



Review

David E. Culler

CS8 – Computational Structures in Data Science

<http://inst.eecs.berkeley.edu/~cs88>

Lecture 5

Feb 29, 2016



Computational Concepts Toolbox

- **Data type: values, literals, operations,**
- **Expressions, Call expression**
- **Variables**
- **Assignment Statement**
- **Sequences: tuple, list**
- **Data structures**
- **Tuple assignment**
- **Call Expressions**
- **Function Definition Statement**
- **Conditional Statement**
- **Iteration: list comp, for, while**
- **Higher Order Functions**
 - Functions as Values
 - Functions with functions as argument
 - Assignment of function values
- **Higher order function patterns**
 - Map, Filter, Reduce
- **Function factories – create and return functions**
- **Recursion**
 - Linear, Tail, Tree





Administrative Issues

- **Cuke Tourney => leaderboard**
- **Midterm Friday 3/4 5-7 pm in 405 Soda**
 - 8.5 x 11 Cheat sheet (yours)
 - Class study key (we will provide one)
- **Lab 04 is review**
 - due Wed 11:59 so we can give you solutions Thursday morning (vote)
- **HW 04 is practice test => Thurs**
 - More review
 - Out Tues morning - do lab first (vote)
- **Review Session Wed 6-8, 405 Soda**



Review Notebook
