

normcdf (X)

normcdf (X, MU, SIGMA)

For each element of X, compute the cumulative distribution function (CDF) at X of the normal distribution with mean MU and standard deviation SIGMA. Default values are MU = 0, SIGMA = 1.

norminv (X)

norminv (X, MU, SIGMA)

For each element of X, compute the quantile (the inverse of the CDF) at X of the normal distribution with mean MU and standard deviation SIGMA. Default values are MU = 0, SIGMA = 1.

tcdf (X, N)

For each element of X, compute the cumulative distribution function (CDF) at X of the t (Student) distribution with N degrees of freedom, i.e., $\text{PROB}(t(N) \leq X)$.

tinvs (X, N)

For each element of X, compute the quantile (the inverse of the CDF) at X of the t (Student) distribution with N degrees of freedom. This function is analogous to looking in a table for the t-value of a single-tailed distribution.

chi2cdf (X, N)

For each element of X, compute the cumulative distribution function (CDF) at X of the chi-square distribution with N degrees of freedom.

chi2invs (X, N)

For each element of X, compute the quantile (the inverse of the CDF) at X of the chi-square distribution with N degrees of freedom.

fcdf (X, M, N)

For each element of X, compute the cumulative distribution function (CDF) at X of the F distribution with M and N degrees of freedom.

finvs (X, M, N)

For each element of X, compute the quantile (the inverse of the CDF) at X of the F distribution with M and N degrees of freedom.