Helping You Succeed in this Class

- Consultants. ACCEL Lab Green Room
- Daily office hours (see website) with consultants
- Very useful when working on assignments
- AEW Workshops. Additional discussion course
 - Runs parallel to this class completely optionalSee website; talk to advisors in Olin 167.
- Piazza. Online forum to ask and answer questions
 Go here first before sending question in e-mail
- Office Hours. Talk to the professor!
 - Available outside Call Auditorium between lectures

Labs vs. Assignments

Assignments

- Held every week
- Graded on completeness
 - Always S/U
- Try again if not finished
- Indirect affect on grade
 - Can miss up to 2 labsAfter that, grade reduced
- Similar to language drills
 - Simple, but take time
- Every two weeks First one due Sep. 18
- Graded on correctness Assign points out of 100
- But first one is for mastery
- Resubmit until perfect grade
- 40% of your final grade
- Designed to be more fun
 - Graphics, game design

iClickers

- · Have you registered your iclicker?
- If not, visit
 - http://atcsupport.cit.cornell.edu/pollsrvc/
- Instructions on iClickers can be found here:
 - http://pollinghelp.cit.cornell.edu/iclicker-basics/
 - Find these links on the course webpage
 - Click "Texts/iClickers"
 - Look under "iClickers"

Type: Set of values and the operations on them

- Type int:
 - Values: integers
 - **Ops**: +, -, *, //, %, **
- Type float:
 - Values: real numbers
 - **Ops**: +, -, *, /, **

• Type **bool**:

- Values: True and False
- **Ops**: not, and, or

Type str: Values: string literals

- Double quotes: "abc"
 Single quotes: 'abc'
- Ops: + (concatenation)

Will see more types

bool:

False in a few weeks

Converting Values Between Types

- Basic form: *type(value)*
 - float(2) converts value 2 to type float (value now 2.0)
 - int(2.6) converts value 2.6 to type int (value now 2)
 - Explicit conversion is also called "casting"
- Narrow to wide: **bool** \Rightarrow **int** \Rightarrow **float**
 - Widening. Python does automatically if needed
 Example: 1/2.0 evaluates to 0.5 (casts 1 to float)
 - Narrowing. Python never does this automatically
 - Narrowing conversions cause information to be lost
 - **Example**: float(int(2.6)) evaluates to 2.0

Operator Precedence

- What is the difference between the following?
 - 2*(1+3) add, then multiply
 - 2*1 + 3 multiply, then add
- Operations are performed in a set order
 - Parentheses make the order explicit
 - What happens when there are no parentheses?
- **Operator Precedence**: The *fixed* order Python processes operators in *absence* of parentheses











