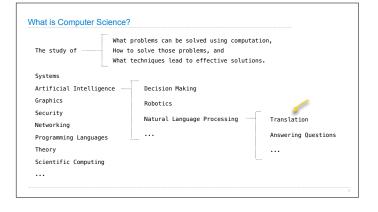


An Introduction to Computer Science



What is This Course About? A course about managing complexity Mastering abstraction Programming paradigms Not all about 0's and 1's An introduction to Python Full understanding of language fundamentals Learning through implementation How computers interpret programming languages A challenging course that will demand a lot of you

Course Policies

Alternatives to This Course

Build good habits now

CS 61AS: Self-Paced 61A

CS 10: The Beauty and Joy of Computing

Course Policies

Learning

Community

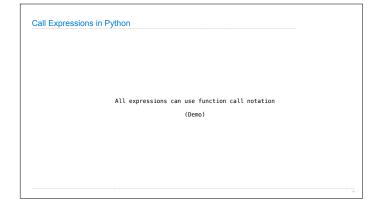
Course Staff

Details...
http://cs61a.org/about.html

Collaboration Asking questions is highly encouraged Discuss everything with each other; learn from your fellow students! Homework can be completed with a partner Projects should 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 partner Copying project solutions causes people to fail this course We really do catch people who violate the rules, because... We also know how to use computers

Expressions

Types of expressions $18+69 \\ 18+69 \\ \frac{6}{23} \\ \sin \pi \\ \log_2 1024$ $2^{100} \\ 7 \bmod 2 \\ |-1869| \\ \frac{100}{\sin \pi} \\ \frac{1}{\sqrt{3493161}} \\ \frac{1}{x\to\infty} \frac{1}{x}$



Anatomy of a Call Expression

add (2 , 3)

Operator Operand Operand

Operators and operands are also expressions

So they evaluate to values

Evaluation procedure for call expressions:

1. Evaluate the operator and then the operand subexpressions

2. Apply the function that is the value of the operator subexpression to the arguments that are the values of the operand subexpression

