

X_1, X_2, \dots, X_n
↑ ALTURA ↑ PESO ↑ IDADE

$P_r(X_1 = x_1, X_2 = x_2, \dots, X_n = x_n)$
↑ DISTRIBUIÇÃO CONJUNTA

$$X \sim \text{BINOMIAL}(n, \theta)$$

$\theta = \{n, p\}$
↑ PARÂMETROS

$$\underline{X} = \{0, 1\} \rightarrow \text{ESPAÇO AMOSTRAL}$$

$$\underline{\theta} = p$$

$$X_i = \begin{cases} 1, & \text{i-ésimo} \\ & \text{LIGAMENTO} = k \\ 0, & \text{c.c.} \end{cases}$$

$$E[X|X=y] = \int_X f(x|y) d\alpha = \alpha_y + 3$$

X DENSIDADE CONDIÇÃOAL

$\Rightarrow \checkmark$

$$\underline{X_1, X_2, \dots, X_n =: \underline{X}_n}$$

$$Pr(X_n \in \text{MOBTA JUSTA}) \geq 0.80$$



$$Pr(0.4 \leq \bar{X}_n < 0.6) \geq \underline{0.8}$$

$$\bar{X}_n \xrightarrow{p} \frac{1}{2}, \quad 0.1 \quad \varepsilon \quad \underline{n}$$



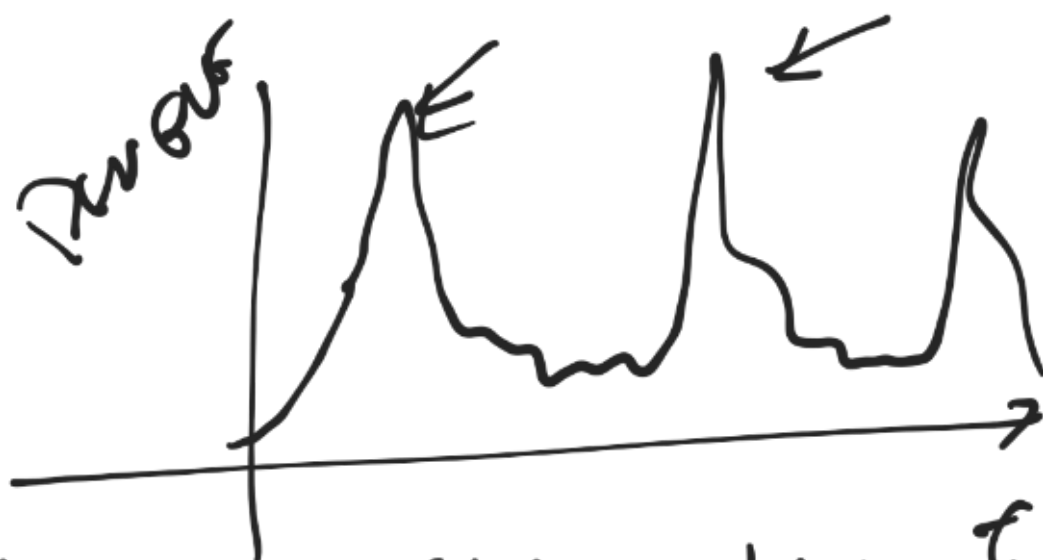
$$E[\bar{X}_n] = \mu = \frac{1}{2}.$$

LANÇAMENTO 111

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$$\Pr(X_n = 1 | X_{n-1} = 1) =$$

$$p = \frac{1}{2}$$



$$\Pr(X_t = y_t) \neq \Pr(X_t = y_t | Y_{t-1} = y_{t-1})$$

DESENHO EXPERIMENTAL



$$\Pr(\bar{X} \geq t)$$

0.1.15.8

ENSAIO CLÍNICO

$H_0 = \text{DROGA A} \equiv$
 DROGA B

a) QUANTOS PACIENTES?

b) 11 11 CM

CADA GRUPO } - CONTROLE
 - TRATAMENTO

$n_c = n_t$?

BOLSA

VALORES



X_{jt} = VALOR DA AÇÃO
DA EMPRESA j

VA NO TEMPO t

$(X_{11}, X_{21}, X_{31}, \dots)$ $\Rightarrow t=1$
 $X_{21} \dots$

$\rightarrow \underline{\underline{TOP}}$ X_{jt} / X_{jt-1}

$$Pr(X_{1:T} = x_1, \dots, X_{K:T} = x_K)$$

$$\rightarrow Pr(X_{1:T} = x_1, \dots, X_{K:T} = x_K)$$

$$X_{t+1} = \boxed{\alpha} \cdot X_{t+1}$$

PARAMETERS

$$\underline{X_{t+1}} \sim N(\mu_{t+1}, \sigma)$$