

### **Collections**

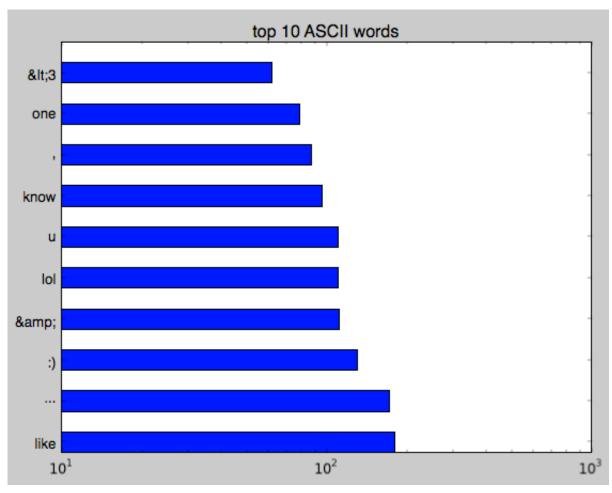
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#### Count the words in a document

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)



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



efinition subtender; subtender; sensa.

gio, efugio.

i. pretexto.

isa, tapujo.

curribanda.

subterráneo.

niös]. adj.

elicado, etéenetrante

te, etc.

subtill.

ari
salir dieguir avante o ade guir. seguir avante o ade guir. seguir avante o ade acertar, topar: not to succeotre, no llevarse bien (do other, no llevarse bien (do oth

#### **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?

