CAS LX 522 Syntax I CP & PRO (8.1-8.2.5)

Types of sentences

Sentences come in several types. We've mainly seen declarative clauses.

I) Horton heard a Who.

- But there are also questions (interrogative clauses)...
 - 2) Did Horton hear a Who?3) Who did Horton hear?
- ...exclamatives...

4) What a crazy elephant!

- ...imperatives...
 - 5) Pass me the salt.

Declaratives & interrogatives

- Our syntactic theory should allow us to distinguish between clause types.
- The basic content of Phil will bake a cake and Will Phil bake a cake? is the same.
- Two DPs (*Phil*, nominative, and *a cake*, accusative), a modal (*will*), a transitive verb (*bake*) that assigns an Agent θ-role and a Theme θ-role. They are minimally different: **one's an interrogative**, and **one's a declarative**. One asserts that something is true, one requests a response about whether it is true.

Clause type

- Given this motivation, we seem to need one more category of lexical items, the **clause type** category.
- We'll call this category **C**, which traditionally stands for **complementizer**.
- The hypothesis is that a declarative sentence has a **declarative C** in its structure, while an interrogative sentence (a question) has an **interrogative C**.

Embedding clauses

- The reason for calling this element a **complementizer** stems from viewing the problem from a different starting point.
- It is possible to **embed** a sentence within another sentence:
 - I) I heard [Lenny retired].
- And when you embed a declarative, you generally have the option of using the word *that*.
 - 2) I heard that [Lenny retired].
- So what is that that?

What's that?

- We can show that *that* "belongs" to the embedded sentence with constituency tests.
 - I) What I heard is that Lenny retired.
 - 2) *What I heard that is Lenny retired.
- There's a demonstrative *that*, but that's not what *that* is.
 - 3) *I heard this Lenny retired.
- So, *that* is its own kind of thing. It's an introducer of embedded clauses, a **complementizer**.

Complementizers

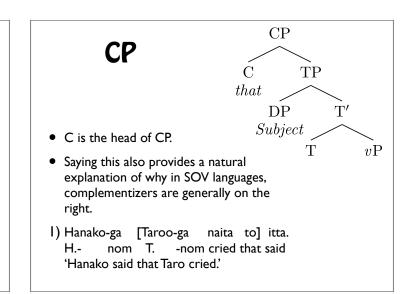
- There are a couple of different kinds of complementizer. That is for embedding declarative sentences.
 - I) I understand that Alton dislikes unitaskers.
- It's also possible to embed an interrogative sentence, like so:
- 2) I wonder if Alton dislikes unitaskers.
- 3) I wonder whether Alton dislikes unitaskers.
- Here, if and whether serve as complementizers, introducing the embedded interrogative.
 - I wonder about the answer to Does Alton dislike unitaskers?

Selection

- Just like the verb dislikes takes the DP unitaskers as its object, some verbs take <u>clauses</u> as their object.
- Some verbs specify what kind of clause they take:
 - 1) I claimed that Alton dislikes unitaskers.
 - 2) *I claimed if Alton dislikes unitaskers.
 - 3) *I wondered that Alton dislikes unitaskers.
 - 4) I wondered if Alton dislikes unitaskers.
- This is a matter of **selection**. Some verbs select for declaratives, some verbs select for interrogatives. Some verbs can take either, some neither.
 - 5) I know that Alton dislikes unitaskers.
 - 6) I know if Alton dislikes unitaskers.
 - 7) *I washed that Alton dislikes unitaskers.
 - 8) *I washed if Alton dislikes unitaskers.

• So, we have lexical items like *that* and *if*, which are complementizers (category: C), and have a value for clause type.

- that [C, clause-type:decl, ...]
- if [C, clause-type:Q, ...]
- Where is it structurally? We know it forms a constituent with the clause it introduces. We know that verbs can select for different kinds of C. The natural conclusion is that it is a sister to TP, at the top of the tree, which projects.



that or not that

- C specifies the clause type; *that* indicates a declarative clause. Why then are both of these good?
 - I) Jack claimed that Jill fell.
 - 2) Jack claimed Jill fell.
 - In French, Spanish, probably most other languages you don't have the option to leave out the C.
 - J'ai dit qu' elle était malade l've said that she was ill 'I said that she was ill'
 - 4) *J'ai dit elle était malade
 - Claim doesn't embed interrogatives.
- 5) *Jack claimed if Jill fell.
 - So Jill fell is declarative in Jack claimed Jill fell.

Ø

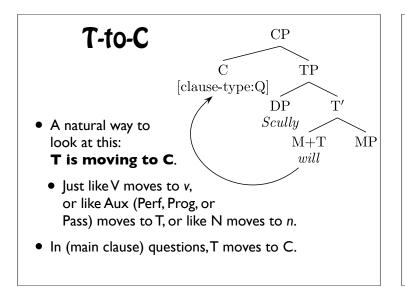
- Where does that leave us?
 - I) Jack claimed Jill fell
- Claim only takes declarative complements.
- Jill fell is declarative.
- Clause type is a feature of C.
- Thus: There is a declarative C. You just can't hear it.
- English has two declarative complementizers. One is *that*, one is Ø. In most cases, either one works equally well.

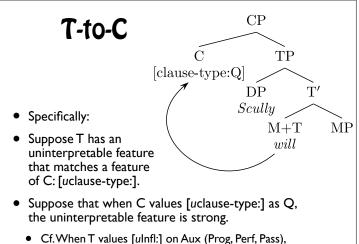
Jill fell is a declarative

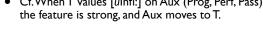
- But hold on a minute. Jill fell, just as its own sentence (not embedded) is also declarative.
 - Cf. Did Jill fall?
- So, we'll suppose that since the function of C is to mark clause type, there's a C in simple sentences as well.
- The C that heads the whole structure has somewhat special properties. Declarative C in that position is never pronounced. Interrogative C is not pronounced as a word, but makes its presence known by causing movement.

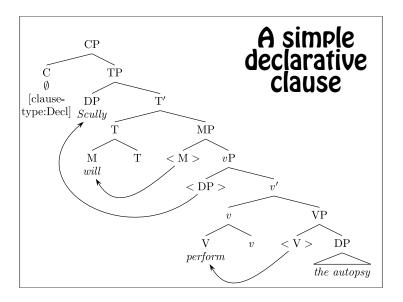
SAI in YNQs

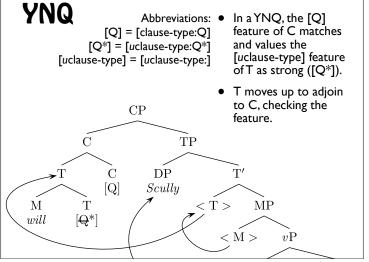
- In yes-no questions, the subject and auxiliary "invert" (Subject-Auxiliary Inversion):
 - I) Scully will perform the autopsy.
 - 2) Will Scully perform the autopsy?
- Assuming everything we've got so far:
 - T has a [*u*D*] (EPP) feature to check, so *Scully* is in SpecTP.
 - The question is an interrogative.
 - (Unpronounced) C is to the left of TP.
- So what must be happening in yes-no questions?

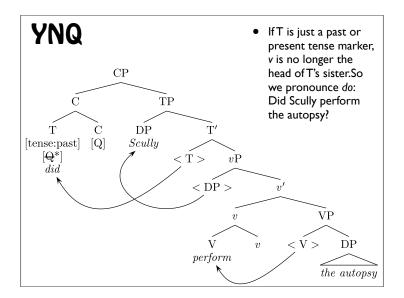












Embedding questions

- So, you can embed declaratives and you can embed questions
 - I) I heard (that) Jill fell.
 - 2) I asked if Jill fell.
- Notice that the main clause is different:
 - If the topmost C is interrogative, we get SAI. If the topmost C is declarative, it is pronounced Ø.
 - If an embedded C is declarative, it can be pronounced either as Ø or as *that*. If an embedded C is interrogative, C is audible (*if*) and no SAI.
- So, T moves to C only in main clause interrogatives. [uclause-type:] is strong only when valued as Q by a main clause C.

Nonfinite clauses

- Some verbs embed finite declaratives, as we have seen: I heard (that) Jill fell.
- There are other verbs that embed **nonfinite** clauses. These come in a few types, but we'll start with the *try* type.

I) Scully tried to perform the autopsy.

• This is two clauses: Scully tried something, and what it was was to perform the autopsy.

θ -roles

- I) Scully performed the autopsy.
- 2) Scully tried to perform the autopsy.
- The verb *perform* has an Agent and a Theme, here *Scully* and *the autopsy*, respectively.
- The verb try also has two θ-roles, an Agent (the one trying) and a Theme (the thing attempted). Suppose that the Theme of try is [to perform the autopsy] here.

θ -roles

- I) Scully performed the autopsy.
- 2) Scully tried to perform the autopsy.
- In the second sentence, *Scully* is both the one trying and, if you think about it, the one performing the autopsy. The same individual is the Agent of both.
- Agent θ-roles are assigned to the DP that is Merged into SpecvP.
- **However:** You are not allowed to assign two different θ-roles to the same DP. Otherwise, it should be possible for *Scully admires* to mean *Scully admires herself*.

PRO

- I) Scully tried to perform the autopsy.
- So, we have something of a problem here. We need an Agent DP in the vP for *perform*, and an Agent DP in the vP for *try*. But it appears as if there is only one DP around, *Scully*.
 - What to do? Once again gritting our teeth, we resolve ourselves to the fact that we need two DPs and can only see one— therefore, there must be a DP we can't see.
- The DP we can't see, we call **PRO**.

Control

I) Scully tried [PRO to perform the autopsy].

- PRO is a DP that is the Agent of *perform*, *Scully* is a DP that is the Agent of *try*.
- It is impossible to actually pronounce an Agent for perform.

2) *Scully tried [Mulder to perform the autopsy].

- The PRO Agent of *perform* must be interpreted as being the same person as the Agent of *try*.
 - PRO is a little bit like an anaphor in this respect; this fact is similar to the fact that *herself* in *Scully admires herself* must refer to *Scully*.
- This obligatory co-reference goes by the name **control**. *Scully* **controls** PRO. Sentences with PRO in them are often called **control clauses**.

PRO

- So why is it impossible to say this?
 - *Scully tried [Mulder to perform the autopsy].
- The answer we'll give is that nonfinite T (to) does not have a case feature.
- Finite T has a [nom] feature which matches, values, and checks the [case] feature of the subject, checking itself in the process.
- Nonfinite T has no case feature at all, so *Mulder* would be left with its case unchecked.

Null case

- As for PRO, it is a DP so it has a [case] feature. If *Mulder* can't get its case checked by the nonfinite T, how does PRO get its case checked?
- A standard (and perhaps less than completely elegant) way to look at this:
 - PRO is special, it can only "show up" with "null case" ([ucase:null]).
 - Null case is special, it is only allowed on PRO.
 - **Control clauses are special**, they are introduced by a null C that has a [null] case feature, which can check the [case] feature on PRO.

Try

- So, try embeds a nonfinite CP, headed by the special null C with the [null] case feature.
- In turn, the subject must be PRO, in order to successfully check that feature of C.
 - If the [case] feature of any other DP is valued and checked as [null], the derivation crashes: only PRO can have null case.
- The embedded clause must be nonfinite (T can't itself have a [nom] feature).
 - If the [nom] feature of T checks the [case] feature of the subject, nothing is left to check C's [null] feature.

