Due Date: Tuesday 4/26, at the beginning of class.

0. Phrase Structure Rules

(0)  
S → NP VP  
VP → V (NP) (NP) (PP)  
NP → (Det) (A*) N (PP)  
NP → { Name | Pro }  
PP → P NP

1. Verb Particle Constructions

(a) For each underlined string of words in (1–8), is it a constituent or not? Explain how you know in detail, making sure to run more than one of the constituency tests in each case. Show me the relevant data you are using to run the tests.

(b) For each of the sentences (1′–8′) on the right, if it is bizarre mark it with a ‘#’ sign at the front. Let's assume that the sentences on the right are created by starting with the structures on the left and then moving the prepositions (up, off, over) to the end of the sentence.

Now, state a generalization that predicts when this movement is possible, based on your observations about constituency in part (a). In other words, you are trying to complete the sentence “It is possible to move the preposition to the end of the sentence only if __________.”

(Note: You should only count the movement as possible if the version on the right is a natural English sentence that means the same thing as the version on the left.)

(1) He called up the mountain.  
(1′) He called the mountain up.

(2) He called up the mayor.  
(2′) He called the mayor up.

(3) She looked up the driveway.  
(3′) She looked the driveway up.

(4) She looked up the number.  
(4′) She looked the number up.

(5) They dropped off the package.  
(5′) They dropped the package off.

(6) They dropped off the ledge.  
(6′) They dropped the ledge off.

(7) You ran over my dog.  
(7′) You ran my dog over.

(8) You ran over a mile.  
(8′) You ran a mile over.

(c) Draw trees for sentences (1) and (2) above, following the phrase structure rules in (0). Which of these trees accurately represents the constituent structure of the sentence?

(d) Extra Credit: If you think one of the trees you drew in (c) is not an accurate representation of the constituent structure, attempt to draw a more reasonable tree for that sentence.

(Note: This doesn’t have to follow the phrase structure rules above.)