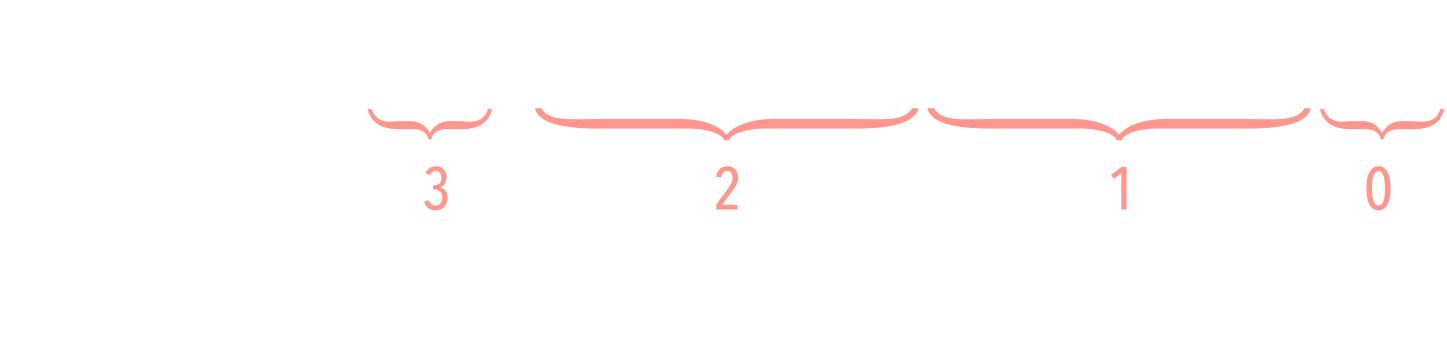
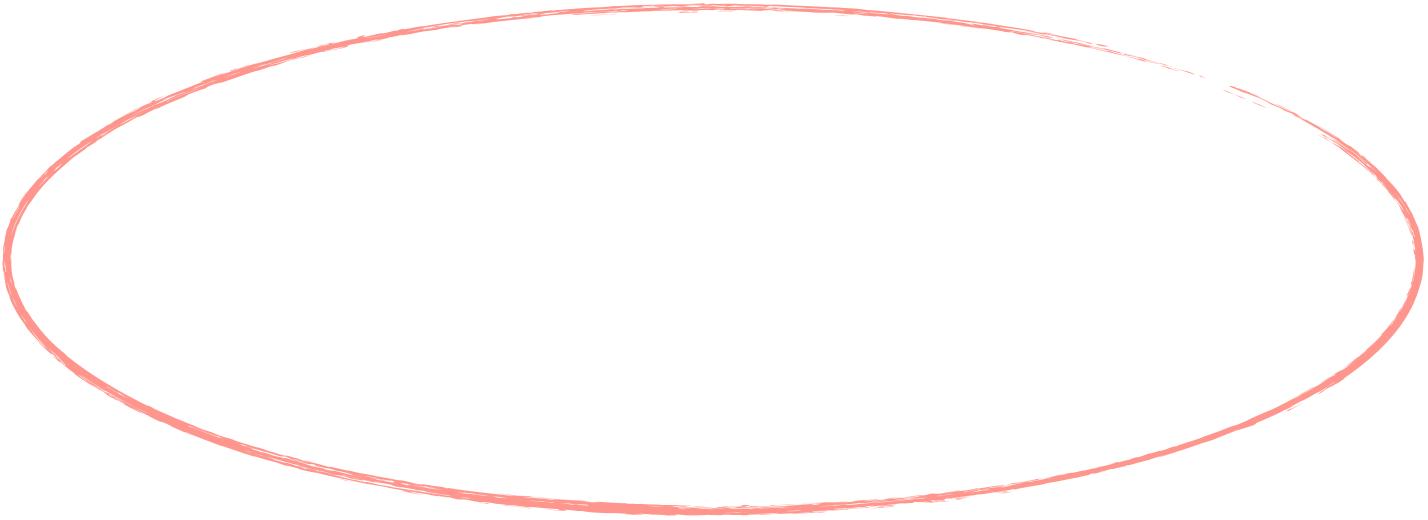


example (cont'd...)







discrete random variables: probability mass function

discrete random variables: probability mass function

example (cont'd...)



Toss a coin 3 times: the sample space is Ω : {H,T} \times {H,T} \times {H,T}

Define the random variable: X = the number of heads

What is the probability distribution of X?

Outcome (
$$\omega$$
) HHH HTH THH HHT HTT THT TTH TTT

 $X(\omega)$ 3 2 1 0
 $P(X=3) = \frac{1}{8}$ $P(X=3) = \frac{3}{8}$
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discrete random variables: probability mass function

example (cont'd...)



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