

Sampling and Monte Carlo Simulations

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Nondeterminism

Causal nondeterminism:

Not every event is caused by previous events

Predictive nondeterminism:

Lack of knowledge about the world makes it impossible make accurate predications about future states

Stochastic Processes

An ongoing process where the next state might depend on both the previous states **and some random element**.

Rolling a Die

```
def rollDie():  
    """returns an int between 1 and 6"""
```

```
def rollDie():  
    """returns a random int between 1 and 6"""
```

