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Simulation The same as any other transition in a Markov chain). Consider a queueing model, and let p_0 denote the probability of being in state 0 (that is, the probability of having zero customers in the queue) and p_1 denote the probability of being in state 1. Let the queue receive

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Transitions between states are probabilistic and exhibit a property called memorylessness. The memorylessness property ensures that the probability distribution for the next state depends only on the current state.

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Rob Harrop

In queueing theory, a discipline within the mathematical theory of probability, an M/M/1 queue represents the queue length in a system having a single server, where arrivals are determined by a Poisson process and job service times have an exponential distribution. The model name

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The non-negative integers where upward transitions from i to $i + 1$ occur at rate λ according to a Poisson process and describe job arrivals, while transitions from i to $i - 1$ (for $i > 1$) occur at rate μ (job service times are exponentially distributed) and describe completed services (departures) from the queue.

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