CS 61A   Lecture Notes   Second Half of Week 8

Topic: Review

Reading: No new reading; study for the final.

• Go over first-day handout about abstraction; show how each topic involves an abstraction barrier and say what's above and what's below the line.

• Go over the big ideas within each programming paradigm:

Functional Programming:
    composition of functions
    first-class functions (function as object)
    higher-order functions
    recursion
    delayed (lazy) evaluation
    (vocabulary: parameter, argument, scope, iterative process)

Object-Oriented Programming:
    actors
    message passing
    local state
    inheritance
    identity vs. equal value
    (vocabulary: dispatch procedure, delegation, mutation)

Logic Programming:
    focus on ends, not means
    multiple solutions
    running a program backwards
    (vocabulary: pattern matching, unification)

• Review where 61A fits into the curriculum. (See the CS abstraction hierarchy in week 1.)

Please, please, don't forget the ideas of 61A just because you're not programming in Scheme!