(dru bech of conts) Leeme# A 5/26/11 Admin Streff - Hu powel Référence besneen (52), 5! for 54 in poker hands Mosation 12 Am P Baproni Er $P(0) = \frac{1}{4}$ KEP KER PA) gin you kim 25 KO Shrink Il, EIR Dada rossos Is drawy a club ind of day a grade? Flip a con P(+)= 1 who we she odols? Odds a a rosse of hon much you bet va hon much you war. In this gave, you should mor \$11 for every ber you make tence => odds ac +, "1+01", 1:1 Roll q die: If you in you take 6 but you bes 1 505, if you lose, lac 1 => \frac{1}{5} 1:5 Far gare 196-1 Who do he copper (rest closs) 5.5 + = 0

Bugly you do odds-agmist. I'll ber pour 5:1 $Odds(E) = \frac{1 - P(E)}{P(E)}$ In de Hu, I sen colds youist => P(3) = Odd(E) +1 We know about integedence - let +all ybons it some more. Ponda this: P (IBM Stock of som gran It mis in Brown tree Today) Jobs rainy in Bress Ades master ? Who does 'more " rong? Informational Relevance is de Lidms test for integerlence. => No .- degre 14depular thoris the same as AIBM Sout of tomorrow) A glund

Let's	families sh				
	*				
	be the set				
	A AC 51% #9%	what is	this dembers	1 ? log on	Aug ?
les B	de de ser	4 00	in In Drawn	Aven	
LB TH	A. BC				
As e	spend, joint	Space			
6°	A AC	,			
Non man	c looking for				
PAI	B = PC	(\mathcal{A})	Now look the shrank		

"gren" "Conlisming on"
Shuting Cunterse

Em brokown of sprue is belongy to A Conditional Probability

P(A | D)

Fig. AB

Swiller Gramme

For acec

Formal Probability

Suller Gramme

The Suller Gramme

The Scale of the Suller Gramme

The Social of the Suller Gramme

The Suller Gra

The soon is the scale factor? Zoom in ...

If I soon is on is I have to ask early loo as by

I'm soon is by P(6) = Ihm to mbe aught it there is by

=> P(A/B) - P(AB) - (1)

The every

we cre observe forms

=> P(A1B) = P(B) Bayes Pule

Is this consen? For religioner aus, $P(AB) = P(A) \cdot P(B)$

P(F/19) = P(A) P(B) = P(B) Just is on Huntin Said!

15

Bayes Rule not inscerting in the case of A, B inforder. A full Comple: 1,000 adults in wordamle, were tracked, 200 what we surfaces, 60/1000 hund lung comer, 36/1000 have surhers will My coner. Assure n=1000 is large cough to extre the tree grob accuracy. (an issue the will be studied is depole lover) REAL let A be de every of susker PROBS! I be the out of bry come P(A) = .200, P(B) = .060, P(AB) = .036 to scale . Itow? Les's draw IL Rep? Ind? Microscope Adda

When is prob of large conver grown suchary? $P(B|A) = \frac{P(BA)}{P(B)} = \frac{.036}{.2} = .16$

Would you roll de dice nul du probability? DON'T STOKE.

Woo does this can look like T. Unince
"Shippink" then "expended" to have area I itsteel

of its preven .2

Von showly smake . - so I about happen, non

non unh am does B take?

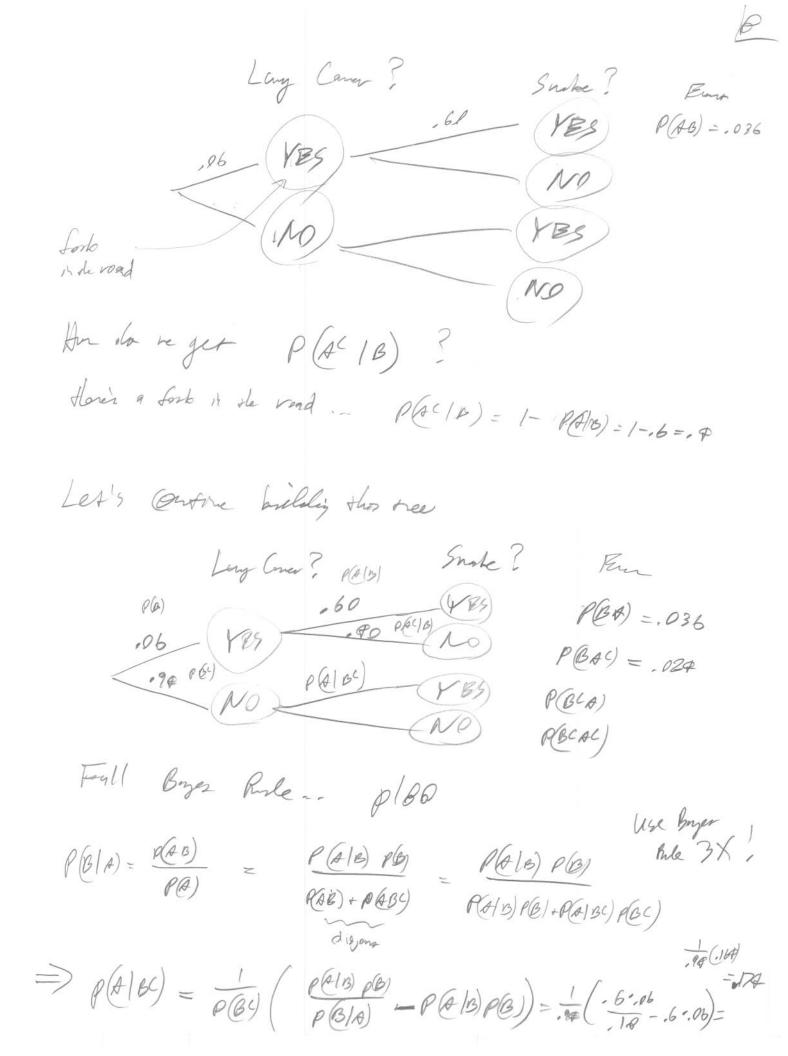
Who if he was prob of Shakay gran larg connex? $P(A|B) = \frac{P(A)}{P(B)} = \frac{0.56}{0.06} = 0.60$

A

Ask and anno... a person ambor in ... you dogue his not lung cover, chose are be surbal...

A cool hash wich: P(A16) = RAG = C(B1A) RA) = 18.2 = .60 V Her oher prob you have buy oner from you did not subse? Should be Low. $P(B|A^c) = \frac{P(BA^c)}{P(A^c)} = \frac{.02P}{0.8} = .03$ Still hyppers... P(B) = P(B) A) + P(B) AC) > P(BAC) = P(B) - P(B) degions size = 0.060 0.036 =.02¢ ANAC=d Incrensed Risk ? $\frac{P(B|A)}{P(B|A^2)} = \frac{-10}{.03} = 6 \times \text{none risk}$

Let's look at this from a different angle.



hliv older stron gove look the? BC 1722,7 which unkes some Complete de sees on pour pour .179 .164 damesone .036 .024 .726 E nou feate don't an gea lang com = good! Non let build de merse rec Sall staff to explore ...

South ? Long Court? $\rho(B(A) = .18 \quad \text{(b)} \quad \rho(B(A) = .036)$ $\rho(B(A) = .036)$ $\rho(A) = .036$ $\rho(A) = .036$

Como: How my continul probs due are? f - Z = 0sport sport

Roadings

Sets

Coursing sets

Proba averus
indepense I depalue

Cord Probability / prob neces

Randon Vanishle

Facepearen / Vanimee

Of sortening Theory

Coveriance

Adding r.v.'s

OATA!