Human-Computer Interaction	
Computer Science Tripos Part II Alan Blackwell	
Add a button to turn the screen yellow.	

Why did you want the screen to be yellow?
I want it to look like gold.
Connotations relate not to a word's actual meaning, or denotation, but rather to the ideas or qualities that are implied by that word. A good example is the word "gold." The denotation of gold is a malleable, ductile, yellow element. The connotations, however, are the ideas associated with gold, such as greed, luxury, or avarice.

# How to design buttons and screens?

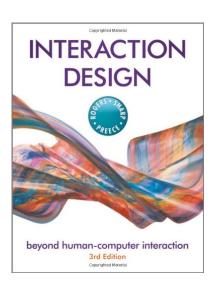
- Human-Computer Interaction (HCI)
- Interaction Design
- User Experience Design (UX)
- Interactive Systems Design
- Cognitive Ergonomics
- Man-Machine Interface (MMI)
- User Interface Design (UI)
- Human Factors
- Cognitive Task Design
- Information Architecture (IA)
- Software Product Design
- Usability Engineering
- User-Centred Design (UCD)

#### 2013 votes on course objectives

- Learn interesting stuff about humans
- Prepare for professional life
- See cool toys 9
- Find an alternative perspective on CS 9
- Take an opportunity to be more creative 6
- Get easy marks in final exam

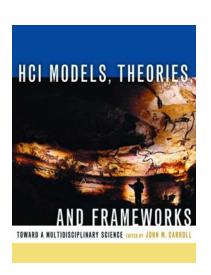
#### **Textbooks**

- Sharp, Rogers & Preece
   Interaction Design: Beyond
   human-computer
   interaction 3rd Edition 2011
  - Practical design methods, at forefront of current practice



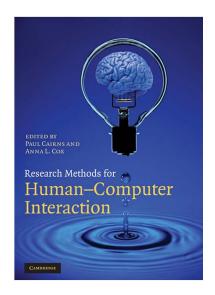
# **Textbooks**

- Carroll (Ed.) HCI Models, Theories and Frameworks: Toward a multidisciplinary science 2003
  - Best introduction to research trends and advanced methods
  - (but out of print ⊗)



#### **Textbooks**

- Cairns and Cox (eds)
   Research methods for
   human-computer
   interaction 2008
  - Advanced techniques, academic context



# Supervision exercises

- Preparation/evaluation for Part II projects
  - Selecting research and evaluation methods, within strict constraints (much as for a professional project).
- Experimental comparison of user interfaces
  - Study changes in learning, efficiency or accuracy that result from modifications to a user interface.
- Cognitive Dimensions in Comp Sci research
  - Identify what makes advanced programming languages useful to real programmers.