Standard Deviation Vs Variance

Standard deviation is defined as the average amount of variability in a certain data set. It informs you, on average, how far each score lies from the mean. In normal distributions, the higher the standard deviation is the farther the values generally are from the mean. This becomes vice versa when the standard deviation is on the low side. An easy way to find standard deviation is to take the square root of the variance value. Variance is the average squared deviations from the mean. To find variance, you first find the mean value, then go through all the values in the data set and subtract the mean and square the difference. There are certain test that you can use, for example, ANOVA of the analysis of variance test. This is used to assess multiple populations rather than just one population of data. The main difference between the two things is the size of them with variance usually being bigger than the standard deviation. They also use different units like meters or minutes for standard deviation while variance would have bigger units like meters squared.