

Outline for December 3, 2012

Reading: §18

Assignment due: Friday, December 7, 2012 at 11:55 PM

1. Review: dictionary
 - a. Collection of key-value pairs
2. Dictionary lookup [*morse.py*]
3. Example: word frequency count
 - a. Unsorted [*wfc-1.py*]
 - b. Sorted alphabetically [*wfc-2.py*]
 - c. Sorted alphabetically, but dictionary order (note `key=str.lower()` in `sorted`) [*wfc-2a.py*]
 - d. Sorted by frequency (treat `lambda x: x[1]` as an idiom to reference the *value* of the dictionary entry, not the *key*—to go from highest to lowest, replace `x[1]` with `-x[1]`) [*wfc-3.py*]
 - e. Sorted by frequency first, then alphabetically—note use of function `alphafreq(x)`; you can use any function here, and the parameter is the item [*wfc-4.py*]
4. Tuple
 - a. Ordered list of elements
 - b. Just like a list, but immutable
 - c. Simultaneous assignment an example of it