

## Outline for May 6, 2014

**Reading:** *text*, §8

**Assignment due:** Homework #2, due May 9, 2014 (Note extension)

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1. Sequences
  - a. Sequences are a series of values in a particular order
  - b. In Python predominantly strings and lists but also sets and tuples
2. Strings
  - a. Sequence of characters (characters are strings of length 1)
  - b. Strings are immutable; really important for functions
3. Basic string operations
  - a. `+`, concatenation for strings
  - b. `*`, repetition repeats given value
  - c. `len()` returns length of sequence
  - d. `s in str` returns `True` if `s` is a substring of `str`, `False` otherwise
4. Indexing, `var[position]`
  - a. Count from 0 to `len(var) - 1`
  - b. Position can be a negative number to count from right
5. Assignment with indexing doesn't work as strings immutable  
`x = 'hEllo'; x[1] = 'e'` produces an error
6. Slicing, `var[start:end]`
  - a. Value at index end not included in slice
  - b. If omitted, starting value defaults to 0 and ending value defaults to last index + 1
  - c. Can use negative index
7. Example program [*strstuff.py*]