Collections

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UW CSE 140
Count the words in a document

Assume you start with a list of words:

"to be or not to be that is the question whether tis nobler in the mind to suffer the slings and arrows of outrageous fortune or to take arms against a sea of troubles and by opposing end them to die to sleep no more".split()
Count the occurrences of each word (make a histogram)

Most common words on Twitter
Count the number of unique words
A collection groups similar things

- List: ordered
- Set: unordered, no duplicates
- Tuple: unmodifiable list
- Dictionary: maps from values to values

Example: "word → definition"
Data Structures

• A *data structure* is way of organizing data
  – Each data structure makes certain operations convenient or efficient
  – Each data structure makes certain operations inconvenient or inefficient

• Example: What operations are efficient with:
  – a file cabinet sorted by date?
  – a shoe box?