

PROBABILISTIC CYK PARSING

Book the flight through Houston

S :.01, VP:.1, Verb:.5 Nominal:.03 Noun:.1	None	S:.05*.5*.054 =.00135 VP:.5*.5*.054 =.0135	None	
	Det:.6	NP:.6*.6*.15 =.054	None	
		Nominal:.15 Noun:.5	None	
			Prep:.2	

S → NP VP 0.8
 S → X1 VP 0.1
 X1 → Aux NP 1.0
 S → book | include | prefer
 0.01 0.004 0.006
 S → Verb NP 0.05
 S → VP PP 0.03
 NP → I | he | she | me
 0.1 0.02 0.02 0.06
 NP → Houston | NWA
 0.16 .04
 NP → Det Nominal 0.6
 Nominal → book | flight | meal | money
 0.03 0.15 0.06 0.06
 Nominal → Nominal Noun 0.2
 Nominal → Nominal PP 0.5
 VP → book | include | prefer
 0.1 0.04 0.06
 VP → Verb NP 0.5
 VP → VP PP 0.3

Aux → does
 1.0
 Det → the | a | that | this
 0.6 0.2 0.1 0.1
 Pronoun → I | he | she | me
 0.5 0.1 0.1 0.3
 Verb → book | include | prefer
 0.5 0.2 0.3
 Noun → book | flight | meal | money
 0.1 0.5 0.2 0.2
 Proper-Noun → Houston | NWA