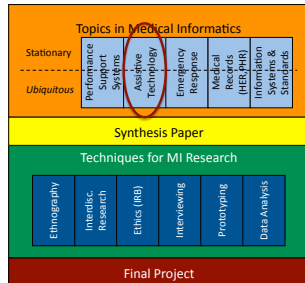


Assistive Technologies:
For the Well
Class 8

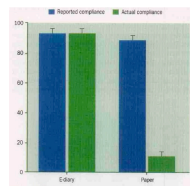
Agenda
3:00-3:05 Announcements
3:05-3:15 Quiz
3:15-3:40 Presentation
3:40-3:50 Discussion

Quiz
• What is an assistive technology? Does the target population affect the definition? Why or why not?
• What have you learned about assistive technologies in terms of design and methods for evaluation?

Where are we?



You can develop it... but will they use it?



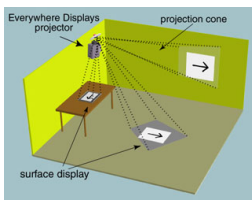
*Subjects falsified 79% of paper diary cards!
...but e-diary has reminder system...*

Does compliance mean adoption?

How to choose suitable
HW/SW for AT?



How to choose suitable
HW/SW for AT?



Cludio Pinheiro - IBM Research

What should we consider when
selecting HW/SW for AT?

What should we consider when selecting HW/SW for AT?

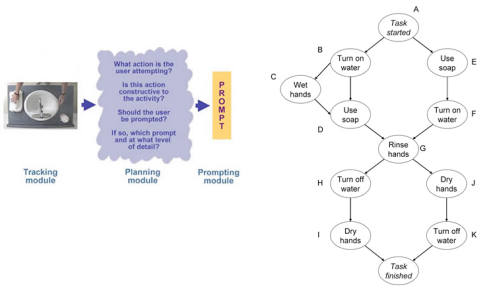
1. Environment
2. Needs and Constraints
3. Abilities
4. Mobility? Stand alone?

Context-aware AT: *Everywhere*



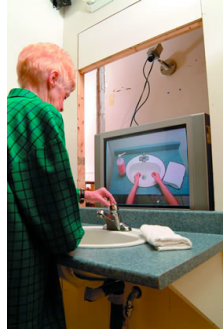
Alex Mihalidis, <http://www.oi.utoronto.ca/atsd/index.htm>

Context-aware AT System



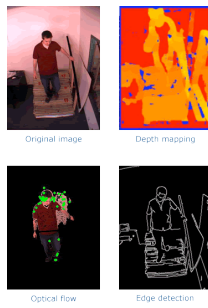
Alex Mihalidis, <http://www.oi.utoronto.ca/atsd/index.htm>

Context-aware AT



Alex Mihailidis, <http://www.ot.utoronto.ca/atsd/index.htm>

Context-aware AT: At your aid



Alex Mihailidis, <http://www.ot.utoronto.ca/atsd/index.htm>

Context-aware AT: Detecting where you are...



Alex Mihailidis, <http://www.ot.utoronto.ca/atsd/index.htm>

Think of Metrics		
Davies	Curtis	Lin

Design Study		
Davies	Curtis	Lin

Design Study: Nice to See		

Design Study:
Things that make me cringe

Evaluating the Data		
Davies	Curtis	Lin

Evaluating the Data

Sharing the data
with the community

Sharing the data
with the community

- Design oriented? Methods oriented?
 - CHI, Interact, Pervasive HC
- Technology oriented?
 - UbiComp, Pervasive, PerCom
- Healthcare Intervention Oriented?
 - JAMIA, Assistive Technologies, Nursing Informatics

What have we learned from ATs?

- Design
- Learn from current practices
 - HW selection matters
- Methods
- Small n
 - Qualitative in nature
- Adoption
- Slow and iterative
 - Work with all stake holders

What is an assistive technology?

Assistive technologies describes technological devices or software that have been designed to assist people with disabilities (Dawe 2006).

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Assistive systems pair human computer interaction techniques and technology to enhance the health and abilities for people with various special needs.
