Lord and prob Bir. by moresd. Lee 3 2/7/17 Mark 3#1 > (A) = \$ ((AB)) = \$ ((10)) ((a)) [Welshoul prob of dage P(A/B) P(B) & Prior on prompt, want 7 8(B(+) = = COID (B)

SPEIB:) PBi)

Bye Thy poplarion on A dope/enlair pam of inpur Your asser gets better with darr. Auster my to thick whow prob: Odds (A) := 9(1) = 9(1) = 1-P(6) 955he P(0) & (0,1) i.e. \$0, \$1 Odds = A "A:1" ic. A time out of 5 it hill occur on ay. Rame ? (0,00) () dd sA(A) := ddsa) = P(A) = 1-P(B) P(A) odds agains" 4 the one of 5 is will not occur. f: 1 odbs minos => P(A)=0.7, P(B) = 0.06, P(AB) = 0.036 PAB = .036 = 0.6 PABC = PBBC = .174 P(0) = P(0) + P(0) .2: ,0% + P(B') = P(B) = ,16¢

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Brek sø sle stog....

MIE'S ha issues... Il frequencies sons has issues...

Uf dois ne conside & our own of inexast? X 042 don.

Who's my?

(1) P(0)?? Die one inmante vale!! P(0) is dance! 1 Pg(0)
one you don't know it!!

(2) (8) make no sense - you con calc. prob of down what known of 150 copy (8)= & P(X18) P(O) has P(O) which will be a exept for when 80=0 = P(O) = 1

3 P(X) = P(X10)

= (3) (61x) = (6) = 1 if D is its the whe. Clark not useful!

Frequencia: O is de value

byesin: distron but he can use P(0) to represent uncertainty in this value a priori. > 0 is a r.v.

=> P(O|X) = P(X|O) P(O) Now is cohorers
P(X) & How is display.

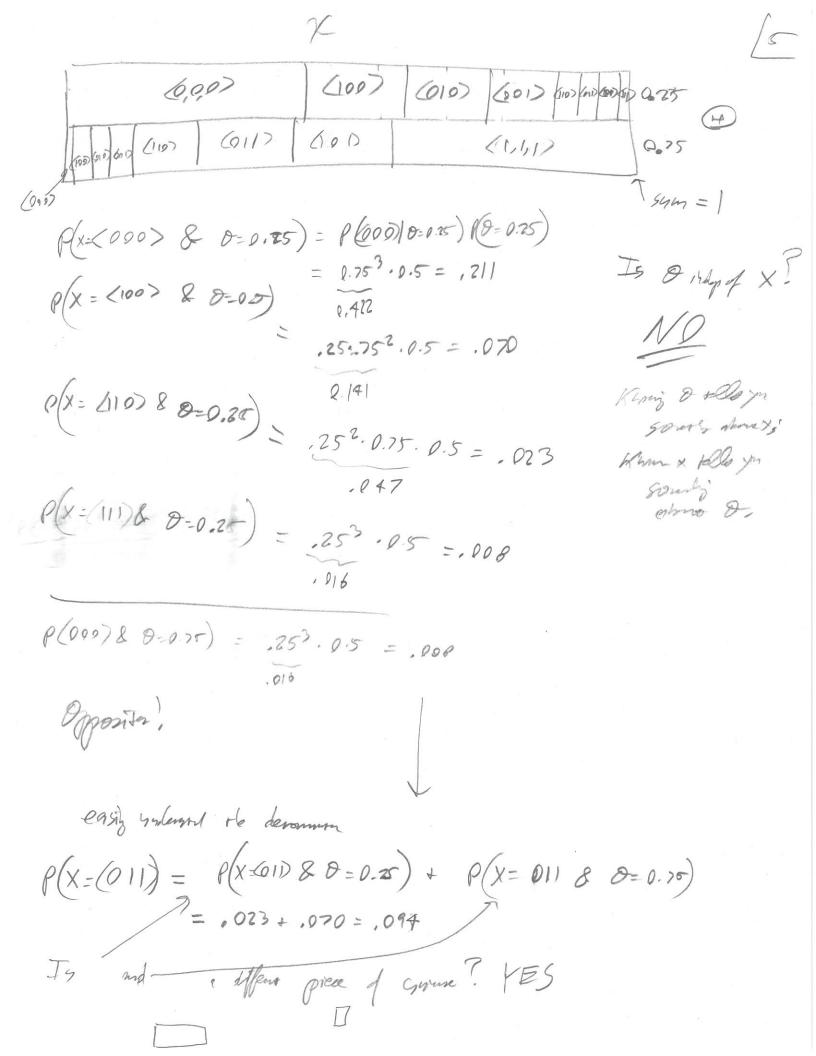
and by bys 7h (100) = (100) (0) or (100) (0)

E p(100) (0)

S (100) (0) 180

X: Dam (the offert) D: Model (the crisse) P(D) affect | case 1/1 | case problem "
P(DIX) case | effect => +6 1/2 | problem " We does this rear. Let X = (0,1,1) and the second who models 0 = 0.35 0 = 0.5 ... absurd ... bear less go with it... P(X|O = 0.75) = ... 25... 75... 75 = ... 141P(XIO=0.25)= .75.25.25=.047 Good #6 is now likely but who is explicitly PO=0.75/x)? $\frac{P(x|0=0.75)}{P(x)} = \frac{P(x|0=0.75)}{P(x|0=0.75)} = \frac{P(x|0=0.7$ Resolt of Byes thin Need NO=0.75), P(D=0.05), Rember. re que allored so consider our prior unassain, in the model param who should be choose? P(0) = { 0.75 up = Pringle of intiference: All models eggely likely of priori X me & me both r.v.'s. les's inchire dem O = (H) = { 0.75, 0.25}

 $X \in X = Syp[X]^3 = \{0.13 \times \{$



Non whoste prob of P(O=0.75/X=(011))? 7 P(0,11) | 0=0.76) = 0/41 = P(X=011 &10=0.75) (X=011) - .020 .023+.020 = 0.75 (Co174idence thas 0=0.75) WWW + 19 and of course P(0-0.25 | X (011)) = 1-P(0=0.25 | X (011)) = 0.25 0.5 0.75 ×=6,11) Boyeson Continues $0.75 = \frac{0.141}{0.09} 0.5$ 0.5 = 1 prior 0803:1 P(0=0.75/X=(0,1)) $= \frac{P(X=0,1) | \partial_{-0.75}}{P(X=0.1) | \partial_{-0.75}} \frac{\partial_{-0.75}}{\partial_{-0.75}}$ Q(0-0.25 | X=0,10) Note: odds Soloni ·141 = . 25.75 = 3 P(X)Poskum odds = 3 O(x=0,1,1) is the prior on the down. What does the prot of this does look like ground our prior on D. Prior pred down '