

this time: categorical data analysis;  
 next time: wrap-up

week: TWT ch AM57  
 work 5 due (10) 1 Dec 08  
 this Fri 5pm; (1)  
 lab 8 due this Fri 5pm: in the box outside Barkin 135

$\rho_{11}$	

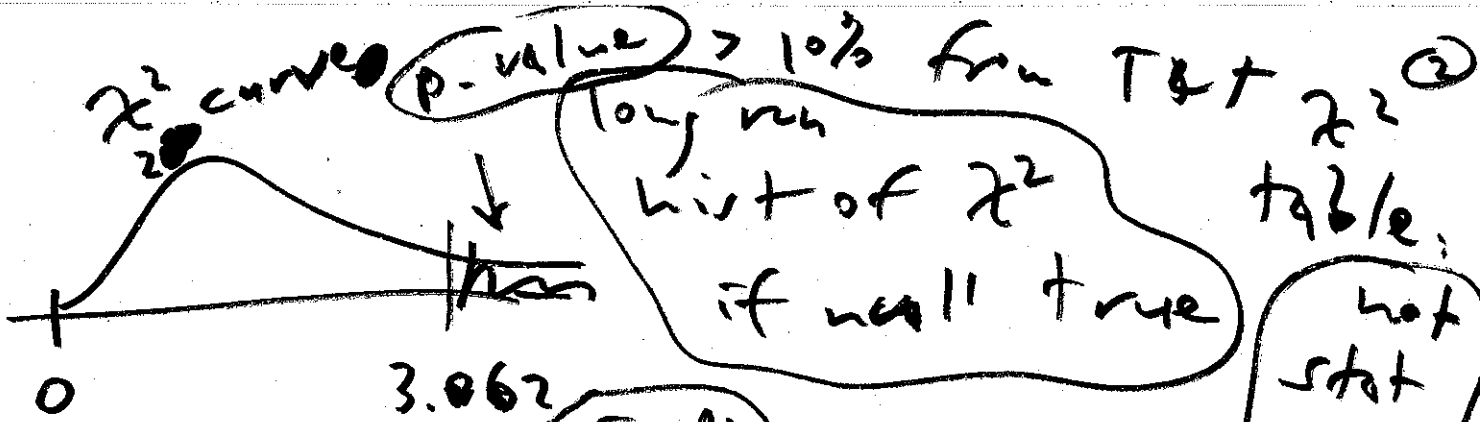
$\hat{E}_{11}$	

$0 - E$	
-7.3	17.3
-1.8	+1.8
+9.1	-9.1

$$(\rho_{11} - \hat{E}_{11})^2 + (\rho_{12} - \hat{E}_{12})^2 +$$

$$+ \dots + (\rho_{32} - \hat{E}_{32})^2$$

$$\frac{(\rho_{11} - \hat{E}_{11})^2}{\hat{E}_{11}} + \frac{(\rho_{12} - \hat{E}_{12})^2}{\hat{E}_{12}} + \dots + \frac{(\rho_{32} - \hat{E}_{32})^2}{\hat{E}_{32}}$$



not stat sig

3.062

from JMP:  
p = 22%

0

2

59	191	250
27	95	122
57	263	320

51.7	195.3	250
25.2	96.8	122
66.1	253.9	320

143 549 692

143 549 692

✓	X	250
✓	X	122
X	X	320

143 549 692

only  
2 DF  
have  
not  
5

	1	2	...	J-1	J	
1	✓	✓	...	✓	X	X
2	✓	✓	...	✓	X	X
⋮	⋮	⋮	⋮	⋮	⋮	⋮
I-1	✓	✓	...	✓	X	X
I	X	X	...	<del>X</del>	X	X
	X	X	X	X	X	X

in general,  $\lambda^2$  DF are  $(I-1) \cdot (J-1)$   
 here  $(3-1)(2-1) = 2$