LING:3010 – Homework 2

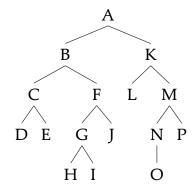
Oliver Emery

27 February 2022

Exercise 1: Structural Relations in the Tree

13 pts

Look at the tree below and answer the questions about the relations in the tree shown there. For those True/False, indicate whether the statement is True or False.



- 1. List all the nodes c-commanded by K.
- 2. List all the nodes c-commanded by J.
- 3. List all the nodes c-commanded by A.
- 4. List all the nodes c-commanded by D.
- 5. List all the nodes c-commanded by P.
- 6. The node I precedes K here.
- 7. The nodes L and F are sisters.
- 8. The node L c-commands F.
- 9. The node B c-commands C.
- 10. The set {H, I, J} is a constituent here.

- B, C, D, E, F, G, H, I, J
- G, H, I
- Ø
- E
- N, O **True** / False
- True / False
- True / False
- True / False
- _ /_ 1
- True / False

Explain why the following sentences are ungrammatical. For each sentence, say what the binding domain of the NP causing the problem is, whether it is c-commanded by its binder (antecedent), and name the binding condition that is violated.

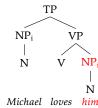
binding domain: the clause (TP) containing the NP (anaphor, pronoun, or R-expression)

a) *Michael_i loves him_i.

Michael loves him domain

[$_{NP}$ Michael] c-commands [$_{NP}$ him] c-command

pronoun must be free in its binding domain condition



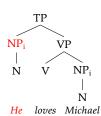
b) *He; loves Michael;.

domain He loves Michael

[NP Michael] does not c-command [NP he] c-command

binder must c-command bindee condition

pronoun must be free in its binding domain



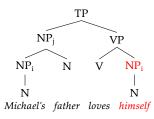
c) *Michael_i's father_i loves himself_i.

Michael's father loves himself domain

[$_{NP}$ Michael] does not c-command [$_{NP}$ himself] c-command

binder must c-command bindee condition

anaphor must be bound in its binding domain

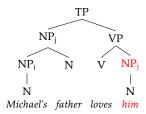


d) *Michael_i's father_i loves him_i.

Michael's father loves him

[$_{NP}$ Michael's father] c-commands [$_{NP}$ him] c-command

pronoun must be free in its binding domain



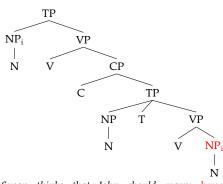
e) *Susan; thinks that John should marry herself;.

John should marry herself

[NP] Susan c-commands [NP] herself c-command

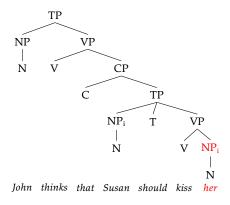
anaphor must be bound in its condition

binding domain



Susan thinks that John should marry

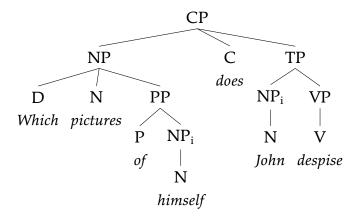
f) *John thinks that Susan_i should kiss her_i.



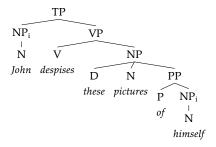
What problem(s) does the following sentence raise for the binding theory as we have sketched in this chapter? Think of a solution that could explain why this sentence is grammatical. It's ok to speculate and think of more than one potential explanation. Hint: consider the non-question form of this sentence *John despises these pictures of himself*. (Another hint: one possible solution can relate to one of the possibilities explored in Crain and Nakayama's paper we read).

(1) Which pictures of himself_i does John_i despise?

Assume the following tree for this sentence:



- The given tree breaks currently established PS-rules for CPs expected $CP \rightarrow (C) TP$ encountered $CP \rightarrow NP C TP$
- The given tree contradicts our current defition of binding, which requires the binder to ccommand the bindee.
- The given tree violates **Binding Principle A**, which states that an anaphor must be bound in its own binding domain.



After examing the non-question form of the given sentence, I think the only problem with binding theory that this example reveals is the definition of **binding domain**. Primarily, I believe that this is an example of some sort of syntactical restructuring to signify a question unrelated to binding; maybe [NP] Which pictures of himself has some sort of dependence relationship to [NP] John despise. I think this restructuring may alter the definition of not only **binding domain**, but the definitions of some of the structural relations between tree nodes as well.

Using the tests you have been given in chapter 6 (reordering, adjacency, conjunction of likes, *one*-replacement) determine whether the PPs in the following NPs are complements or adjuncts. Use at least 3 tests for each PP. Give the examples that you used in constructing your tests. Some of the NPs have multiple PPs. Be sure to answer the question for every PP in the NP.

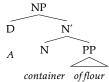
a) A container [of flour]

Reordering

- (1) A container [of flour] [beside the dumpster]
- (2) *A container [beside the dumpster] [of flour]

Conjuction of Likes

- (3) A container [of souls] and [of flour]
- (4) *A container [beside the dumpster] and [of flour]



One-replacement

(5) The one of flour

I believe that (5) can be grammatical, but many do not. [$_{PP}$ of flour] can be neither reordered nor conjoined with known adjunct [$_{PP}$ beside the dumpster]. Thus, [$_{PP}$ of flour] is a complement.

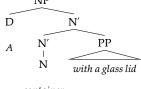
b) A container [with a glass lid]

Reordering

- (1) A container [with a glass lid] [abaft the deckhouse]
- (2) A container [abaft the deckhouse] [with a glass lid]

Conjuction of Likes

- (3) *A container [with a glass lid] and [of heroin]
- (4) A container [with a glass lid] and [betwixt those junkies]



container

One-replacement

(5) The one with a glass lid

[PP with a glass lid] can be reordered with other PPs, can be conjoined with adjuncts but not complements, and can stand next to the word *one*; it is an adjunct.

c) The collection [of figurines] [in the window]

Reordering

- (1) *The collection [in the window] [of figurines]
- (2) The collection [in the window] [along the sill]

Conjuction of Likes

- (3) *The collection [of figurines] and [in the window]
- (4) The collection [of figurines] and [of marsupials]
- (5) The collection [under the bed] and [in the window]

$\begin{array}{c|c} & NP \\ \hline D & N' \\ \hline The & N' & PP \\ \hline N & PP & in the window \\ \hline collection & of figurines \\ \end{array}$

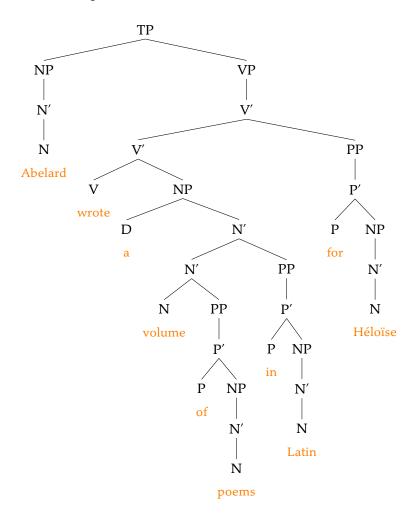
One-replacement

- (6) The one [in the window]
- (7) *The one [of figurines] [in the window]

[$_{PP}$ of figurines] is a complement: it cannot be reordered (1), it can be combined with other complements (4) but not adjuncts (3), and it cannot stand by one (7). Examples (2), (3), (5), and (6) show that [$_{PP}$ in the window] is an adjunct.

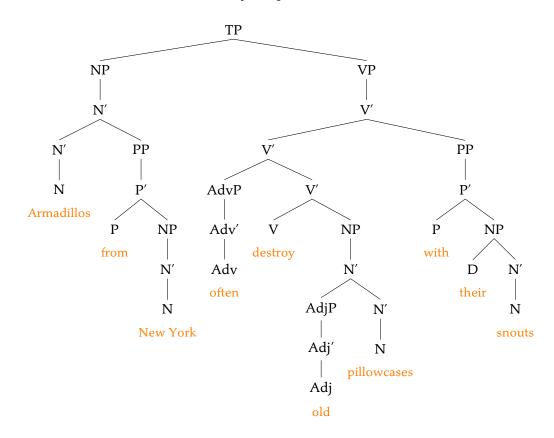
Draw the X-bar-theoretic trees for the following sentences.

a) Abelard wrote a volume of poems in Latin for Héloïse.

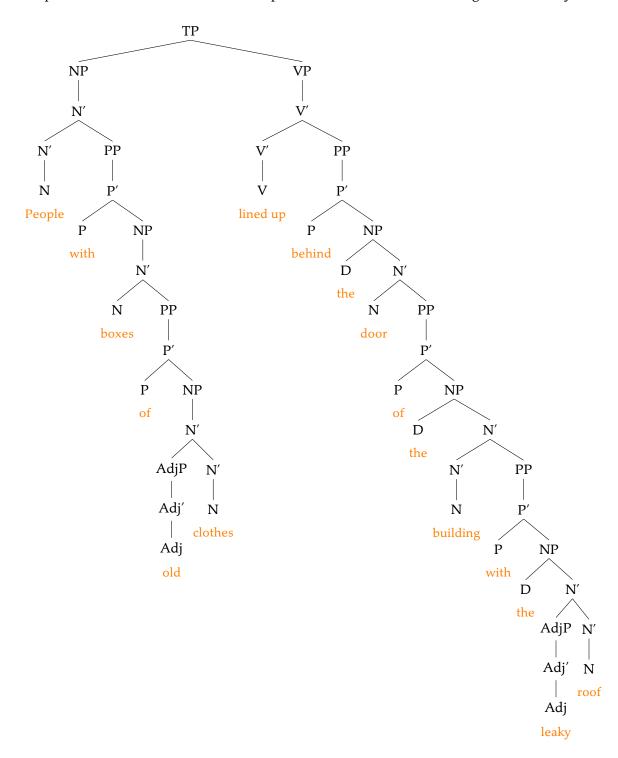


In addition to the position shown in the tree as an adjunct of [NP] a volume of poems, [NP] in Latin can be an adjunct of either [NP] poems or [NP] wrote a volume of poems for Héloïse.

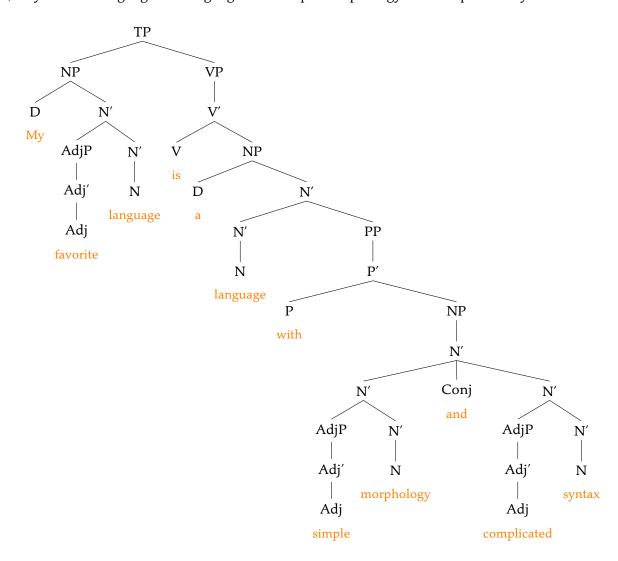
b) Armadillos from New York often destroy old pillowcases with their snouts.



c) People with boxes of old clothes lined up behind the door of the building with the leaky roof.



d) My favorite language is a language with simple morphology and complicated syntax.



e) The collection of syntax articles with the red cover bores students of syntax in Tucson.

