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### Preface - Probability, Statistics and Random Processes

One of the simplest stochastic processes is the Bernoulli process, which is a sequence of independent and identically distributed (iid) random variables, where each random variable takes either the value one or zero, say one with probability and zero with probability  $p$ . This process can be linked to repeatedly flipping a coin, where the probability of obtaining a head is  $p$  and its value is one ...

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