Mah 391 Lee 8 2/28/17 Pefine $B := \frac{P_{H_0}(x)}{P_{H_0}(x)}$ if B big => Ha is a kine ole dang X. decommon in Eyes Pule!! prob of dam! = P(X10) P(O) dO S P(x/0) P(0) 40 oops... ([102], 56 (1-5) 100-61 (1) de ((-0) 100-61 () do $=\frac{0.00}{0.5100}$ = 1,39 He bester model, bus in decise? valiting of Teffreig 161 scale of bugs From Ringrams for Ha

B<1 => 40 evidence abosen

B \in \left[1] 3i] => bandy word running

B \in \left[3i] => SASSAML

B \in \left[0:130:1] => SAM

B \in \left[0:130:1] => Very SAVORY

B \in \left[0:100:1] => Very SAVORY

B \in \left[0:100:1] => Perf SAVORY

B \in \left[0:100:1] => Perf SAVORY

B \in \left[0:100:1] => Perf SAVORY

OUT LEADS ben ... bendy words recorning

Former dam

Jestry psycholoreus (ESP)

Ho: 0=0.5

Ha: 0 \$\psi 0.8

\$\pi = 10\psi, 910, 000

\$\pi = .50001760

\$\pi = .52, 263,970

furmer

Jul = .0003 < 5%. \$\Rightarrow psychibareus \text{aboly}!!

Bost ... \text{Boyeson.} \text{Boyeson.} \text{Olx-bon}(52265971, 5422653)

Ho! & = 0.5

14: 0~ U(0,1)

Testy is very subtle

Bugs Fretur sker und for Product Sallen

Mod 1: X 10 ~ N (M, 62) US Bod 2: X 10 ~ Lagron ()

Sm. distr.

Midson I

(3

Mithu Digits

X~ { N(0,13) up 2

Who is de POP of X?

P(x) = S P(X/8) P(B) = = 1 Me, 13 + 1 Mio, 13)

= = = = (e=1x-1)2 + e== (e-10)2

this is called a mother disor"

/, - Br-(0,0.1) , X2 ~ Br (0,0,9)

Here ear up ;

 $P(X) = \sum_{Q \in Q} P(Q) P(Q) = \frac{1}{2} {\binom{4}{x}} \left(0.1^{\times} 0.9^{10-X} + 0.9^{\times} 0.1^{10-X} \right)$

bin (n,0)

Hierarchal Boolel

999 | 099 | 099 | 099 | 111 |

$$P(x) = \int P(x|0) R(0) d0$$

$$= \int \left(\binom{4}{x} \partial^{y} (1-0)^{4-x}\right) (1) d0$$

$$= \binom{4}{x} \left(\binom{4}{x} \partial^{y} (1-0)^{4-x}\right) (1) d0$$

Ynhuly O), On Bern (x, B)

$$\beta(x) = \int \rho(x|0) \, R(0) \, d0 = \int \binom{h}{x} \, \theta^{x} (\theta)^{h \cdot x} \, \frac{1}{\theta(x)} \, \theta^{x-1} (-\alpha)^{h-1} \, d\alpha$$

$$= \binom{h}{x} \frac{1}{\theta(x)} \int \theta^{x+\alpha-1} (-\alpha)^{h-x+\beta-1} \, d\alpha = \binom{h}{x} \frac{b(x+\alpha, h-x+\beta)}{R(\alpha, \beta)}$$

Yabeshbir (h, a, B) := (4) B(xxx, nxxB)

I en door! Bega-Brhaming

Syp(x)= {1,..., n} wy? had after the hierarchy / mistine Panspre SEN, X, 6>0 m?

(Z(X) = n x+B , Var(X) = nxB(x+B+7) (+ B+1) (+ B+1)

if \$ = 0 = (€()=n0 司祭寺司は最もコをますーーコルニガー

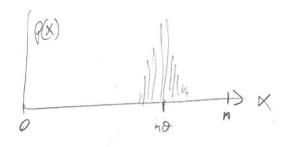
In $E(x) = \lim_{\alpha \to 0} n$ $exp(x) = \lim_{\alpha \to 0}$

(P) (1-9)

In the limit of & >0, this is a bound ... by should this be ?

Ba 6,0

ber bu (4,0,1), D:= 200



图(大)=10 (m(x) =40(-0)

if he find, ver fiel

E(x)=40

Vm(x) = 40(-0) 2+13+9

if a p bry verter) -> note) (-0)

you on word the spread

P(Me) = 0.511 \$ 0.5 Wy? No one kons

7 ∝, b (nge ben (,B) → Deg (x)

ie a brance

In its useful?

Center birich door, 6115 Semles unt =13 Children, genters & Liver 12 children...

# Boys 1	0	1	2	3	A	5	16	7	18	-	10	71/ 1	2/
XX			1		1			CONTRACTOR DESCRIPTION OF THE PARTY OF THE P	DESCRIPTION OF THE PARTY OF THE		1	. /	1
B14(2,051)	l	13	72	259	628	1945	1367	1266	054	410	157 26	2	6118
(12, 94,32)													

11 = ,515 UM PLE

spirit stroll is one (ostrule)

Reging? Worm has typone progression to love under

Ream to Beyesin Rop $(A) = \frac{P(x|0) P(0)}{P(x)}$ x 0 - Bn (4,0) Or bern (X,B) = Olx ~ Be(x+x, b+h-x) Now which is no XOIX when X# is 40xx obs. he have show the Xª IX ~ Bothell X+X bus dut if X is ht hest obs? X= |X ~ [if. O knom... X On Bin (n , 0) by 8 956mm. prove how idea on & represent by Olx, the postion. P(x'k) = SP(x 10) P(0/x) d0 midre disor!. - S((4x) 0x (1-0) 4 - x -) (1-0) B+4x-120 Some this was in before!!! = Bearbon (not, < + x, B+h-x+1) X10 ~ 0, (n, 0) Dr Ren EB) > prior pedien disor. 7 PELX) = PELO PO) $P(X) = \int P(X|O) P(O) dO \qquad \text{Some oby !!!}$ = S(2) ox (Logh x in pox (Logh do = Bear Bu (h, x, B)