# LING567 Lab 2 Write-up

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### Word Order

The basic word order of Finnish is primarily SVO. The following sentences from my illustrate the phenomenon:

(1) a. Opiskelija tykkää tomaatista student-NOM like-PRES tomato-ELAT The student likes tomatoes

I simplified the lexical entries for these words, in that there is no case system built into the grammar yet. Nominals that appear in the subject position occur in the **nominative** case, and nominals that appear in the object position of a verb such as *tykata* (*to like*) appear in the **elative** case. The grammar currently overgenerates, however, and will create a sentence such as:

(2) a. \*Tomaatista tykkää opiskelija tomato-ELAT like-PRES student-NOM Tomatoes like a student

Elative nominals don't appear in the subject position. That sentence would really translate to something like In the tomatoes opinion, he/she likes a student, except the 3rd person pronoun  $(h\ddot{a}n)$  is missing before tykata, so even that pragmatically-ill-formed meaning doesn't get generated.

Intransitive verbs are just SV, of course:

(3) a. Opiskelija kavelee student-NOM walk-PRES the student is walking

Determiners precede nouns, as in the following examples:

(4) a. Tämä opiskelija tykkää tomaatista this student-NOM like-PRES tomato-ELAT This student likes tomatoes b. Opiskelija kavelee tuolla kadulla student-NOM walk-PRES that-ADES road-ADES The student walks on that road

This last example illustrates a more complicated aspect of Finnish grammar, namely the agreement between cases in the object position. Both *tuo* and *katu* agree in case, which is the **adessive** case here.

#### Determiners

Finnish nominals don't require any overt determiners as is illustrated in the previous examples. *Opiskelija* (in the nominative case, as shown), for instance, means *the student* when in the subject position, and *a student* when in the object position. Two determiners (at the very least) do exist in Finnish, though, that can be attached to nominals in the nominative case: *tuo* (that, demonstrative), and *tämä* (this, demonstrative). They function according to their English translations, that is to say *tuo opiskelija* clearly translates to *that student*, while *tämä tomaatti* translates to *this tomato*.

Based on the recommendations in the lab directions, I assigned the PRED values to the two determiners my lexicon currently has that most closely matched their English translates. For *tuo* (that) I assigned the PRED value of 'distal+dem\_q\_rel, while for *tämä* (this) I assigned the PRED value of 'proximal+dem\_q\_rel.

#### Determinerless NPs

Determiners in Finnish are not obligatory and only seem to serve a demonstrative function. The nominative form of nouns based on their position in a sentence contain their own determiner-like semantic information. Because of this semantic information, creating a determinerless NP rule is essential to parsing Finnish sentences.

(5) a. Opiskelija tykkää tomaatista student-NOM like-PRES tomato-ELAT The student likes tomatoes

This sentence illustrates the definite nature of the noun in the subject position, *opiskelija* (student). However, if the noun appears in the object position, it becomes indefinite. This is only for nominals in their nominative forms, however, as the example shows, an elative form of a nominal that follows provides a more indefinite meaning.

I created subtypes of the detless-np rule, nom-detless-np and elat-detless-np, to account for the difference in definiteness based on the positions of the nominals in the sentence (subject or object positions).

#### A spurious result

The sentence *\*tomaatista tykkAA opiskelija* (tomatoes like a student) is being parsed. This is an incorrect sentence, as elative case nominals can't appear in the subject of a sentence. Something that needs to be added to fix this is a differentiation in the subj rule so that certain things don't appear in subj (like elative NPs).

I tried to add a differentiation mechanism, but specifying specific subtypes were ruling out grammatical sentences and undergenerating. At this point in the time grammar is overgenerating, but by very little.