







	Urns and Balls				
Blue Blue Red					
111	(0.9*0.3)*(0.6*0.3)*(0.6*0.7)=0.0204				
112	(0.9*0.3)*(0.6*0.3)*(0.4*0.4)=0.0077				
121	(0.9*0.3)*(0.4*0.6)*(0.3*0.7)=0.0136				
122	(0.9*0.3)*(0.4*0.6)*(0.7*0.4)=0.0181				
211	(0.1*0.6)*(0.3*0.7)*(0.6*0.7)=0.0052				
212	(0.1*0.6)*(0.3*0.7)*(0.4*0.4)=0.0020				
221	(0.1*0.6)*(0.7*0.6)*(0.3*0.7)=0.0052				
222	(0.1*0.6)*(0.7*0.6)*(0.7*0.4)=0.0070				









Urns and Balls							
Blue Blue Red							
111	(0.9*0.3)*(0.6*0.3)*(0.6*0.7)=0.0204						
112	(0.9*0.3)*(0.6*0.3)*(0.4*0.4)=0.0077						
121	(0.9*0.3)*(0.4*0.6)*(0.3*0.7)=0.0136						
122	(0.9*0.3)*(0.4*0.6)*(0.7*0.4)=0.0181						
211	(0.1*0.6)*(0.3*0.7)*(0.6*0.7)=0.0052						
212	(0.1*0.6)*(0.3*0.7)*(0.4*0.4)=0.0020						
221	(0.1*0.6)*(0.7*0.6)*(0.3*0.7)=0.0052						
222	(0.1*0.6)*(0.7*0.6)*(0.7*0.4)=0.0070						





Urns and Balls						
Blue Blue Red						
111	(0.9*0.3)*(0.6*0.3)*(0.6*0.7)=0.0204					
112	(0.9*0.3)*(0.6*0.3)*(0.4*0.4)=0.0077					
121	(0.9*0.3)*(0.4*0.6)*(0.3*0.7)=0.0136					
122	(0.9*0.3)*(0.4*0.6)*(0.7*0.4)=0.0181					
211	(0.1*0.6)*(0.3*0.7)*(0.6*0.7)=0.0052					
212	(0.1*0.6)*(0.3*0.7)*(0.4*0.4)=0.0020					
221	(0.1*0.6)*(0.7*0.6)*(0.3*0.7)=0.0052					
222	(0.1*0.6)*(0.7*0.6)*(0.7*0.4)=0.0070					



















## What's to Be Learned?

- Lots of stuff
  - Search heuristics
  - Game evaluation functions
  - Probability tables
  - Declarative knowledge (logic sentences)
  - Classifiers
  - Category structures
  - Grammars

CSCI 5582 Fall 2006



























Training Data							
#	F1 (In/Out)	F2 (Meat/Veg)	F3 (Red/Green /Blue)	Label			
1	In	Veg	Red	Yes			
2	Out	Meat	Green	Yes			
3	In	Veg	Red	Yes			
4	In	Meat	Red	Yes			
5	In	Veg	Red	Yes			
6	Out	Meat	Green	Yes			
7	Out	Meat	Red	No			
8	Out	Veg	Green	No			









