

The 61A Community

57 teaching assistants (TAs), formally known at Berkeley as GSIs or UGSIs:

- Teach lab & discussion sections
- · Hold drop-in office hours
- Lots of other stuff: develop assignments, grade exams, etc.

50+ mentors:

- Teach mentoring sections
- Hold drop-in office hours
- Lots of other stuff: homework parties, mastery sections, etc.

200+ academic interns help answer individual questions during lab

2,000 fellow students make CS 61A unique

Parts of the Course

Lecture: Videos posted to cs61a.org before each live lecture

Lab section: The most important part of this course (next week)

Discussion section: The most important part of this course (this week)
Staff office hours: The most important part of this course (next week)

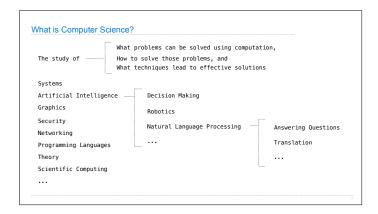
Online textbook: http://composingprograms.com

Weekly homework assignments, three exams, & four programming projects Lots of optional special events to help you complete all this work

Everything is posted to cs61a.org

Announcements

An Introduction to Computer Science



What is This Course About?

A course about managing complexity

Mastering abstraction

Programming paradigms

An introduction to programming

Full understanding of Python fundamentals

Combining multiple ideas in large projects

How computers interpret programming languages

Different types of languages: Scheme & SQL

A challenging course that will demand a lot of you

Alternatives to CS 61A

CS 10: The Beauty and Joy of Computing

Designed for students without prior experience

A programming environment created by Berkeley, now used in courses around the world and online

An introduction to fundamentals (& Python) that sets students up for success in CS 61A

Fall 2018: Dan Garcia

25 seats available

More info: http://cs10.org/fa18/









Data Science 8: Foundations of Data Science

Fundamentals of computing, statistical inference, & machine learning applied to real-world data sets

More statistics than computer science

Great programming practice for CS 61A

Listed as CS C8

This semester it's full

More info: http://data8.org/fa18



Course Policies

Course Policies

Learning

Community

Course Staff

Details...

http://cs6la.org/articles/about.html

Collaboration

Asking questions is highly encouraged

- Discuss everything with each other; learn from your fellow students!
- Some projects can be completed with a partner
- Choose a partner from your discussion section

The limits of collaboration

- -One simple rule: Don't share your code, except with your project partner
- *Copying project solutions causes people to fail the course
- *We really do catch people who violate the rules, because...
- ${\mbox{\tiny \bullet}}\mbox{ We also know how to search the web for solutions}$

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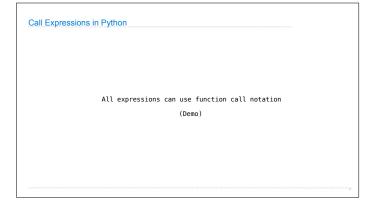
 $\ensuremath{^{\circ}}\xspace \ensuremath{\text{We}}\xspace$ use computers to check your work

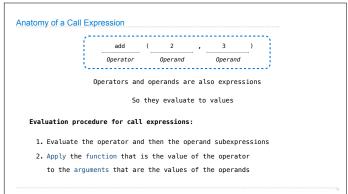
Build good habits now

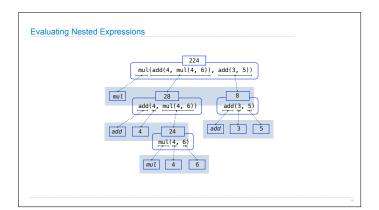
Expressions

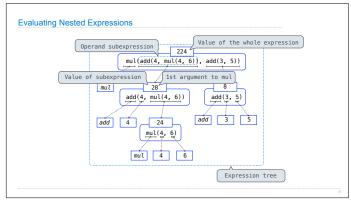
Types of expressions

An expression describes a computation and evaluates to a value









Functions, Values, Objects, Interpreters, and Data
(Demo)