

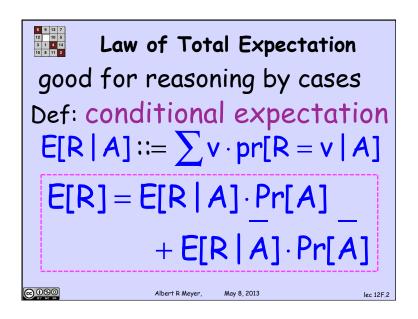
Total Expectation

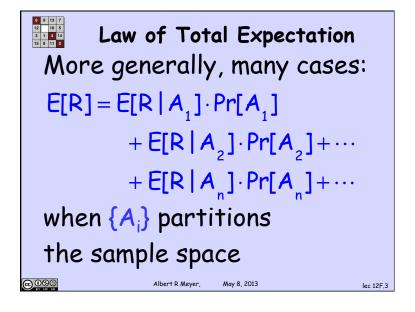
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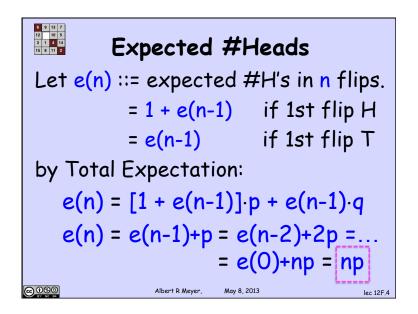
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May 8, 2013

lec 12F.1







Expected #Heads Let e(n) ::= expected #H's in n flips. = 1 + e(n-1) if 1st flip H = e(n-1) if 1st flip T by Total Expectation: $e(n) = [1 + e(n-1)] \cdot p + e(n-1) \cdot q$ $e(n) = e(n-1) + p = np = E[B_{n,p}]$