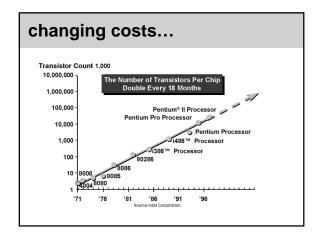


why hci matters

- interaction is on the rise
 - 1960s
 - computers become fast enough to support interaction
 - 1970s
 - the development of the GUI
 - 1980s
 - GUIs go mainstream
 - 1990s
 - the emergence of networked interaction
 - 2000 and on
 - virtual reality, augmented reality, mobile devices, ubiquitous computing

why hci matters

- computer systems are increasingly interactive
 - as computers become faster, activities move from "batch" to "interactive"
 - e.g. information visualization
 - e.g. distributed information networks (Napster?)
 - the interesting uses of technology are those that people experience directly
- interactive devices are increasingly computational

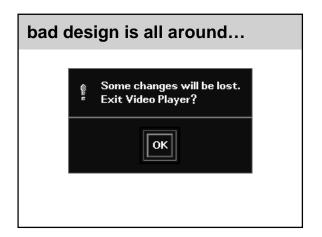


computers in devices

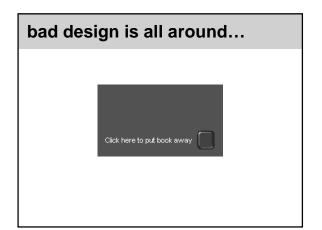
- computation costs only a few dollars
- computer systems replace analog
 - telephones, audio players, video players, ovens, door knobs!
- "interaction" is broadening
 - more than traditional screens and GUIs
 - specialised and embedded devices
 - need to understand how interaction works

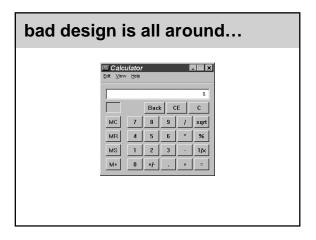
bad design is all around...

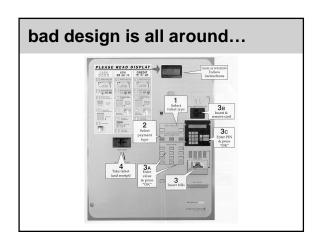
- why do we believe this is difficult?
- because we get it wrong so often!











understand the fundamentals

theory
mental models, human factors, etc
process
investigation, prototyping, design, evaluation

learn how to apply them

project focus
the lifecycle
design, prototyping, development, evaluation

this is a lot to cover in 10 weeks!

warnings

- there's going to be a lot of ground to cover
 - 105 is unusual
 - project class with no earlier theory class
 - we have to do it all
 - do the readings before class!
- you don't get graded on what doesn't work
 - coding will be in Java
 - we won't be doing remedial Java coaching
 - JFC/Swing for UI
 - we'll cover this in lectures

administrivia

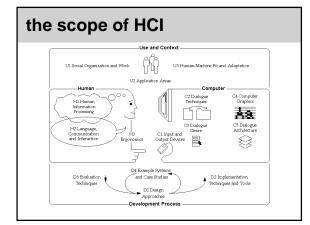
- class times
 - lectures: Tu, Th: 12:30-1:50, PSCB
 - discussion: scheduled as needed
 - regular meetings with teams
- class web page
 - http://www.ics.uci.edu/~jpd/ics105
 - lecture notes, project outlines, syllabus, timetable

personnel

- instructor
 - Paul Dourish <jpd@ics.uci.edu>
 - office ICS2 206
 - office hours by appointment
 - I'm generally available, but email me to make sure
- teaching assistants
 - Shreyas Doshi <doshi@acm.org>

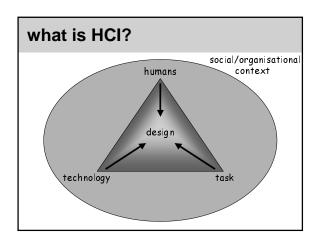
evaluation

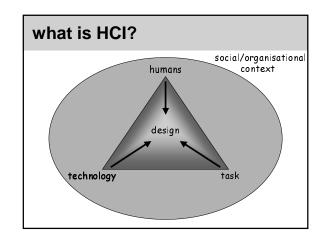
- breakdown
 - 25% midterm
 - 75% project
- project grading
 - final system
 - intermediate deliverables
 - reports on prototyping and evaluation

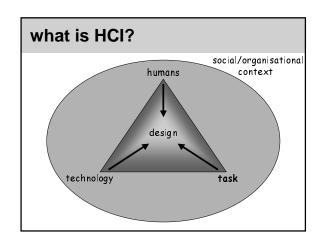


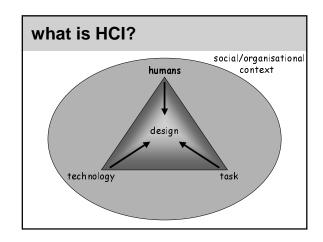
interface vs interaction

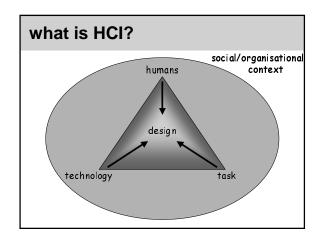
- more than just user interfaces
 - buttons and menus don't make systems usable
- · not interfaces but interaction
 - the whole context of using a computer system
 - \bullet the sequence of actions needed to carry out a task
 - fitting the system into the setting in which it's needed

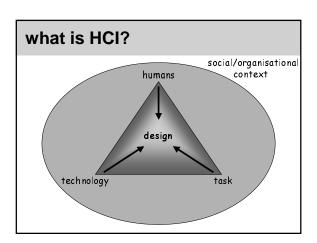






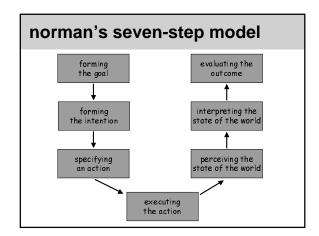


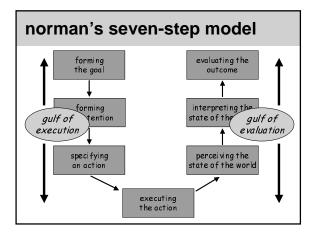


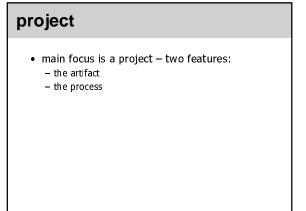


the challenge of hci

- · understanding the technology
 - what are the opportunities? the constraints?
- understanding the task domain
 - what do people actually need to do?
 - how do interactive systems feature as part of work?
- understanding human action
 - what does it take for someone to use the system?







teams

- · teams of four
 - team coordinator
 - design coordinator
 - implementation coordinator
 - testing coordinator
- coordinator role...
 - NOT leader!
 - NOT flunky!

topics

- see the web page for some suggestions
 - mp3 jukebox manager
 - digital photo archive
 - full text indexing
 - peer to peer architecture
- suggestions are welcome
 - write it up and get it to me soon
 - teams and projects are due end of next week
 - I must have approved the project by Wednesday

timetable

- phase 1: determine teams and projects
 - end of week two
- phase 2: design
 - the following two weeks
- phase 3: lo-fi prototyping
 - we'll coordinate these at the end of week four
- phase 4: redesign and implementation
 - following month
- phase 5: evaluation
 - week nine

next time

- history and general overview of HCI
 - read ch1, ch2 (43-50)