

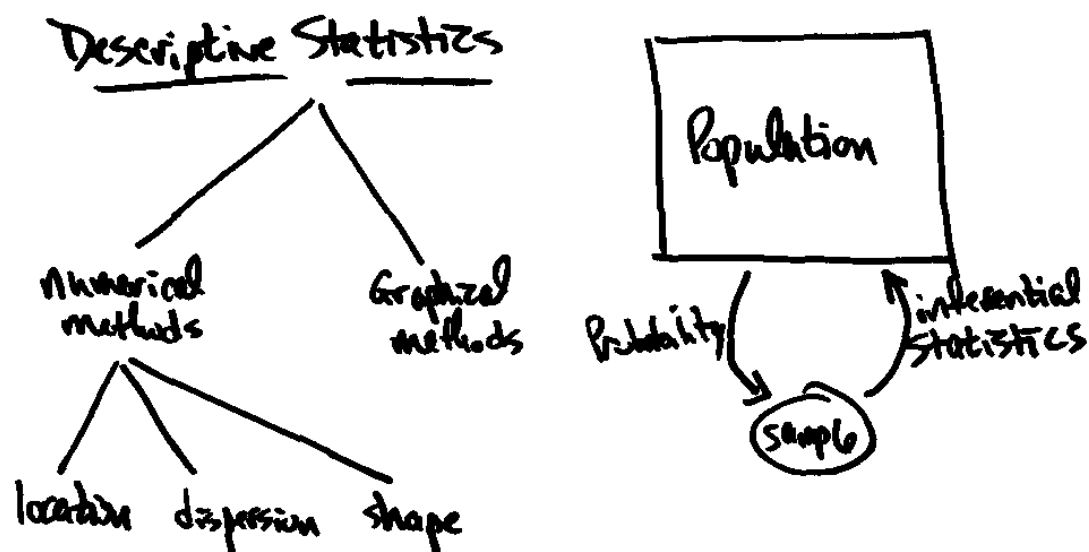
Free textbook:

www.openintro.org/stat/textbook.php

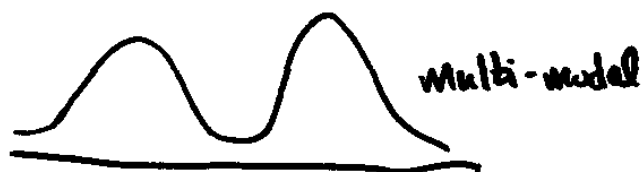
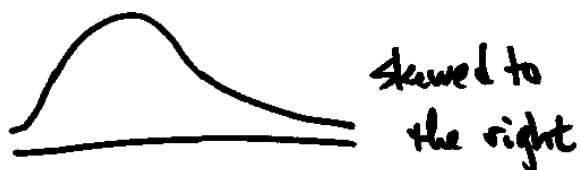
Stat 573

3-31-15

①



②



(3)

55 66 71
75 65 74
32 66 85

Sample of 9 observations
from an unknown source

Stem-and-leaf plot

Stems

3		2
4		
5		5
6		6 5 6
7		5 1 4
8		5

leaves

3		2
4		
5		5
6		5 6 6
7		1 4 5
8		5

(4)

Measures of location

Sample mean = \bar{x} = arithmetic average

$$= \frac{\sum_{i=1}^n x_i}{n}$$

Not robust
because a
single outlier
can
substantially change
its value

Sample median = Q_2 = "2nd quartile"

= "50% percentile"

is robust

= middle value (or average of
2 middle values)

⑤

Sample mode = most frequent value

Sample midrange = average of the largest & smallest values