



Collections

BBM 101 - Introduction to Programming I

Hacettepe University
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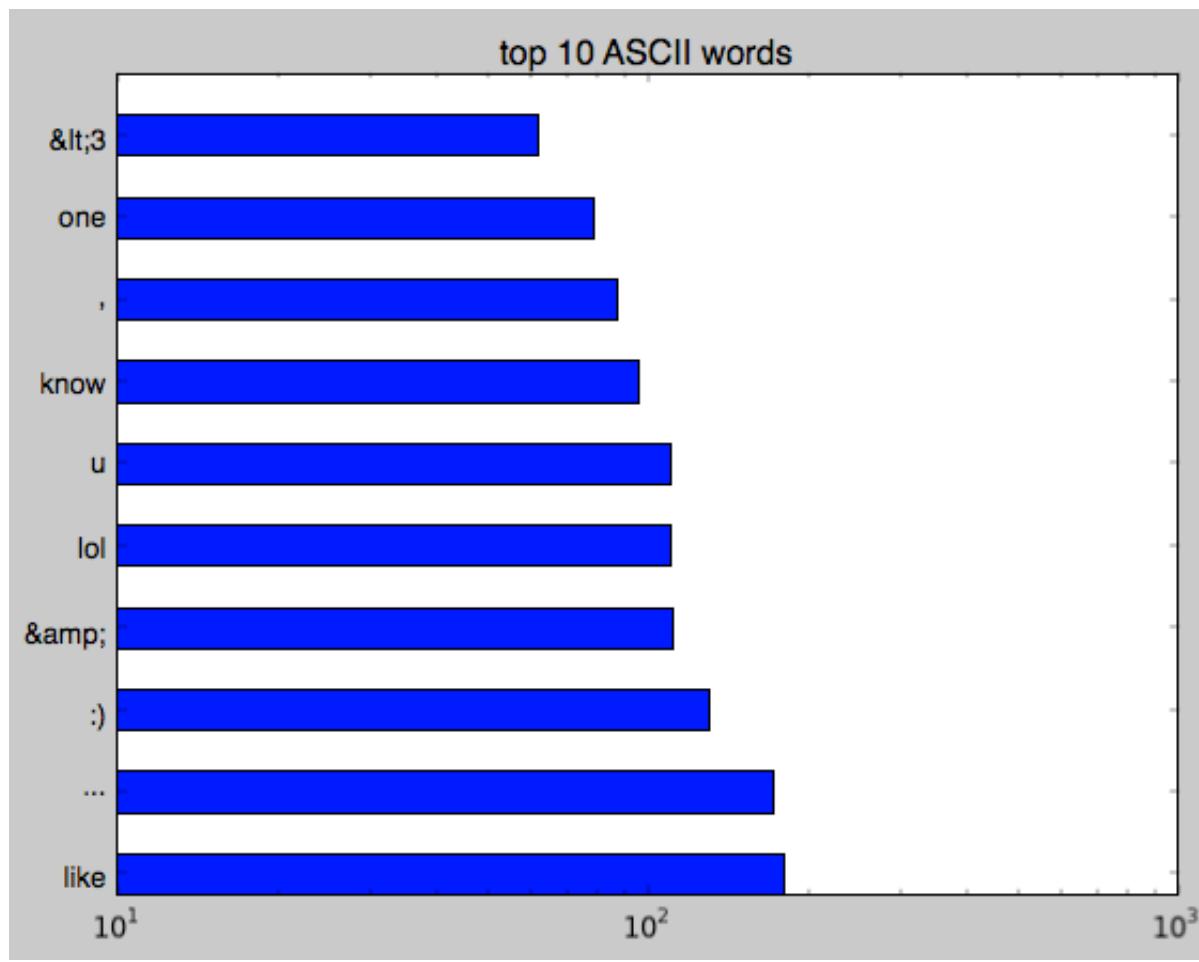
Slides based on material prepared by Ruth Anderson, Michael Ernst and Bill Howe in the course CSE 140
University of Washington

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)

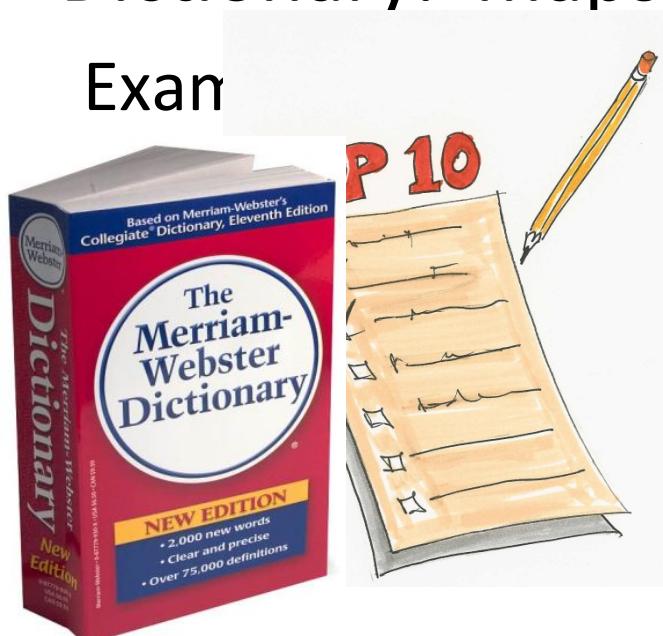


Most common words on Twitter

A Collection Groups Similar Things

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

Exan



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?

