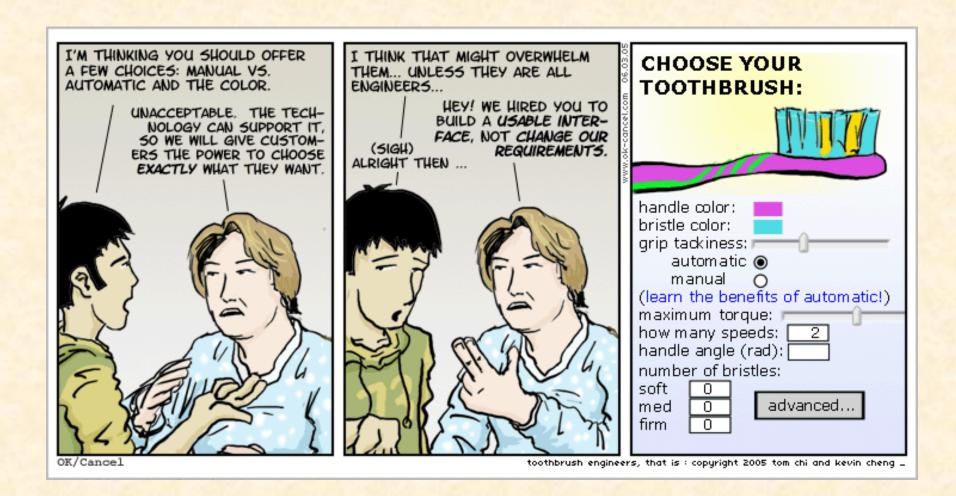
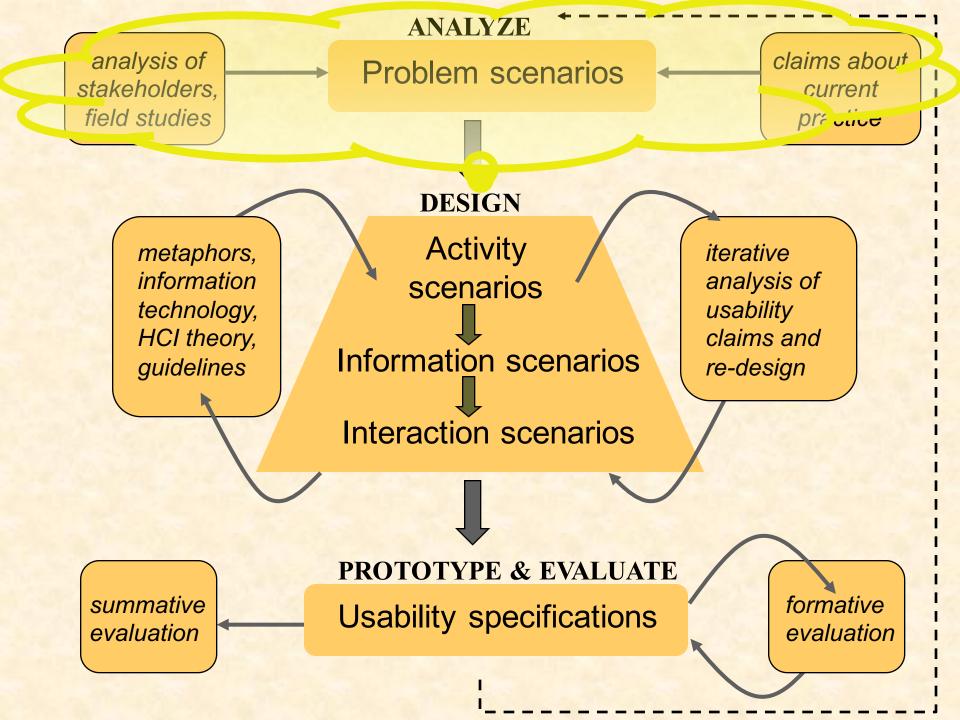
Scenario-Based Design: Analyzing Requirements

CS185 Human Computer Interaction (May 15th 2018)

Thanks to Chris North of Virginia Tech for the Original Slides.



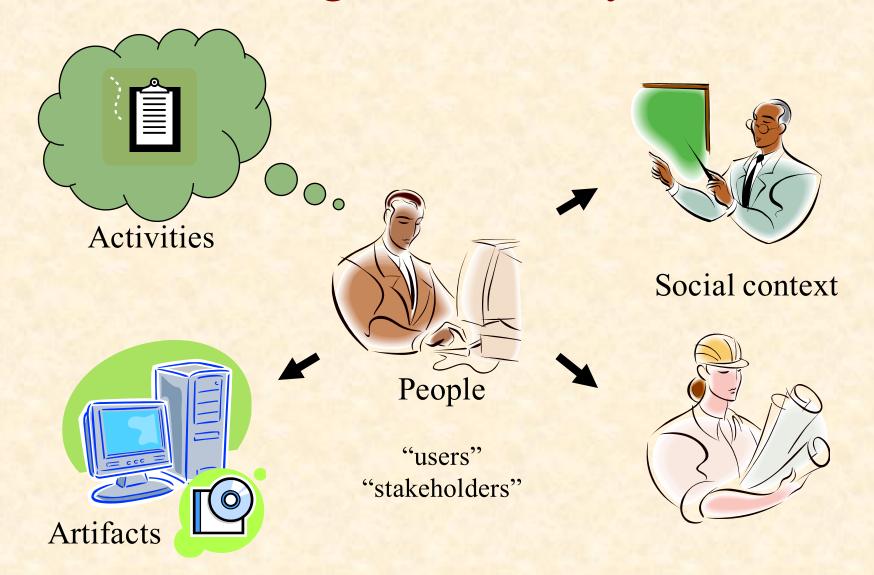


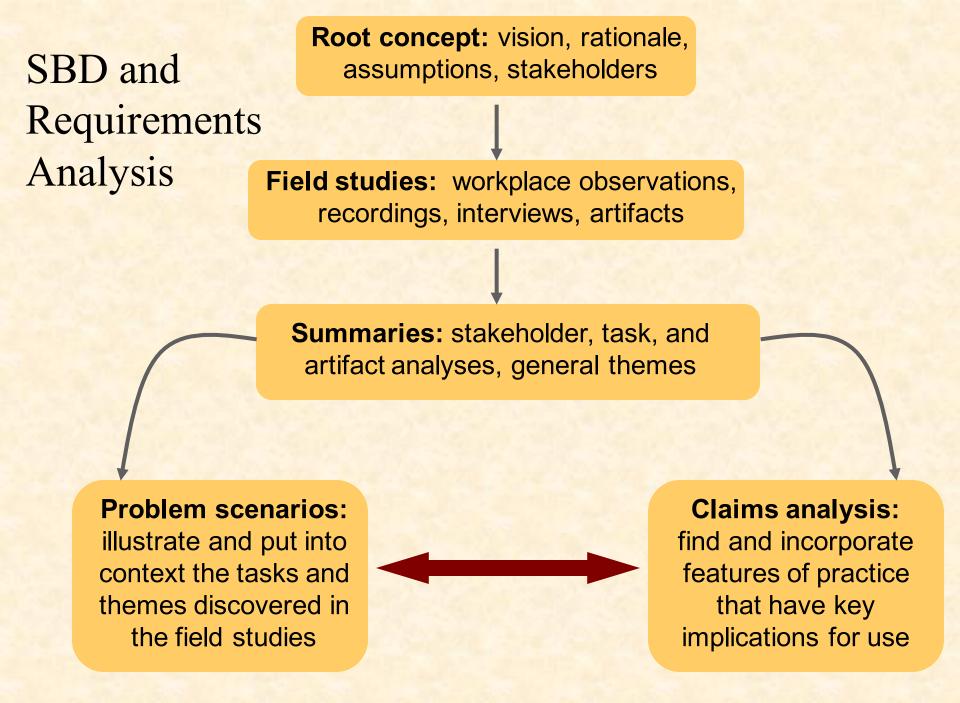
Analyzing Requirements

• Goal: understand users' <u>current</u> activities well enough to reason about technology-based enhancements

• To meet real needs, you must identify the (hidden!) problems & desires

Things to Identify





Field Studies

Observation

- Ethnographic method: watch what they do in real world
- Passive vs Active:
 - Contextual inquiry (ask during)
 - Participatory analysis (ask after, with video...)

Interviews

- Structured or informal
- Explicit vs Tacit knowledge

Questionnaires

- Survey (demographics, skills, attitudes, utility, ...)
- Quantitative, statistical results

	Observation	Interview	Questionnaire
Goal			
Method			
# Users			
Tools			
Data			
Depth			
Effort			
E.g.			

Some suggestions on how to see

- ✓ Leave your categories at home...
 - ✓ Forgetting is seeing things anew.
- ✓ Listen
- ✓ Talk
- ✓ Reflect on what you've seen and heard
 - ✓ Does it make sense?
 - ✓ Can you tell a complete story?

Representations of Results

How to represent the problem?

- Scenarios
- User profiles
- Video, pictures, storyboard
- HTA: hierarchical task analysis
- •

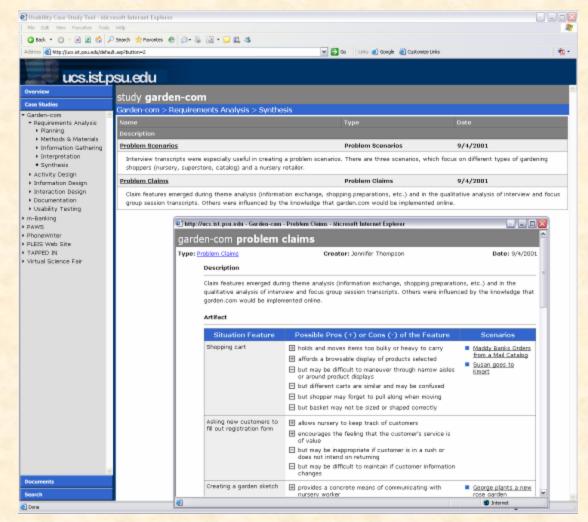
Example: Grocery Shopping

- Users, artifacts, activities, social context
- Claims
- Problem Scenarios
- HTA



Usability Case Library

http://ucs.ist.psu.edu/



Project part 2

- Sample dataset
- Goal: Understand how analysts analyze it
- Users
- Problem scenarios, claims

• Thurs: intell exercise

Project

- ✓ Part 1, due Thurs: teams & topics
 - Root Concept
- ✓ Part 2, due in 2 weeks: Requirements Analysis
- ✓ Your mission: find out about your users
 - Who are they?
 - What matters to them?
 - What are they trying to do?
 - What is unexpected?
 - How do they now get to the information your project will present to them?
 - What is the scenario of their current work practice?
 - Can you imagine alternate scenarios?
- ✓ Start NOW!