std

syntax: `std(data)`

purpose: Computes the standard deviation of a vector of data. The standard deviation is the square root of the variance. The formula is

$$\sqrt{\frac{1}{N-1}\sum_{i=1}^{N}(x_i - \widehat{x})^2}$$

where N is the length of the data vector, $\widehat{x}$ is the mean of the data vector, and x_i is element number i of the data vector.

`std` is a built-in MATLAB function.

See also: VARIANCE