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## Outline for May 13, 2009

*Reading:* text, §11.1–11.2

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1. Types of collections
  - a. Lists
  - b. Tuples
  - c. Dictionaries
2. Lists
  - a. Mutable, unlike strings
  - b. Compare to arrays in other languages
  - c. Operations: concatenation, repetition, indexing, length, slicing as before
  - d. Membership:  $x$  in *List*
  - e. Equality and same object; test for same object:  $L1$  is  $L2$
3. Methods for lists
  - a.  $L.append(x)$ : append  $x$  to  $L$
  - b.  $L.sort()$ : sort the elements of  $L$
  - c.  $L.reverse()$ : reverse  $L$
  - d.  $L.index(x)$ : index of first occurrence of  $x$  in  $L$
  - e.  $L.insert(i, x)$ : insert  $x$  into  $L$  at position with index  $i$
  - f.  $L.count(x)$ : return the number of times  $x$  appears in  $L$
  - g.  $L.remove(x)$ : delete first occurrence of  $x$  in  $L$
  - h.  $L.pop(i)$ : delete the element with index  $i$  in  $L$  and return its value
4. Example: generate list of words in file (see `wl.py`)