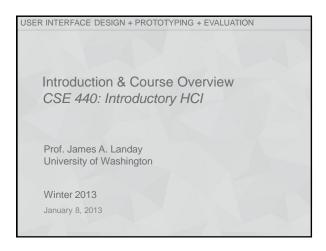
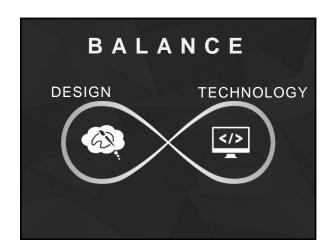
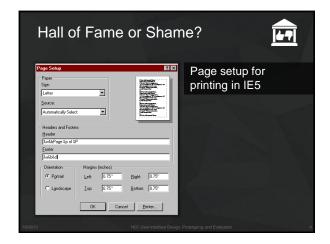
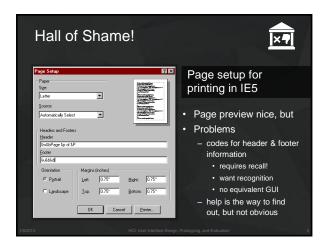
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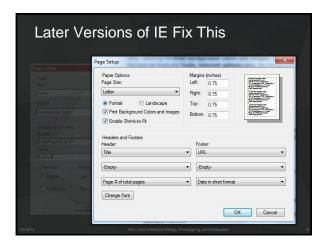












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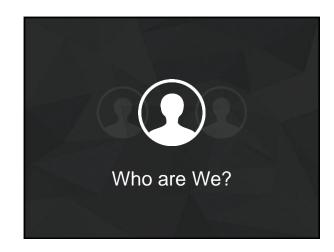




Introduction & Course Overview
CSE 440: Introductory HCI

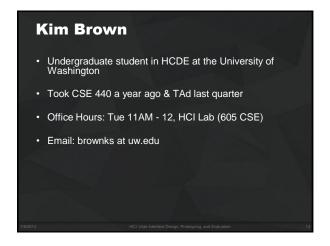
Prof. James A. Landay
University of Washington

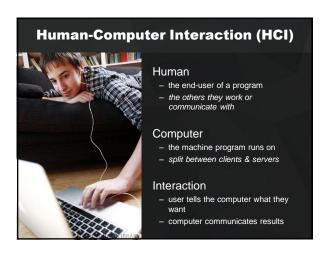
Winter 2013
January 8, 2013



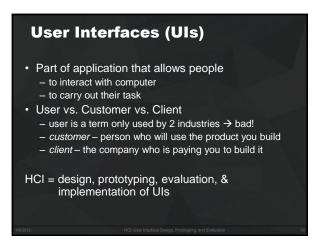
Professor in CSE at the University of Washington formerly professor in EECS at UC Berkeley spent 3 years as Director of Intel Labs Seattle Dec 2011 finished 2.5 year sabbatical at Microsoft Research Asia Ph.D. in CS from Carnegie Mellon '96 HCl w/ focus on informal input (pens, speech, etc.), web design (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 Send me your IM address to my email Email: landay at cs.washington.edu

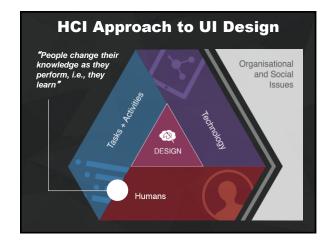
Nikki Lee • M.S. student in HCDE at the University of Washington • B.S. in ECE from Olin College 2010 • HCI w/ focus on interaction design, ubicomp, web • TAd CSE 440 x 2 and CSE 441 • Office Hours: Tue 1:30 - 2:30 PM, HCI Lab (605 CSE) • Email: nblee at uw.edu

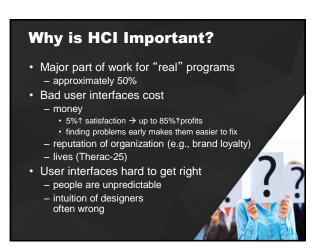


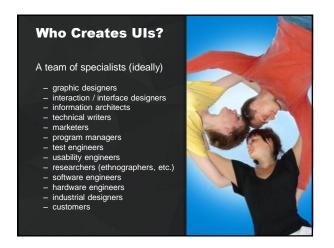




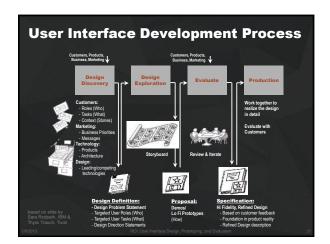


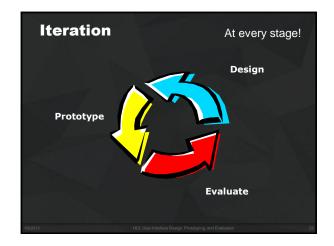


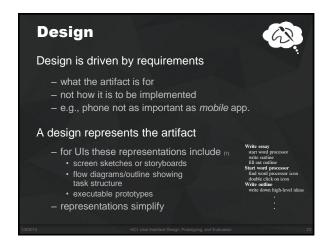


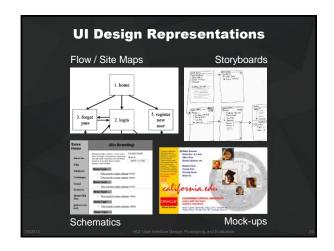


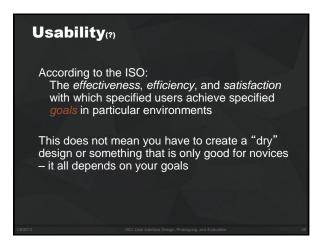


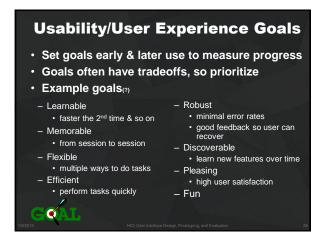








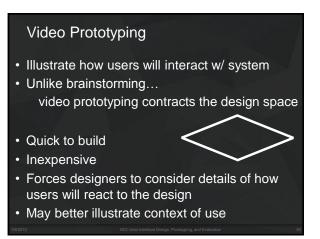




User-centered Design "Know thy User" Cognitive abilities perception physical manipulation memory Organizational / educational job abilities k skills Keep users involved throughout developers working with target customers think of the world in users terms not technology-centered/feature driven

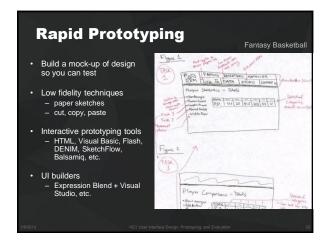


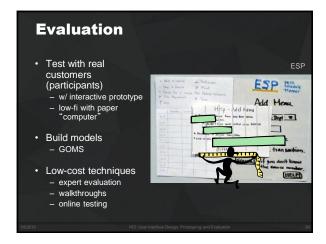
Design Discovery Task Analysis & Contextual Inquiry Observe existing work practices - augment with self-report tools (e.g., ESM) Create examples & scenarios of actual use Discover tasks to design for Answer key questions about tasks & users "Try-out" new ideas before building software



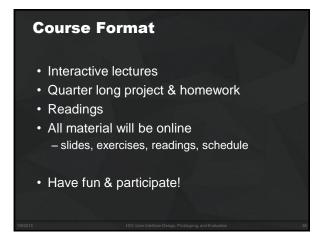












How HCI Fits into CS Curriculum Most courses for learning technology - compilers, operating systems, databases, etc. • HCI concerned w/ design & evaluation - technology as a tool to evaluate via prototyping - skills will become very important upon graduation · complex systems, large teams · don't look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

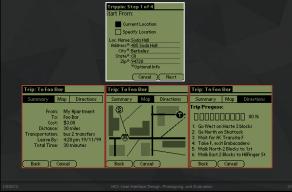
Project Process Overview

- Project proposal (individual) - due Thursday (January 10)
- · Break-up into groups the following week
- Project contextual inquiry & sketches
- · Project task analysis & sketches - based on CI & field work
- In class presentations & critiques
- · Design sketching & concept videos - i.e., rough proposals that can & will change
- · Low fidelity prototyping & user testing
- · In class presentations & critiques

Project Process Overview

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

Trippin'

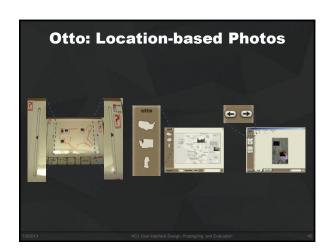


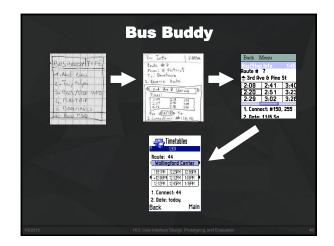


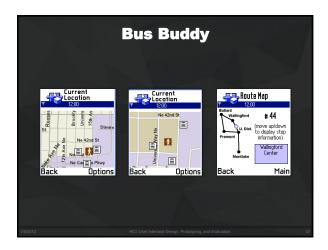
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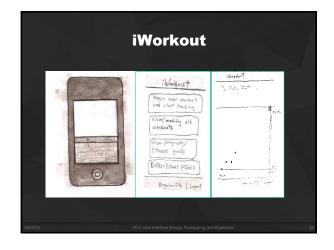




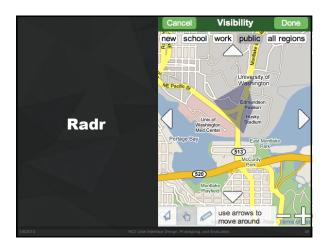








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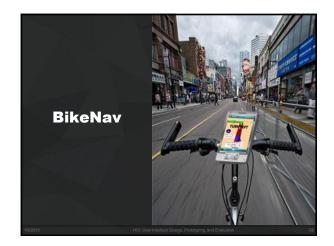












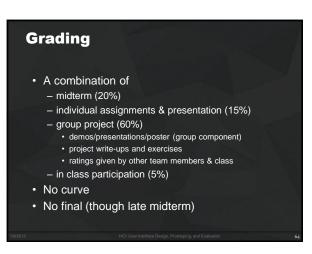






Books The Design of Sites by van Duyne, Landay, & Hong – online copies of the 4-5 chapters we will use We will also hand out other papers, give you web links, & refer to lecture slides Recommended textbooks – Designing the User Interface: Strategies for Effective Human-Computer Interaction by Shneiderman & 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 handed in via Collect It dropbox Group 6 written assignments 3 presentation/demos with the write-ups + poster all group work handed in on Web group web site & blog



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

• 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

