Announcements

- Help session: Tuesday 5pm

Additional sessions: Tuesday afternoon, Thursday, Tuesday 12:36

- First HW - due Sat.
Data Types in Python

Python has many useful built-in ways to represent data.

Ex: - Numbers
   - Many types: integers (up to a max value), long (up to 64-bits)
   - real, float, complex
   - Strings
   - Words
   - Lists

(100)₂ = 4
Numbers: int, float, long, complex

Each type has a set of operators:

+ , - , * , / , // , %

- division
- remainder

"standard" quotient
(division gives int part)
Lists: a built-in class

Create a list: `groceries = list()`

`groceries = []`
Available Functions - See p. 42 in Ch. 2

* append (value)
* insert (position, value)
* remove (value)
* len (list_name)
* count
* pop()
* reverse()
- Write a short program that will rearrange a list into reverse alphabetical order.

- Write a statement that takes a list named "houses" and creates a new list "Some Houses" which contains every other entry.

- Make a list ['orange', 'banana', 'grape'] and replace 'banana' with 'lime' in 2 different ways.