CAS LX 522 Syntax I

Week 6a. Case and checking (with a little more θ -Theory)

Previously, in LX522...

- We were talking about θ-roles, the "argument slots" that predicates (e.g., verbs) have. These are the "roles" that the participant play in the event.
- As part of their *lexical entry*, verbs have a list of θ-roles that they assign, a list of required participants.
 - Kick: Agent, Theme
 - Jog: Agent
 - Introduce: Agent, Theme, Goal

Common thematic relations

- Agent: initiator or doer in the event
- Theme: affected by the event, or undergoes the action
 - Bill kicked the ball.
- Experiencer: feel or perceive the event
 Bill likes pizza.
- Goal:
 - Bill gave the book to Mary. (Recipient)
- Proposition: a statement, can be true/false.
 - Bill said that he likes pizza.

The θ-criterion

- The θ-criterion:
 - every θ -role in the θ -grid is assigned to exactly one argument.
 - every argument is assigned exactly one θ-role.
- The second half protects us against superfluous arguments. But it's hard to evaluate this if we don't know what an argument is.
 - It's hard to say, actually. There are some further concepts that we should have before we can even start to state this accurately. For now, let's just suppose that DPs and CPs are necessarily arguments, and PPs usually aren't.



Johnⁱ gave [the book]^j [to Mary]^k.



Theta Grids				
 The θ-roles in the theta grid are obligatory. (Optional things like <i>on the hill</i> are not in the θ-grid). 				
give	Source/Agent	Theme	Goal	1
0	i	j	k	
 Adjuncts are related to the verb via thematic relations (e.g., instrument, location, etc.), but an adjunct does not get a θ-role. They are optional. 				





The EPP

- With the Theta Criterion in our toolbox, let's take a look at a special kind of sentence (which will turn out to tell us something important about syntax).
 - It rained.
 - It snowed.
- How many θ-roles does rain assign?
- If we think about *it*, it doesn't really mean anything at all. It is not a participant in the event; it really *can't* be getting a θ-role. (cf. also Spanish).

The EPP

• So, the theta grid for *rain* really looks like this:

The EPP

- Given the θ-Criterion and the fact that *rain* doesn't have any θ-roles to assign, what's *it* doing there? And why doesn't *it* violate the θ-Criterion?
- As to the first question, the conclusion that syntacticians have come to is that the *it* is there due to a separate constraint, which goes by the name EPP.

The EPP

• The EPP IP must have a specifier.

- More informally, all clauses have subjects.
- Because *rain* has no arguments (no θ-roles), a special, contentless pronoun (*it*) has to be inserted to in order to have a grammatical sentence. This kind of "empty *it*" is called an *expletive* or a *pleonastic* pronoun. It is not an argument (in this use).
- We stipulate that *it* is not subject to the θ-criterion.

Features and Case

- Recall that pronouns in English have several Case forms, indicating their grammatical function (subject, nonsubject):
 - Nominative (subject): He, she, they, ...
 - Accusative / objective (non-subject): Him, her, them, ...
- But what's wrong with *Him left?





Specifier features

- To encode this requirement, we posit a second type of feature on the lexical items of category I: the *specifier features*.
- Specifier-features are *requirements*; they are features that must be found in the specifier.
- If I has a [+Nom] specifier feature, SpecIP (the specifier of IP) must have a [+Nom] feature.











Features

- Lexical items have three kinds of features.
 - Head features: Primary features...
 - **Specifier features:** Uninterpretable features that must be checked against the features of the specifier (at last projecting Merge).
 - **Complement features:** Uninterpretable features that must be checked against the features of the complement (at first projecting Merge).

Head features

- Interpretable: Fundamental to the meaning, crucial to interpreting the meaning of the structure
 - [3sg] on pronouns, [D] on determiners
- Uninterpretable: Not part of the meaning, but nevertheless part of the lexical item. Must be eliminated (checked off) by the end of the derivation.
 - [+Nom] on determiners, [+Nom] on I, [3sg] on auxiliaries





Back to θ -theory?

- We started off looking at *argument requirements* that verbs impose, in terms of their θ-grids, the θ-roles that they need to assign.
- Can we think of these in terms of complement and specifier features?
 - Pat kicked the ball.
 - Pat slept.

Details...

- Trying to encode the Agent θ-role as a specifier feature brings up a complication: The Agent is in SpecIP, not SpecVP, so how would a specifier feature of V be checked?
 - (We don't want Agent to be a specifier feature of I, because not all subjects are agents—it depends on the specific verb).

Percolation?

- Radford introduces a concept called **percolation** to handle problems like this. If V has a specifier feature that is not checked off before its last projection (VP), the requirement is "passed up the tree" to the next head (I), and becomes a requirement of I.
- Using this, we *could* say that if V has an Agent specifier feature, it can be passed up to I and satisfied by having an Agent in SpecIP.
- For now (these two weeks), we will assume this is what happens. After the midterm, we'll see that we don't really need percolation.

Clarification/preview

• Although they seem to be doing the same thing so far, let me stress:

Case and θ-roles are not the same thing.

- Case marks structural position in the tree.
- θ-roles are assigned to participants in an event.

Case $\neq \theta$ -role

- After the midterm, we will look at how to handle these, but notice:
 - Active: I pushed him.

 - **Passive:** He was pushed. **Masc3sg is the Theme (\theta-role) in both cases, but the object (Objective / Accusative Case) in the active form, and the subject (Nominative Case) in the passive form** form.
- Also:
 - The door opened. (Door=Nom, Theme)I opened the door. (Door=Acc, Theme)

