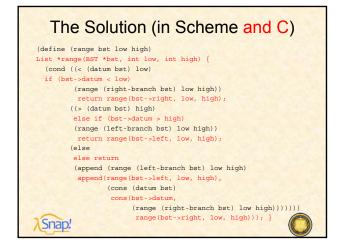


Paradigms merging?

- Some programming language specialists want us to stop talking about "paradigms" (e.g. functional, OOP, declarative) because modern languages are starting to support all at once.
- So, for example, as of 2013, even Java (the last holdout) has anonymous procedures (λ) — even though "real" programmers still think Lisp is impractical,
 Slow, ivory-tower, etc.

Big Ideas Really Matter • 61B midterm problem: - Write a function that takes three inputs: a binary search tree, a lower bound, and an upper bound, and returns a list of the tree elements between those bounds, taking advantage of the BST constraint to avoid looking at upper bound = 20 upper bound = 60 result = (23, 50, 54)

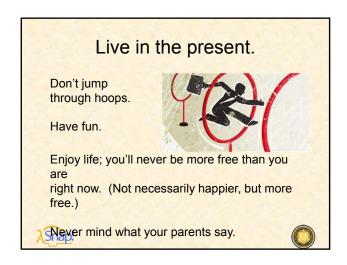


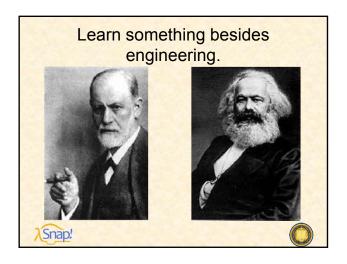
About money

- You are going to be obscenely rich no matter what!
 - 93% of US adults earn less than \$100,000/year
 - (which is about what I make)
 - 78% of the world's people get less than \$3500/year
 - You are going to get a good job.
 - You are going to be able to send your kids to private school. And buy Porsche.



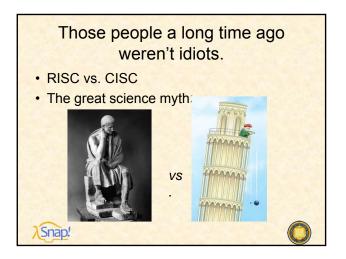












And speaking of Aristotle...

- Ethics isn't about *dilemmas*; it's about *virtues*.
- · Dilemmas:
 - You're in a boat with your parent and your child. The boat sinks. You're the only swimmer and you only have time to save one of the others. Which?
 - You're up against a project deadline and at the last minute you discover a bug. Your boss wants to ship the product anyway. What do you do?
- Virtues: courage, honesty, charity, stemperance...



