Usability evaluation if wrongfully applied

- In early design stifle innovation by quashing (valuable) ideas promote (poor) ideas for the wrong reason

In science

- lead to weak science

In cultural appropriation - ignore how a design would be used in everyday practice

The Solution - Methodology 101

the choice of evaluation methodology - if any must arise and be appropriate for the actual problem, research question or product under consideration

Changing how you think

- Usability evaluation
- CHI trends
- Theory Early design
- Science
- Cultural appropriation

Usability Evaluation Methods

Most common (research):

- controlled user studies
- laboratory-based user observations

Less common

- inspection
- contextual interviews
- field studies / ethnographic
- data mining
- analytic/theory
- ...



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Discovery vs Invention (Scott Hudson UIST '07)

Discovery

- uncover facts
- detailed evaluation

Understand what is

Discovery vs Invention (Scott Hudson UIST '07)

Discovery

- uncover facts
- detailed evaluation

Invention

- create new things refine invention

Understand what is

Influence what will be

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3 - Course Introduction



Unimplemented and untested design. Microfilm is impractical. The work is premature and untested.

Resubmit after you build and evaluate this design.











4 - Course Introduction





Research process

Typical usability tests – show technique is better than existing ones

Existence proof: one example of success

Research process

- Risky hypothesis testing try to disprove hypothesis the more you can't, the more likely it holds

What to do:

- test limitations / boundary conditions
 incorporate ecology of use
 replication





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6 - Course Introduction



Good Fit of Method to Design

The choice of evaluation methodology - if any – must arise and be appropriate for the actual problem or research question under consideration

argumentation design critiques design competition visions inventions prediction reflection design rationales

field studies cultural probes extreme uses requirements analysis contextual inquiries ethnographies eat your own dogfood We decide what is good research and practice





7 - Course Introduction