Assignment 3

L614

Due Tuesday, February 24

1. Take your FTAG grammar sketch from last time and convert it to LFG. In addition to providing the grammar fragment, give me a brief report on what was easy and what was difficult in the conversion, i.e., which things does TAG make easy and which things does LFG make easy?

2. From Carnie 2013: Draw the annotated c-structures and f-structures for the following sentences. (It may also be helpful to write out lexical entries for each of the words detailing the information each word contributes):

(a) Susie loves the rain.
(b) Joan thinks that Norvin is likely to write a paper.
(c) What have you read?

3. Here is some data from Chicewa in LFG.1 Here are your lexical entries:

   (1) a. zi-na-wa-lum-a V \(\uparrow\)pred = 'bite<subj,obj>'
        (\(\uparrow\)subj pred) = 'pro'
        (\(\uparrow\)subj nounclass) = 10
        (\(\uparrow\)obj pred) = 'pro'
        (\(\uparrow\)obj nounclass) = 2

   b. zi-na-lum-a V \(\uparrow\)pred = 'bite<subj,obj>'
        (\(\uparrow\)subj pred) = 'pro'
        (\(\uparrow\)subj nounclass) = 10

   c. njuchi N \(\uparrow\)pred = 'bees'
        (\(\uparrow\)nounclass) = 10

   d. alenje N \(\uparrow\)pred = 'hunters'
        (\(\uparrow\)nounclass) = 10

And here are your rules:

(2) a. \(S \rightarrow (NP),(NP),(VP)\)
      (\(\uparrow\)subj) = \(\downarrow\)
      (\(\uparrow\)topic) = \(\downarrow\)
      \(\uparrow\) = \(\downarrow\)

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1Example adapted from Dalrymple, Mary (2001), *Lexical-Functional Grammar.*
b. \( VP \rightarrow ( V ) ( \text{NP} ) \)
\[ \uparrow = \downarrow \quad (\text{OBJ}) = \downarrow \]

From these lexical entries and rules, give the final c-structure and f-structure for the following sentences:

(3) a. njūchi zi-na-wa-lum-a
   bees SUBJ-PAST-OBJ-bite-INDICATIVE
   ‘The bees bit them.’

b. zi-na-lum-a
enumbe SUBJ-PAST-bite-INDICATIVE hunters
   ‘They bit the hunters.’

c. zi-na-wa-lum-a
enumbe SUBJ-PAST-OBJ-bite-INDICATIVE hunters
   ‘They bit them, hunters.’

4. In LFG, we saw that coordination is handled by sets—two objects form another, hybrid object which has its own values.

   (a) Propose an LFG analysis of unlike coordination, as in:

   (4) Kim is a Republican and proud of it.

   (b) Propose an LFG analysis of non-constituent coordination, as in:

   (5) Marcel proved and you disproved the theorem

Defend your analyses.