

Collections

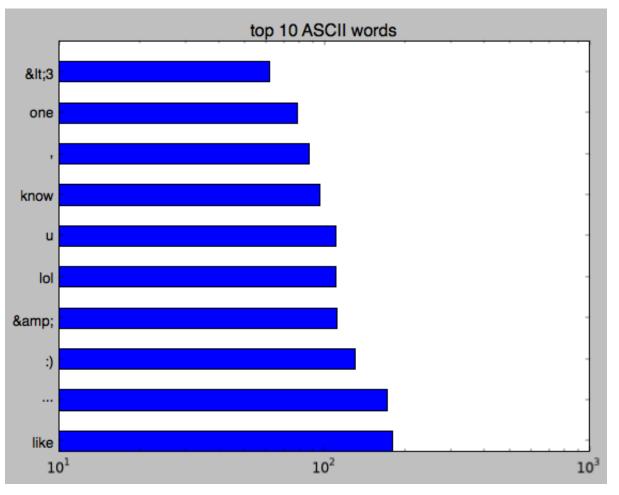
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Count the words in a document

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)

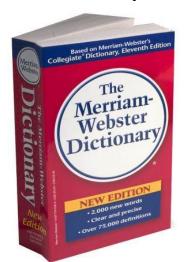


Count the number of unique words

A collection groups similar things

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

Example: word \rightarrow definition $\overline{\mathbb{Z}}$







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?

