Do focus areas overlap in purpose
- Textbook suggests using storyboards
 - Do this too, if you feel more comfortable
- Storyboards and droopy leaf figures

UED Tips (3)

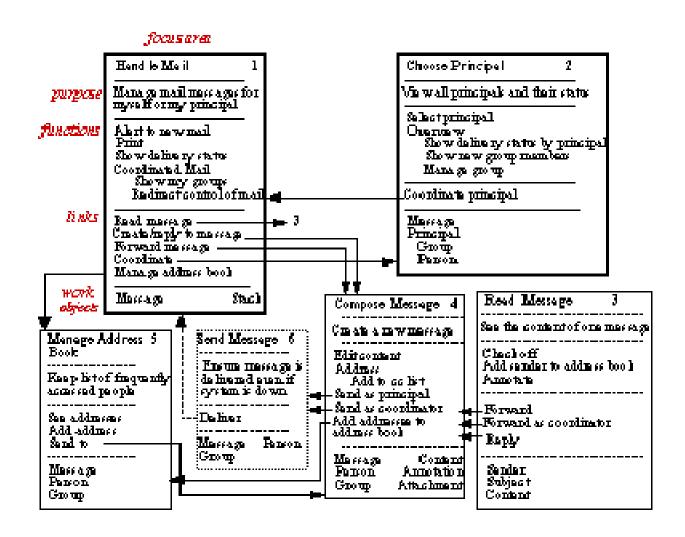
Textbook

- "We've found teams coming up to speed ... do better thinking and designing in UI sketches, capturing them in storyboard, and then pulling out the implications for the UED."
- Feel free to mix this with UI sketching (next day)

Summary of UEDs

- UEDs can be used in system design
 - Given vision and new task structure
 - Architecture the overall workflow through new system
 - Done in conjunction with work redesign
- UEDs can also be used to analyze existing application
 - Called reverse UED in this case

Example UED



Moving to Design

- You have your data
- You have a clear vision of goals of redesigned system
- You create new work flow using HTA
- You create UED's describing new work environments (system you build)
- Now consider ways of meeting that vision and the tasks identified by the UED's
 - Move on to UI design, platform and technology selection, etc.
 - Back to brainstorming