



Moneyness.

Consider an option written @ time. O w/ exercise date @ time T

The usual usage:

· We can specify the strike for a call/put by saying that it's at the money, i.e., K=5(0)

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Finite Robability Spaces.
 ... serve as environments for possible paths that the price of the asset can take.
  Q: What is the expected payoff of a
         100 strike call on 5?
       V_c(\tau) \sim \begin{cases} 20 \\ 0 \end{cases}
                                   w/ probab 46
                                   w/ probab. 5/6
              \mathbb{E}[V_c(\tau)] = 20(\%) = \frac{10}{3}
   In general: E[g(X)] & g(E[X])
All the finitely many scenarios are called states of the world.
We assume that:
    · each can happen, i.e., its probabso
    · they exhaust all possibilites, i.e., Zprobab=1
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