CSE 115
Introduction to Computer Science I
Practice problem system back on-line. If you run into bugs, let Dr. Hartloff know.

In case I didn't tell all sections: the formal name of the string type in Python3 is str.

TopHat will count starting today.

Piazza: great usage. Search for answers to your question before posting :-)
Announcements - 2

Don't worry about doing the 'calling function' exercises until after Friday's lecture.

After Friday's lecture, do both the 'calling function' and the 'defining function' exercises.
Road map

- Review

Function calls

Demo: function calls in Python
Variables

A variable is a name that has been assigned a value.
Variables

Assignment statement

name = expression
Expressions

Variables can be simple expressions

\[ x = 3 \]

\[ y = x + 5 \]

The variable \( x \) is used as an expression!
Road map

Review

Fold Function calls

Demo: function calls in Python
Functions

A function is block of code that has a name.

A function's block of code is executed by calling the function.

A function is called using its name and a list of arguments.
Tapping into our mathematical intuitions, this is what we wrote on the board. Make note of the terminology, written in red.
Functions

Calling a function is like hiring someone to do a job for you.
Functions

Examples

\[ \text{pow}(3, 2) \]

\[ \text{round}(10/3, 4) \]

\[ \text{print}("Hi there!") \]
Functions

Examples

\[ \text{pow}(3, 2) \] computes \(3^2\), or 9
Functions

Calling a function

3 and 2 are 'arguments' of the function

\[ \text{pow}(3, 2) \text{ computes } 3^2 \text{, or 9} \]

the name of the function is 'pow'
Functions

Some built-in functions

abs(x)
help()
min(x,y)
max(x,y)
pow(x,y)
print(x)
round(x) and round(x,y)