Ubiquitous, Tangible, and Wearable Computing Course summary

> CSEP 510 Lecture 10, March 11, 2004 Richard Anderson

Homework

- ${\scriptstyle \rm n}\,$ How much time is needed to outline a lecture?
- ⁿ Were you able to determine how long your partner spent on each outline?





Classroom exercise

ⁿ How many motors are in your car?



































1. History

- $\ensuremath{\,^{\rm n}}$ The history of the field goes back a long time
- Many HCI issues are similar, in spite of dramatic changes in cost / speed of computers



3. Modeling human behavior

- $_{\scriptscriptstyle \rm n}$ How the computer views the user
- ⁿ Simplification of processes that are explanatory and predictive
- $_{\rm n}$ Human information processor
- $_{\rm n}\,$ Fitts' Law
 - ⁿ Exponential targeting

4. Studying users performing tasks

- ⁿ Modeling user actions
 - Example mail handling as moving information to folders
 Understand functionality of applications
 - Example text entry on mobile
 - ⁿ Predict performance of different schemes





Domain studies

- n Latter lectures looked at particular domains
 - $_{\scriptscriptstyle \rm n}$ Domain specific results
 - $_{\rm n}\,$ Patterns of study

6. Pen Computing

- $_{\rm n}\,$ Device level interaction
- $_{n}$ Stylus input problem
- n Tablet PC
- n Importance of the details



- ⁿ Ink based applications
 - Dependence on technology and scale
 Difference between PDA and wall sized display
- $_{\rm n}$ Importance of domain / use case
 - $_{\scriptscriptstyle \rm n}$ Persistence of white board
 - $\ensuremath{\tt n}$ Distributed note taking
 - n Collaborative note taking





