

CS 182

Sections 101 & 102

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Slides created by Eva Mok &
Joe Makin
Thanks!

Adminstrivia

- Course web page:

<http://inst.eecs.berkeley.edu/~cs182>

- Myself:

- Office Hours: Wednesday 11-12, Thursday 4-5
- Email: lbarrett@eecs.berkeley.edu
- Important: Put [CS182] in the subject or your email may end up in my junk folder
- I will answer questions on the bSpace forum; you can email me, but that's where the answer will go

Course Grading

- 7 written assignments - 5% each (lowest is dropped)
- 2 coding assignments - 10% each (Java)
- Final paper - 10%
- Quiz - 5%
- Midterm - 15%
- Final - 15%
- Class participation - 5%

- 4 free late days

Computational / Non-Computational

- CS 182 - Computational Only
- Cog Sci 110 / Ling 109 - Comp/Non-Comp
- Differences:
 - Computational students do the two coding assignments.
 - Non-Computational students do two comparable written assignments (involving more hand calculations)
- You can't switch from Non-Comp to Comp after the first computational assignment!

Cheating Policy

Cheat and expect to hear from us.

Discussing ideas is okay.

Sharing code and writeups is not.

Your Task This Week

- Do the readings
(they will give you a good idea about the course)
- Pick up an account form in class on Thursday
- Turn in Assignment 0 on Thursday

My Goal

- Section has 3 purposes
 - Help you see the big picture
 - We'll be working on many intensive topics, and it's easy to lose track
 - Help you with the topics that are new to you
 - Everyone will find something new in this class
 - Present another explanation
 - It often helps to hear the same thing from several viewpoints

The Big Picture

- The brain must be understood on many levels
- Some are understood
 - In particular, highest layers and lowest layers are best-studied
 - e.g. psychology and neuroscience
- What happens in between?
 - We know (more or less) how 2 neurons interact
 - What about 10? 100? 10000?

We Don't Have the Answers!

- There are many levels we don't understand
- So we examine constraints on how it works
 - Neurons are slow
 - Certain brain regions do certain tasks
 - etc.
- We also examine possible (crude) ways it works
 - Computational models
 - etc.

Any Questions?



Now get up

- Walk across the room and find someone you DON'T know
- Find 5 things you guys have in common
- The more creative the better
- LAME ideas include: school you're in, major, classes you've taken, ... you get the idea.

Merge with the group next to you

- Find 3 things in common among the 4 of you
- Come up with a group name based on what you have in common
- Write your group name on the board when you're done
 - Include your own names
- I'll take a picture, so I can learn your names