CAS LX 522 Syntax I

14

CP & PRO (8.1-8.2.5)

Types of sentences

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

) Horton heard a Who.

But there are also questions (interrogative clauses)...

- 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:

l) 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.

- 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 understand that Alton dislikes unitaskers.

It's also possible to embed an interrogative sentence, like so:

- 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:

- I claimed that Alton dislikes unitaskers.
- 2) *I claimed if Alton dislikes unitaskers.
- 3) *I wondered that Alton dislikes unitaskers.
- 1 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.

C

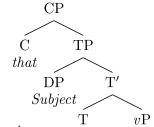
So, we have lexical items like *that* and *if*, which are complementizers (category: C), and have a value for clause type.

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.

CP



C is the head of CP.

Saying this also provides a natural explanation of why in SOV languages, complementizers are generally on the right.

Hanako-ga [Taroo-ga naita to] itta.
H.- nom T. -nom cried that said
'Hanako said that Taro cried.'

that or not that

C specifies the clause type; that indicates a declarative clause. Why then are both of these good?

- 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.
- 3) 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?
 -) 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 Iill 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):

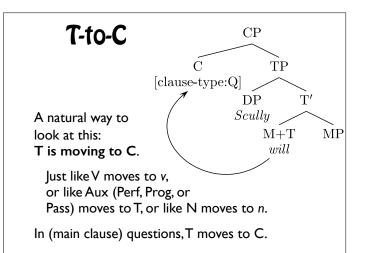
- Scully will perform the autopsy.
- 2) Will Scully perform the autopsy?
- Assuming everything we've got so far:

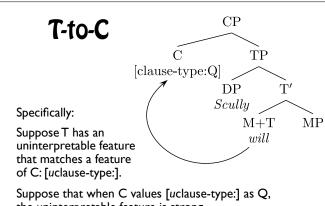
T has a $[uD^*]$ (EPP) feature to check, so Scully is in SpecTP.

The question is an interrogative.

(Unpronounced) C is to the left of TP.

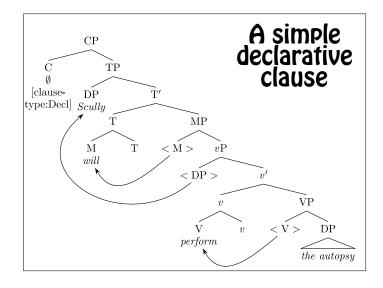
So what must be happening in yes-no questions?

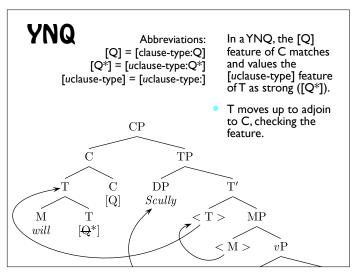


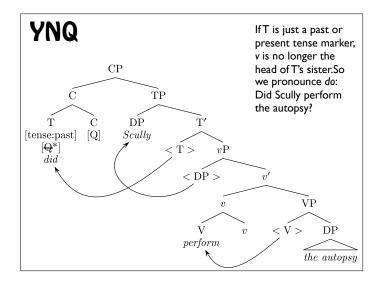


the uninterpretable feature is strong.

Cf. When T values [uInfl:] on Aux (Prog, Perf, Pass), the feature is strong, and Aux moves to T.







Embedding questions

So, you can embed declaratives and you can embed questions

- l) 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 \varnothing .

If an embedded C is declarative, it can be pronounced either as \emptyset 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. [uclausetype:] 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) |ill fell.

There are other verbs that embed **nonfinite** clauses. These come in a few types, but we'll start with the *try* type.

Scully tried to perform the autopsy.

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

H-roles

- 1) 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.

0-roles

- 1) 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

1) 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

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.

Trs

- 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.

