

Glossary

1. **Bivariate**
Involving two random variables.
2. **Conditional Probability Distribution**
Given two jointly distributed random variables X and Y, the conditional probability distribution of Y given X is the [probability distribution](#) of Y when X is known to be a particular value.
3. **Discrete**
Defined for a finite or countable set of values.
4. **Distribution**
A set of numbers and their frequency of occurrence collected from measurements over a statistical population.
5. **Factorial**
It is the product of all the positive integers from one up to and including a given integer.
6. **Function**
A variable so related to another that for each value assumed by one there is a value determined for the other.
7. **Integer**
A member of the set of positive whole numbers {1, 2, 3, . . .}, negative whole numbers {-1, -2, -3, . . .}, and zero {0}.
8. **Integral**
It is the limit of an increasingly large number of increasingly smaller quantities, related to the function that is being integrated (the integrand).
9. **Marginal Distribution**
In probability theory and [statistics](#), the marginal distribution of a subset of a collection of random variables is the probability distribution of the variables contained in the subset.
10. **Parameter**
A quantity, such as a mean, that is calculated from data and describes a population.
11. **Probability**
A number expressing the likelihood of the occurrence of a given event, especially a fraction expressing how many times the event will happen in a given number of tests or experiments.
12. **Random Variable**
In probability and [statistics](#), a random variable or stochastic variable is a variable whose value is not known.
13. **Summation**
The act or process of determining a sum.
14. **Two-Dimensional**
A shape that only has two dimensions (such as width and height) and no thickness.

15. Variable

A quantity capable of assuming any of a set of values.