Looking at Data

Graphic disp	plays are useful for seeing in dat	ra. in
data are con	mmonly described in terms of:,	,,
and	features. Some common distributions hav	ve special
descriptive	labels, such as,,	, etc.

http://stattrek.com/statistics/charts/data-patterns.aspx

Center

Graphically, the of a distribu	tion is located at the of the				
distribution. This is the point in a graphic display where about of					
the observations are on	In the chart below, the height of				
each column indicates the	of observations.				



Data patterns.notebook

Spread



Shape

The shape of a distribution is described by the following characteristics.



Number of peaks.



Skewness.

When they are displayed graphically, some distributions have many more observations on one side of the graph than the other.

Distributions with fewer observations on the(toward higher values) are said to be skewed(Theis on the)	0 1 2 3 4 5 6 7 8 9
Distributions with fewer observations on the (toward lower values) are said to be skewed (The is on the)	0 1 2 3 4 5 6 7 8 9
Uniform. When the observations in a set of data are spread across the of the distribution, the distribution is called a distribution. A uniform distribution has clear peaks.	0 1 2 3 4 5 6 7 8 9
If the < then the distribution will be skewe If the > then the distribution will be skewe	ed to the Left d to the Right
In a skewed distribution, theis farther out in the long tai	l than is the

Unusual Features

Sometimes, statisticians refer to unusual features in a set of data. The two most common unusual features are and .

Gaps. Gaps refer to areas	of a distributio	n where there are		The figure
below has a gap; there are		in the middle of th	ne distribution.	



Outliers. Sometimes, distributions are characterized by values that greatly from the other observations. These extreme values are called The second figure below illustrates a distribution with an Except for one lonely observation (the outlier on the extreme), all of the observations fall between 0 and 4.

