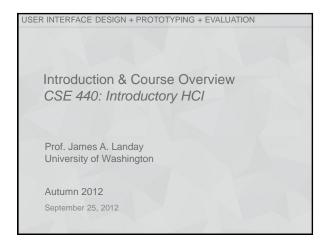
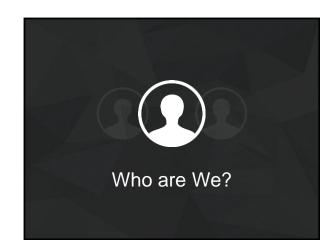


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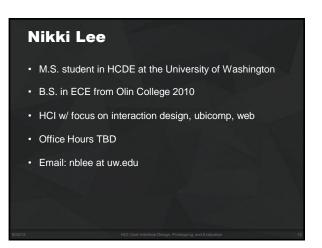


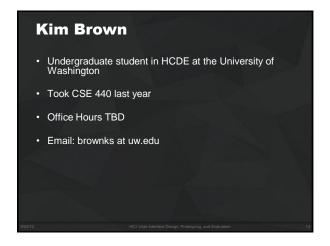






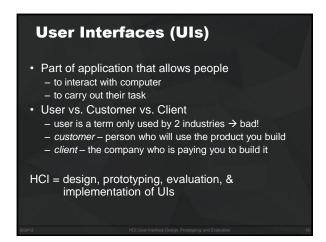
Professor in CSE at the University of Washington formerly professor in EECS at UC Berkeley spent 3 years as Director of Intel Labs Seattle just finished 2.5 year sabbatical at Microsoft Research Asia Ph.D. in CS from Carnegie Mellon '96 HCI w/ focus on informal input (pens, speech, etc.), web design (tools, patterns, etc.), & Ubiquitous Computing (Ubicomp) Founded NetRaker, leader in web experience management (later sold to Keynote) Co-authored *The Design of Sites* with Doug van Duyne & Jason Hong Office Hours: Wed, 3-4 PM, 642 CSE & Mon 11 AM-12, Online Email: landay at cs.washington.edu

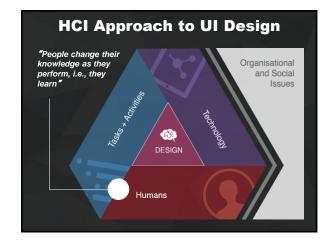


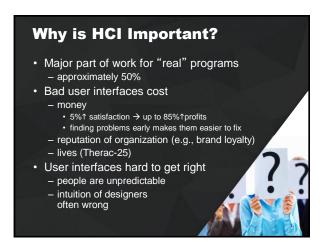


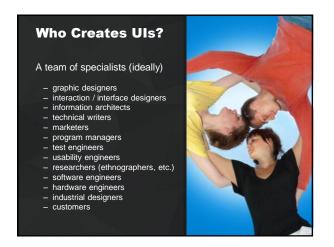


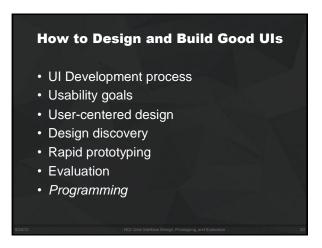


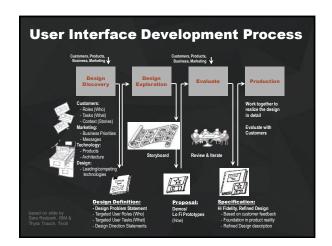


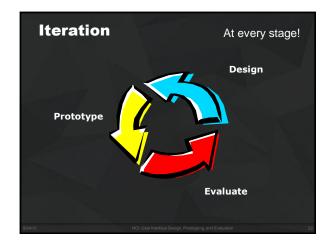


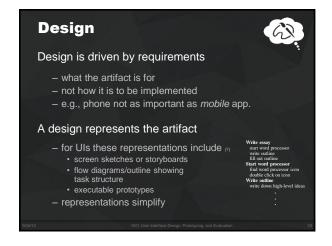


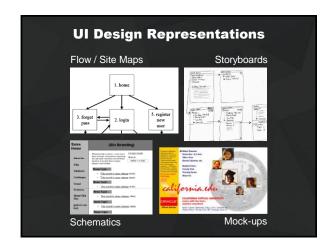






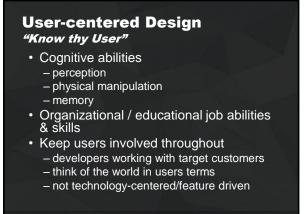


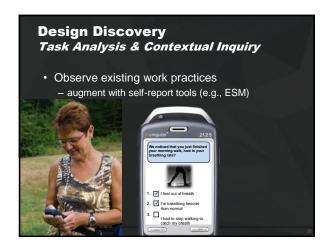




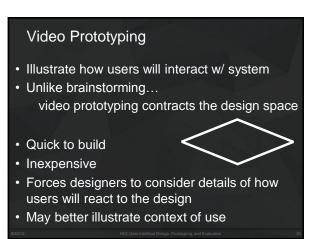


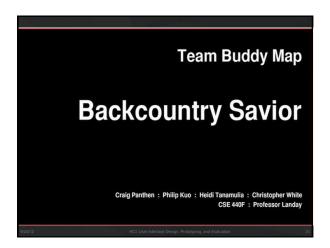




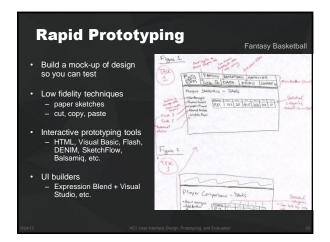


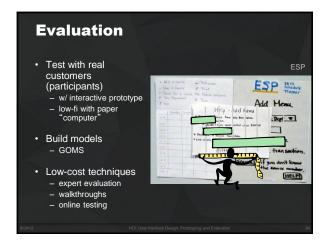
Design Discovery Task Analysis & Contextual Inquiry Observe existing work practices - augment with self-report tools (e.g., ESM) Create examples & scenarios of actual use Discover tasks to design for Answer key questions about tasks & users "Try-out" new ideas before building software



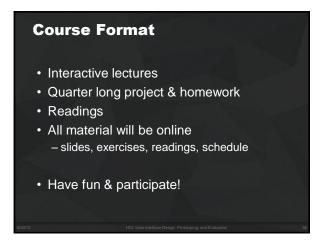








Goals of the Course 1) Learn to design, prototype, & evaluate UIs - the needs & tasks of prospective customers - cognitive/perceptual constraints that affect design - technology & techniques used to prototype UIs - techniques for evaluating a user interface design - importance of iterative design for usability - how to work together on a team project - communicate your results to a group • key to your future success 2) Understand where technology is going & what UIs of the future might be like



How HCI Fits into CS Curriculum Most courses for learning technology - compilers, operating systems, databases, etc. • HCI concerned w/ design & evaluation - technology as a tool to evaluate via prototyping - skills will become very important upon graduation · complex systems, large teams · don't look for large immediate impact in other CS courses

Project Proposal (due Thursday) · Each of you will propose an interface idea - fixing something you don't like or a new idea

- Groups
 - 4-5 students to a group
 - work with students w/ different skills/interests
 - groups meet with teaching staff every 2 weeks
- Cumulative
 - apply several HCI methods to a single interface

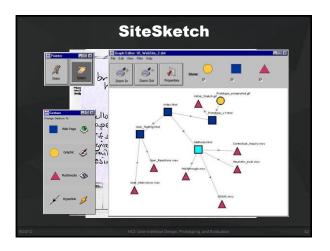
Project Process Overview

- Project proposal (individual) - due Thursday (September 27)
- Break-up into groups the following week
- Project contextual inquiry
- Project task analysis & sketches - based on CI & field work
- In class presentations & critiques
- · Design sketching & video prototyping - i.e., rough proposals that can & will change
- · Low fidelity prototyping & user testing
- · In class presentations & critiques

Project Process Overview

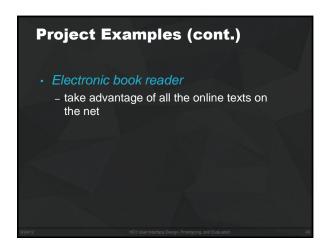
- · Rapid prototype using tools
- Heuristic Evaluation
- Final presentations & project fair with industry guests

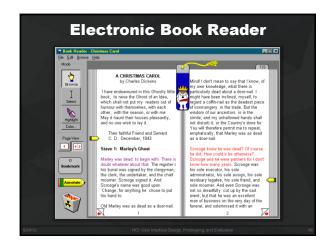
Project Examples - web page design - sketch-based







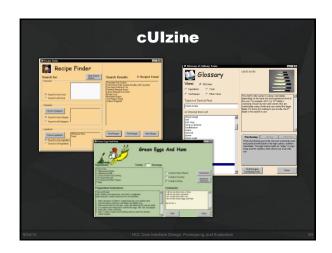


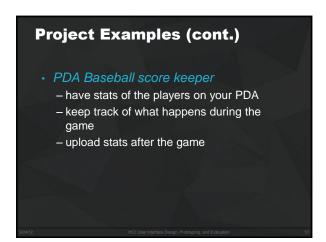




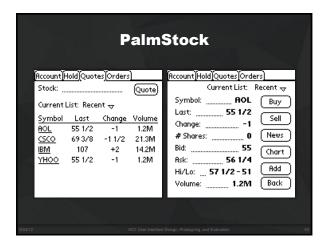














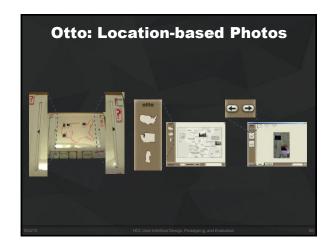


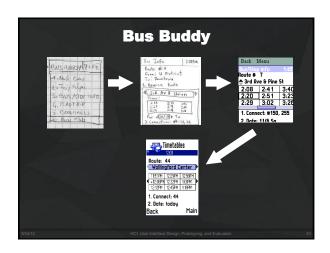


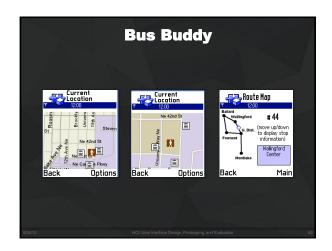


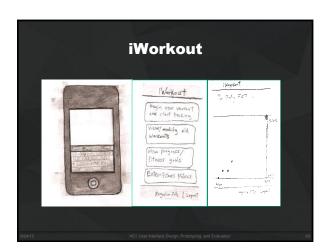


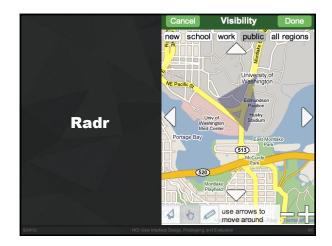








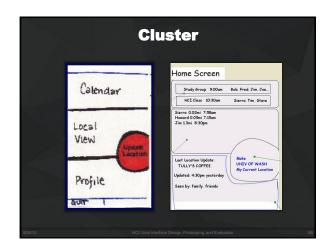


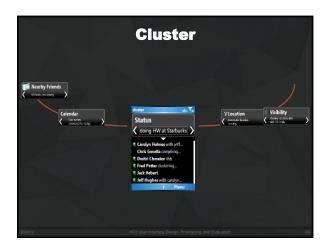












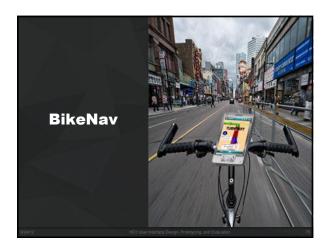


















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Books

- The Design of Sites by van Duyne, Landay, & Hong

 online copies of the 4-5 chapters we will use
- We will also hand out other papers, give you web links, & refer to lecture slides
- · Recommended textbooks
 - Designing the User Interface: Strategies for Effective Human-Computer Interaction by Shneiderman & Plaisant, 5th edition (2009)
 - order from Amazon.com (link off class web page)
- · Other recommended books on web page

Assignments

- Individual
 - 3 written + in-class studio + one talk each
- Group
 - 6 written assignments
 - 4 presentation/demos with the write-ups + poster
 - all group work handed in on Web
 - group web site & blog

HCP Hear Interface Design Prototoping and Evaluation

Grading

- · A combination of
 - midterm (20%)
 - individual assignments & presentation (15%)
 - group project (60%)
 - demos/presentations/poster (group component)
 - · project write-ups and exercises
 - ratings given by other team members & class
 - in class participation (5%)
- No curve
- No final (though late midterm)

Tidbits

- Late Policy
 - no lates on group assignments
 - individual assignments lose one letter grade/day
- Cheating policy
 - will get you an failing grade in the course

Administrivia

- Roll
- Waiting list for those who want to add
 - sort out after 1st week

Summary

- HCl an important part of most software produced today
- Getting the interface right is hard, but...
- Solution in *Iterative Design* including repeated cycles of
 - Design
 - Prototyping
 - Evaluation

HCI: User Interface Design, Prototyging, and Evaluation