

Lin Ochoa CS381

Homework 2

Write up

Natural Language Processing

#1.1

Positive prior probability: 0.4
Negative prior probability: 0.6

pos	neg
0.09	0.16
I	
0.07	0.06
always	
0.29	0.06
like	
0.04	0.15
foreign	
0.08	0.11
films	

2.33856e-06 positive probability
5.7024e-06 negative probability
negative is greater

#1.2

action 0.0535714285714
comedy 0.0634920634921
comedy is the answer

#2

Errors

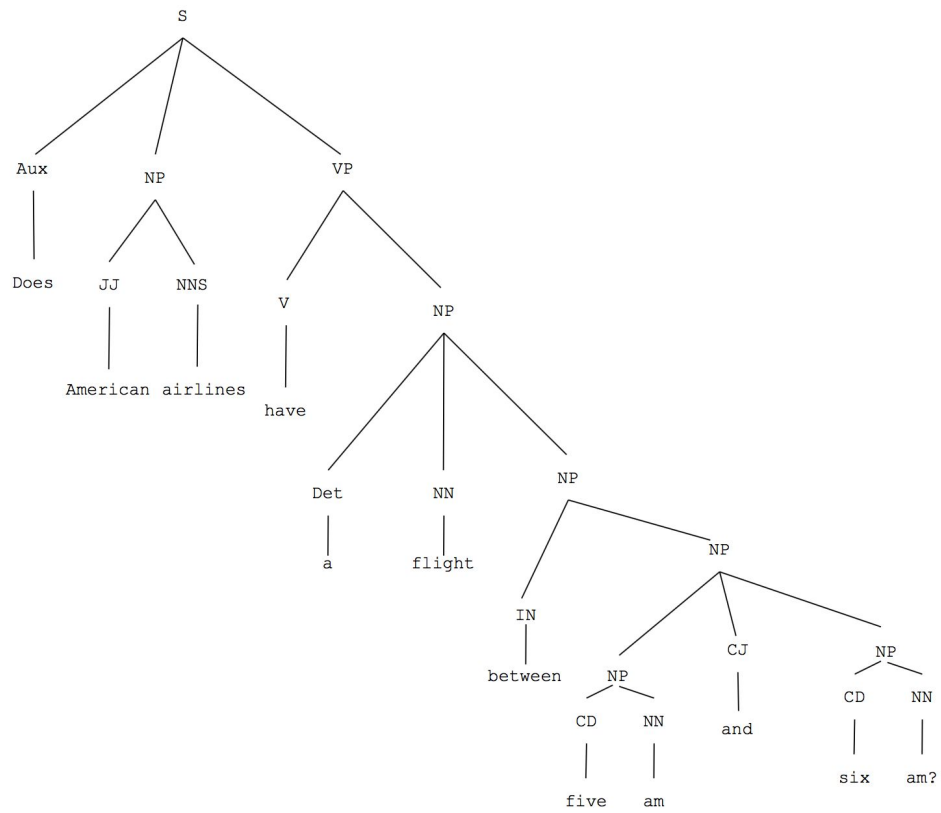
10.1

1. Atlanta/NN
2. dinner/NNS
3. have/VB
4. afternoon/NN

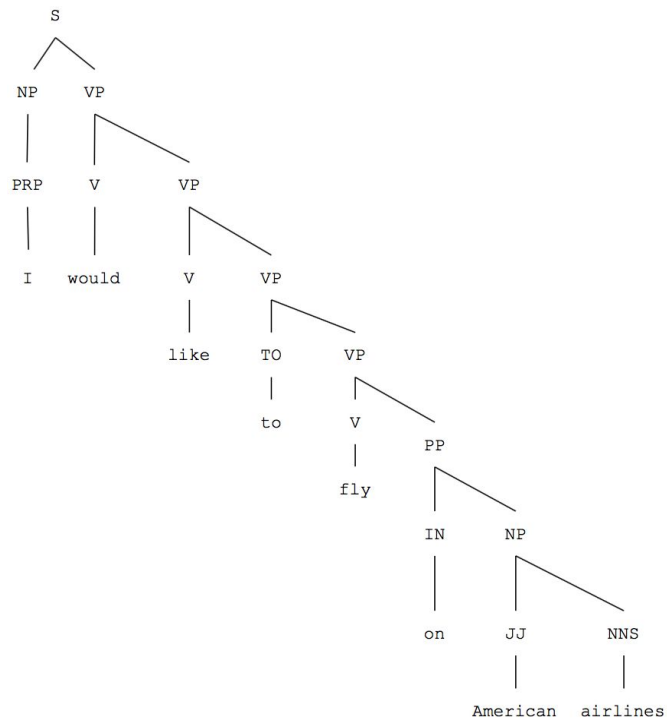
#3

Parse Trees

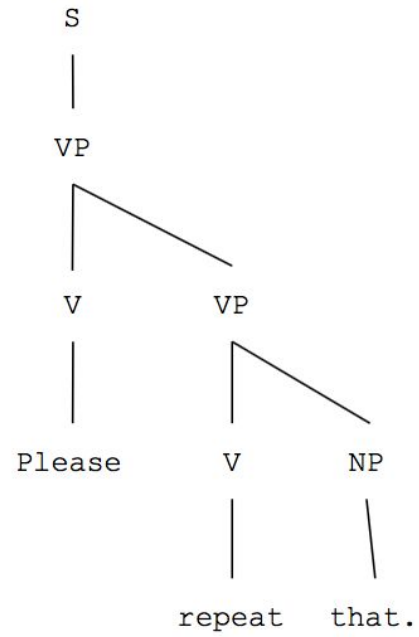
1. Does American airlines have a flight between five a.m. and six a.m.?



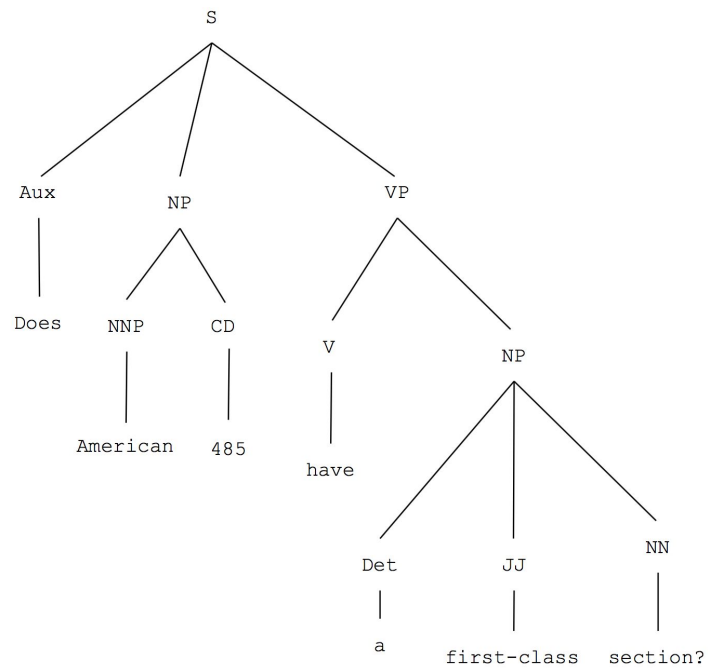
2. I would like to fly on American airlines.



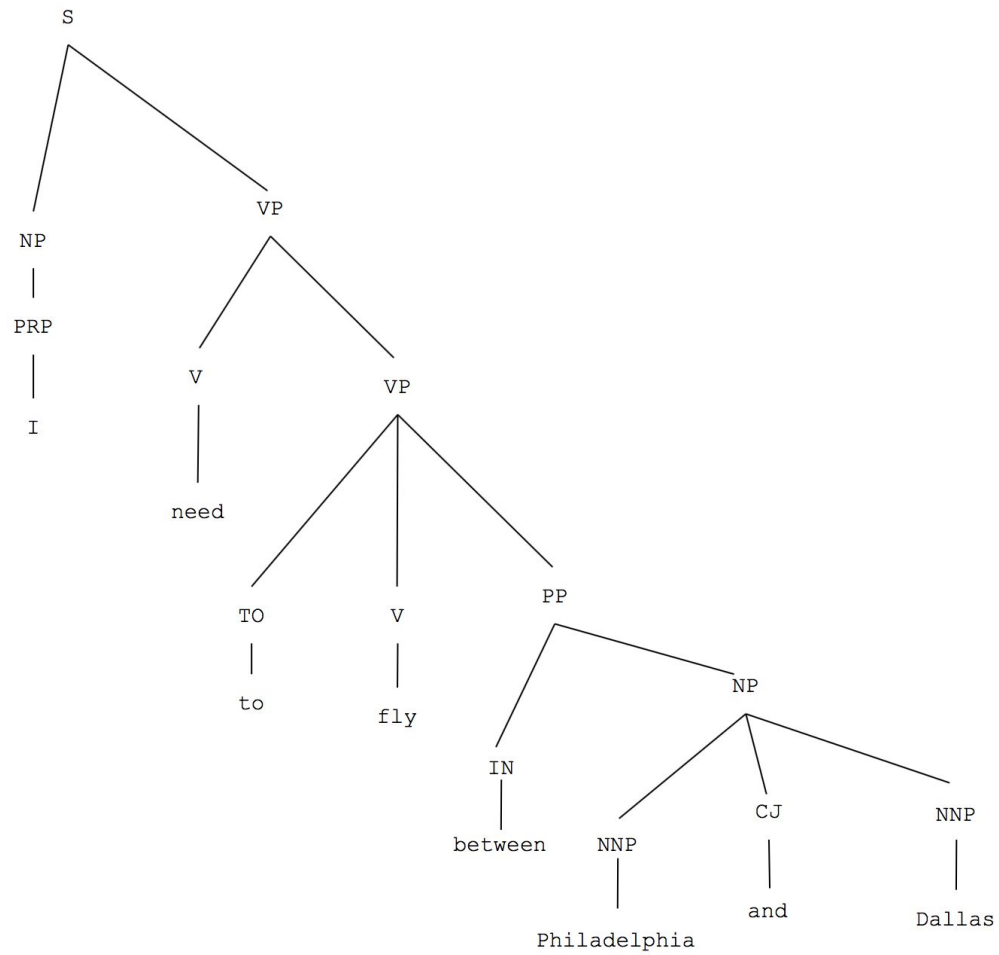
3. Please repeat that.



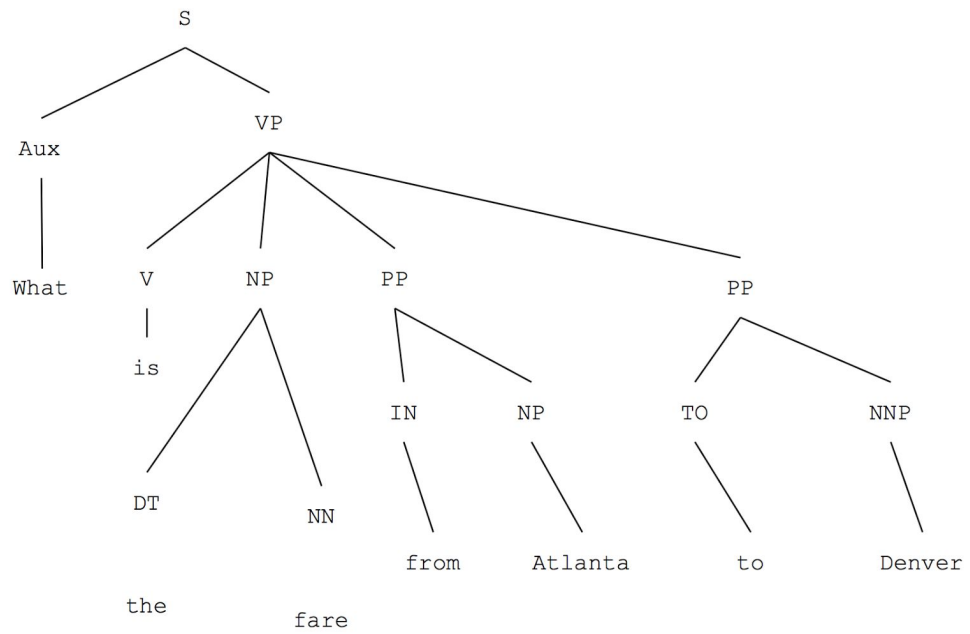
4. Does American 487 have a first-class section?



5. I need to fly between Philadelphia and Atlanta.



6. What is the fare from Atlanta to Denver?



7. Is there an American airlines flight from Philadelphia to Dallas?

