

Python - Statistics Module

The statistics module provides functions to mathematical statistics of numeric data. The following popular statistical functions are defined in this module.

The **mean()** method calculates the arithmetic mean of the numbers in a list.

```
>>> import statistics
>>> statistics.mean([2, 5, 6, 9])
5.5
```

The **median()** method returns the middle value of numeric data in a list.

```
>>> import statistics
>>> statistics.median([1, 2, 3, 8, 9])
3
>>> statistics.median([1, 2, 3, 7, 8, 9])
5.0
```

The **mode()** method returns the most common data point in the list.

```
>>> import statistics
>>> statistics.mode([2, 5, 3, 2, 8, 3, 9, 4, 2, 5, 6])
2
```

The **stdev()** method calculates the standard deviation on a given sample in the form of a list.

```
>>> import statistics
>>> statistics.stdev([1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5])
1.3693063937629153
```