User Centered Design

Why User Centered Design is important Approaches to User Centered Design

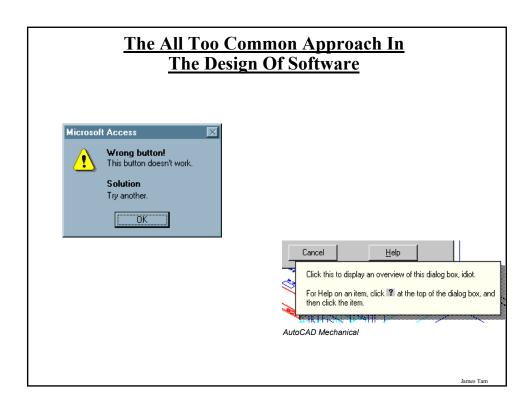
Iomas Tom

The Design Of Well Crafted Tools









System Centered Design

What can be built easily on this platform?

What can I create from the available tools?

What do I as a programmer find interesting to work on?



User Centered System Design

Design is based upon a user's

- Abilities and real needs
- Context
- Work
- Tasks
- ...know the person you are designing for.



User Centered System Design

Three assumptions

- A good design will satisfy the needs of the user group
- Collaborative
- Constant communication

From Denning and Dargan, p111 in Winograd, Ed., Bringing Design to Software, Addison Wesley

James Tan

Participatory Design

Problem

Solution

- Intuitions wrong
- Traditional methods (e.g., interviews) suffers from a number of weaknesses

• Designer cannot know the user sufficiently well to answer all issues that come up during the design



The user is just like me

- Designers should have access to pool of representative users
 - ACTUAL end users, not their managers or union reps!

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Participatory Design

Users become first class members in the design process

Users considered subject matter experts

Iterative design process



Participatory Design (Up Side)

Users are excellent at reacting to actual designs (prototypes).

Users can bring in important "folk knowledge" of their work context.

Often results in greater "buy in" for the final system

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Participatory Design (Down side)

Hard to get a good pool of end users.

Users are not expert designers.

The user is not always right.

Methods For Involving The User

1) At the very least, talk to users

• It's surprising how many designers don't!

2) Contextual Inquiries

- Interview users in their usage place (e.g., office), as they are doing their job
- Used to discover user's culture, requirements, expectations, etc.



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Methods For Involving The User (2)

3) Create prototypes

• It's hard to comment on something that doesn't yet exist



• Users are good at giving feedback for something that is even partially built

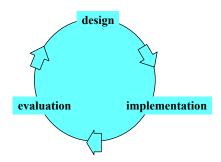


Beavis and Butthead are the intellectual property of Paramount Pictures and the MTV Television Network

Methods For Involving The User (3)

3) Create prototypes (continued)

• Get input at all design stages All designs subject to revision



Iomas Tom

What You Now Know

User centered design

• The design is based upon a user's real needs, tasks, and work context

Participatory design

• It brings the end-user in as a first class citizen into the design process

James Tan

