

Lecture 2 notes

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These definitions complement Sect. 1.1 of the text.

- 1) For a discrete random variable X , we say a real number x is a *possible value of X* if $P(X = x) > 0$.
- 2) A *discrete-time Markov chain* with state space S is a sequence of random variables X_0, X_1, X_2, \dots , defined on a probability space (Ω, P) , such that $P(X_n \in S) = 1$ for all n and (X_n) has the Markov property (as defined in the book).