



Collections

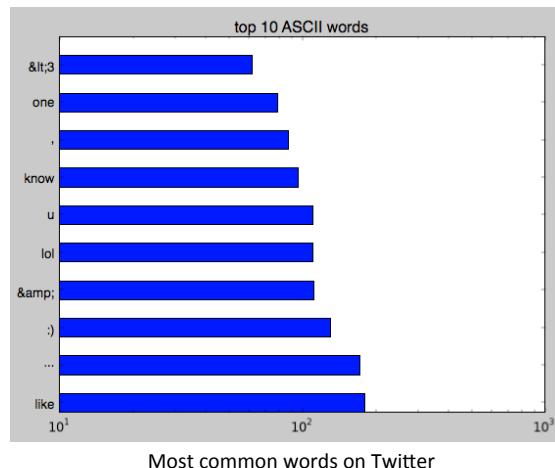
BBM 101 - Introduction to Programming I

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 Occurrences of Each Word (Make a Histogram)



Count the Words in a Document

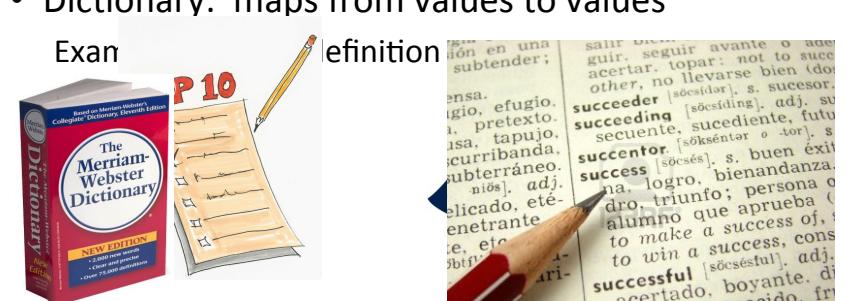
Assume you start with a list of words:

"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()

A Collection Groups Similar Things

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

Exam



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?

