

Discrete

Bernoulli

Mean $E[X] = p$

Variance $\text{Var}[X] = p(1-p)$

CDF

PMF

Hypergeometric

Mean

Variance

Binomial

Binomial

Mean $E[X]=np$

Variance $\text{Var}(X) = np(1-p)$.

PMF $\binom{n}{x} p^x q^{n-x}$

Negative Binomial

Mean

Variance

Poisson

Mean

Variance

Geometric

Mean

Variance

C

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