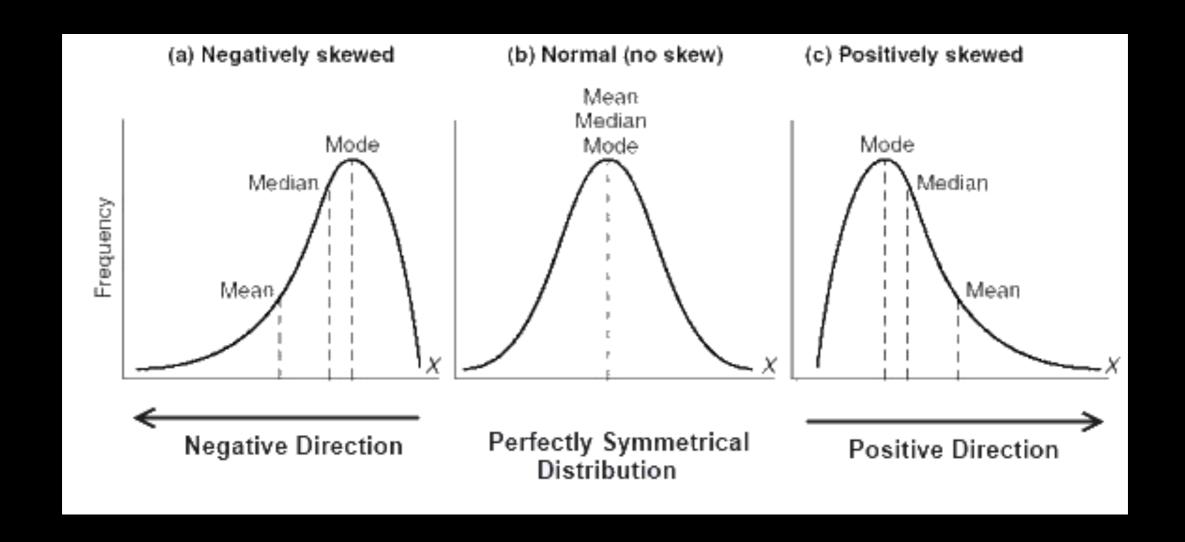
## MOST OF WHAT WE DO USES INFERENTIAL AND DESCRIPTIVE STATISTICS.

Descriptive statistics is about two things: central tendencies (i.e., means) and spread of your data (i.e., variance).

Today, we're going to focus on this.

	Population	Estimate Based on a Sample
Variance	$\sigma^2 = \frac{\Sigma (X - \mu)^2}{N}$	$s^2 = \frac{\Sigma (X - \overline{X})^2}{n - 1}$
	where $\Sigma$ = to sum $X$ = a score in the distribution $\mu$ = the population mean $N$ = the number of cases in the population	where $\Sigma$ = to sum $X$ = a score in the distribution $\overline{X}$ = the sample mean $n$ = the number of cases in the sample
Standard Deviation	$\sigma = \sqrt{\frac{\Sigma (X - \mu)^2}{N}}$	$s = \sqrt{\frac{\Sigma(X - \overline{X})^2}{n - 1}}$
	where $\Sigma$ = to sum $X$ = a score in the distribution $\mu$ = the population mean $N$ = the number of cases in the Population	where $\Sigma$ = to sum $X$ = a score in the distribution $\overline{X}$ = the sample mean $n$ = the number of cases in the sample



Central tendencies tells a lot about how your data are situated. We all know **mean** (average), **median** (middle number), and **mode** (most common number).

The alignment of these values indicates the **skew** of your data.

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