L105 Random Variables

L105 Random Variables

martedi 14 marzo 2023 17:04

$$X = \begin{cases} headS, & tails \end{cases}$$

$$P(X = tails) = \begin{cases} \frac{1}{2} = 0.5 = P(H) \\ 2 = 0.5 = P(T) \end{cases}$$

$$P(X = headS) = \begin{cases} \frac{1}{2} = 0.5 = P(T) \end{cases}$$

$$P(T) + P(H) = 1$$

$$\sum_{X} P(X = X) = \int_{X}$$

$$P(X=x) > 0$$

$$P(X=x) \leq 1$$

$$P(X=x) = 0$$

$$P(X=x) = 0$$

$$P(X=x) = 0$$

 $\bigcirc \angle P(X=x) \leq 1$

$$P(X=X) = 1$$
 CERTAIN.

$$P(X = heads) = 0.6$$

$$P(X = tails)$$

$$\begin{cases} 0.6 = 0.4 \end{cases}$$

X = 3 heads, tails s

$$P(T) = (1) - P(H) = 1 - 0.6 = 0.4$$

$$X = \{ \{ \{ \{ \} \} \} \}$$
 $Y = \{ \{ \{ \{ \} \} \} \}$
 AND

$$P(X = H) = 2$$
 $P(X = H) = \frac{2}{6}$
 $P(X = H) = \frac{1}{2}$
 $P(Y = 2) = \frac{1}{6}$
 $P(X = H) = \frac{1}{2}$

$$P(H,2) = P(H \cap 2) = \frac{1}{2} \cdot \frac{1}{6} = \frac{1}{12}$$

$$P(X = H) = \frac{1}{2}$$
 $P(Y = 2) = \frac{1}{6}$
 $P(X = H) = \frac{1}{2}$
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 $P(X = H) = \frac{1}{2}$
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