

# Exponential distribution

The exponential distribution is the probability distribution that describe the time between events in a Poisson process (a process in which events occur continuously and independently at a constant average rate).

## Cumulative distribution function

`a := curve2d(exponentialdist(x, 0.5), x, 0, 5, 100)`

`b := curve2d(exponentialdist(x, 1), x, 0, 5, 100)`

`c := curve2d(exponentialdist(x, 1.5), x, 0, 5, 100)`

`d := curve2d(exponentialdist(x, 2), x, 0, 5, 100)`

Name	Title	Color	Origin
a	$\lambda = 0.5$	Red dashed	
b	$\lambda = 1$	Blue dashed	
c	$\lambda = 1.5$	Green dashed	
d	$\lambda = 2$	Yellow dashed	

