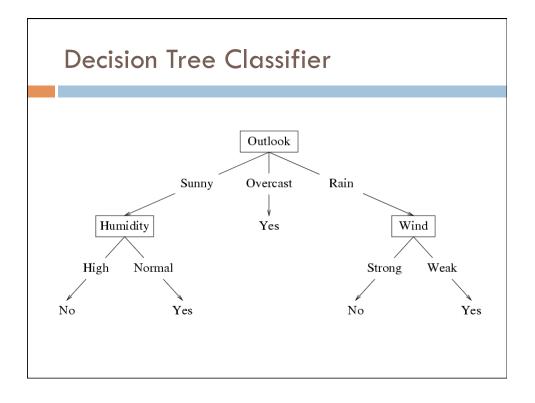
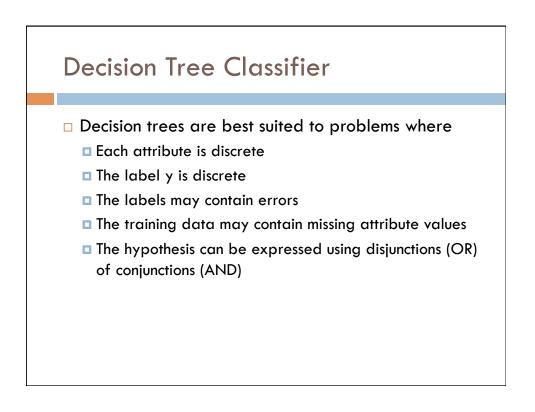


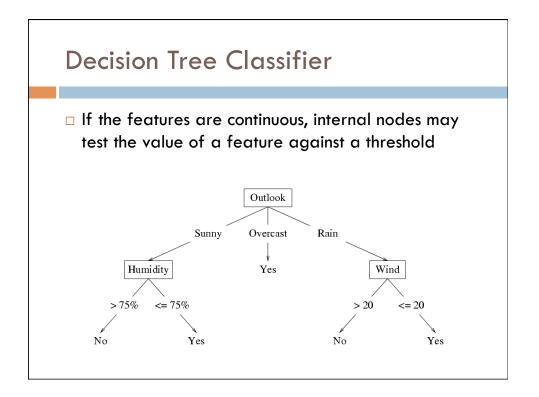


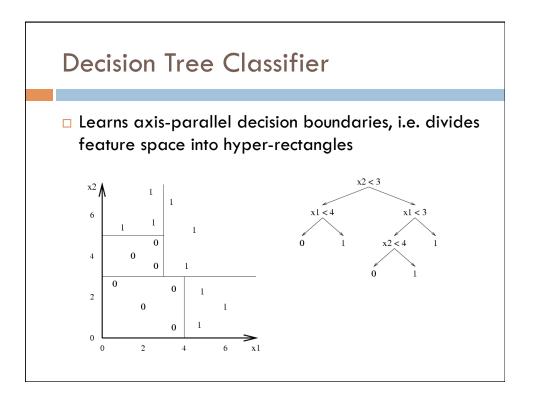
- □ Guest lecture at HMC on NLP!
- □ Same time as our class 1:15-2:30pm
- □ Location is Big Beckman B126
  - Big Beckman is in basement of Olin Science Center
  - Head down middle stairs in Olin

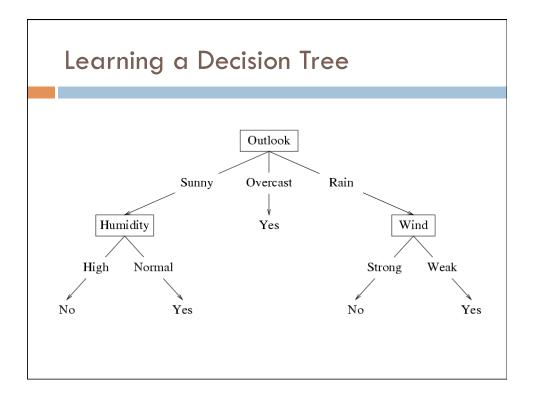
Deci	sio	n Tree	e Cl	assifie	er		
$ \begin{array}{c} \mathbf{x}_1 \longrightarrow \\ \mathbf{x}_2 \longrightarrow \\ \mathbf{x}_3 \longrightarrow \end{array} $	D1 D2 D3 D4 D5 D6 D7 D8 D9 D10 D11 D12	Outlook Sunny Sunny Overcast Rain Rain Overcast Sunny Sunny Rain Sunny Overcast Overcast Qvercast Rain	Hot Hot Hot Cool Cool Cool Mild Cool Mild Mild Mild	High Normal Normal Normal Normal Normal	Weak Strong Weak Weak Strong Strong Weak	PlayTennis No No Yes Yes No Yes No Yes Yes Yes Yes Yes Yes No	

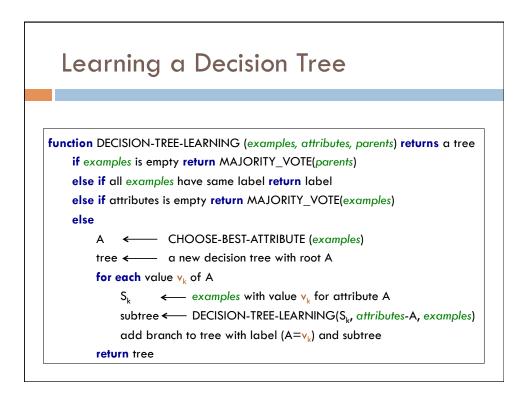


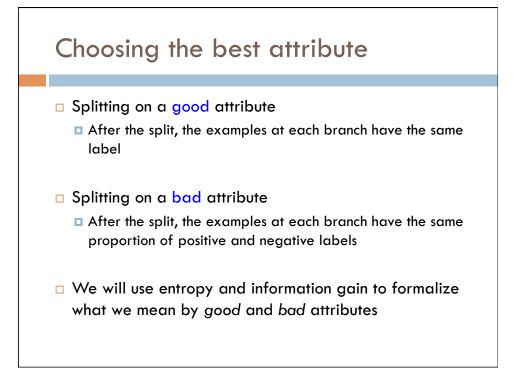


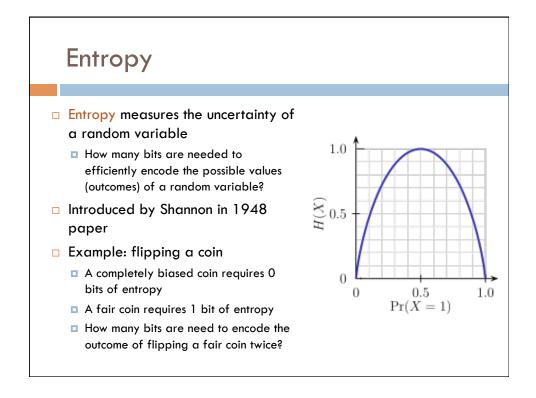












Entrop	ру	and	Info	orma	tion	Gain	)
Gain(S, A	$) \equiv 1$	Entropy(	(S) -	$v \in Values($	$A) \frac{ S_v }{ S }$	Entropy(S	 
	Dav	Outlook	Temp	Humidity	Wind	PlayTennis	
	Day D1	Sunny	Hot	High	Weak	No	
	D2	Sunny		High			
	D3	Overcast					
	D4	Rain	Mild	High		Yes	
	D5	Rain	Cool	Normal		Yes	
	D6	Rain	Cool	Normal	Strong	No	
	D7	Overcast	Cool	Normal	Strong		
	D8	Sunny	Mild	High	Weak	No	
	D9	Sunny	Cool	Normal	Weak	Yes	
	D10	Rain	Mild	Normal	Weak	Yes	
	D11	Sunny	Mild	Normal	Strong	Yes	
	D12	Overcast	Mild	High	Strong	Yes	
	D13	Overcast	Hot	Normal	Weak	Yes	
	D14	Rain	Mild	High	Strong	No	