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)

Textbooks

- Sharp, Rogers & Preece
  - 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.

Final exam

• We will decide in the final lecture how the material we have covered should be assessed.

• This may resemble previous years
  – aimed to assess knowledge of range of models and techniques available, the ways in which they differ, and applicability to professional situations.

• But not if we decide not!

• Note: dissertation can also gain marks from HCI
  – preparation + evaluation sections > 20% exam question
  – for interactive systems, consider user research & testing