

СР

The thread here (chapter 8) is motivating and making use of the CP level of our structure:

C is the home of the [clause-type:...] feature, differentiating interrogatives and declaratives.

C is sometimes available to check case on the subject when it can't be checked the higher verb (ECM) or finite T:

• I want [Ø_{NULL} PRO to see more syntax]

• I intended [for her to win the lottery].

We'll see more for CP as we explore question formation but first, we'll see it at work in German...

V2 languages

There are a number of languages that are classified as "verb second" or "V2" languages. They are so called because in general the (tensed) verb must be second, after the first major constituent in the sentence.

De man heeft een boek gezien gisteren. (Dutch) the man has a book seen yesterday 'the man has seen a book yesterday.'

een boek heeft de man gezien gisteren.

gisteren heeft de man een boek gezien.

Die Kinder haben diesen Film gesehen. (German) the children have this film seen 'The children have seen this film.'

Diesen Film haben die Kinder gesehen.

Analyzing V2

How can we account for this?

 Assume that in German, most things are very similar to English:

The UTAH is the same (Agents in SpecvP, etc.)

The EPP is the same (T has a $[uD^*]$ feature; there needs to be a DP in SpecTP)

Things to remember:

French/Irish and English differ in whether v moves to T.

Irish and French/English differ in whether the subject moves to SpecTP.

In English yes-no questions (but not in declaratives), T moves to C.



Analyzing V2

Since the finite verb is sometimes to the left of the subject:

Diesen Roman las ich schon letztes Jahr this book read I already last year 'I read this book already last year.'

Just like it is in English YNQs:

• Will I get an A?

We can suppose that German and English differ in that when C values the [uclause-type:] feature of T, it is *always* strong.

 In fact, more natural sounding than what we have to say in English:When C values [uclause-type:] as [Q] (but not [Decl]) it's strong.

Reminder: T. v. and (u(nfl:) **V2** languages Topics The way our system works (movement happens in order to check strong uninterpretable features), we implement this as The basic idea we'll be pursuing with respect to V2 languages is this: follows: To get the tensed verb higher than the subject (which is Because the verb moves to T, we need there to be a strong sometimes is), we move the verb to T, and then T (with the verb) feature checked between T and v. The constituent that appears first in a V2 clause to C. This is common cross-linguistically. Recall French, where the is generally considered to be a topic. To put C into "second position", we move some phrase into highest verbal head (the v, or an auxiliary) moves to T. SpecCP. Suppose that C has a "topic" feature [utop*] This explained why verbs always precede and whatever is the topic of the sentence (be it TPThe "first phrase" in V2 languages is generally interpreted as the adverbs and negation in French. an adverb, the subject, the object) is also topic of the sentences. Since the [tense] feature of T values the [uInfl:] feature of CPmarked with an (interpretable) [top] feature. So, we say that the $v\mathbf{P}$ T topic (whatever it is [past] the highest verbal head, we Then this will work just like the EPP, essentially. DP going to be) has a feature say that in French, when [tense] VP diesen Roman that marks it as such: values [uInfl:], the feature is [top] C+T+V+vŤΡ An interpretable [top] feature. strong. $[uInfl:past^*]$

Reminder: v to T

So, v starts out with a [uInfl:] feature.

- v always starts out with a [ulnfl:] feature.
- We Merge T, and the [tense] feature (e.g., [past] = [tense:past]) matches and values the [ulnfl:] feature.
- What differentiates French and English is that when [tense] values [ulnfl:], the valued [ulnfl:] feature is strong.
- In English, it is not strong except in one case: if the [uInfl:] feature is one an auxiliary (Perf, Prog, Pass), then a [uInfl:] feature valued by [tense] is strong.

negation and adverbs,

main verbs do not.

Auxiliaries precede



TP

VP

Reminder: Strong features

Strong features are uninterpretable features that can be checked only when ${\bf local} \ {\bf to} \ (a \ sister \ of)$ the feature that checks them.

- Strong features very often = something must move.
- A feature gets to be strong in one of two ways:
 - An inherently strong feature of the lexical item.
 v has a strong [uV*] feature.
 - T has a strong [uD*] feature.
 - eat (V) has a strong $[uD^*]$ feature (associated with the Theme θ -role).
 - A feature that becomes strong when valued.
 - Prog has a weak [ulnfl:] feature.When valued by [tense], it becomes strong. (In English, Aux moves to T: I am not eating green eggs & ham)
 - T has a weak [uclause-type:] feature. When valued by [clause-type:Q], it becomes strong. (In English, T moves to C in questions: Would you eat them on a train?)



V2 languages

- To account for the fact that v moves to T and then T moves to C in German: a feature that C values on T is valued as strong.
- [uclause-type:] is a perfect candidate.
- So, when [uclause-type:] is valued by C in German, it is valued as strong, and so T moves to C.



V2 languages

- To account for the fact that the topic moves into SpecCP, we say that C has a [utop*] feature. Whatever is the topic in the sentence will have a feature designating that, [top].
- Just like the EPP feature ([uD*]) of T forces the subject into SpecTP, the [utop*] feature of C will force movement of the topic into SpecCP.



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Interlude: what we're doing

Remember, what we're doing is trying to describe our **knowledge of language**.

- We believe that the intricacies of human language are actually too complicated to *learn*, that we're in fact describing a kind of system that is genetically "builtin", sort of like our vision system.
- If that's the case, the same system must underlie all human languages, and the differences must be relatively minor.
- We're identifying a few "parameters of variation" ways in which human languages can differ.

Interlude: what we're doing

 What we're saying here is that languages can differ in a few small respects, and we can account for that:

Headedness: heads come before complements in some languages (English), and after complements in others (Japanese, German).

Verb-raising: some languages move v to T (French), others don't. (Under what conditions does T value [ulnfl:] as strong?)

V2: some languages move v all the way to C (through T), and topicalize something, yielding the V2 pattern. (Under what conditions does C have a [utop*] feature and value [uclause-type:] as strong?)

EPP: VSO languages seem to move *v* up to T, but don't move the subject to SpecTP, yielding VSO. (Does T have a [*u*D*] feature?)

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?
- Who did Horton hear?
- ...exclamatives...
- What a crazy elephant!
- ...imperatives...
- Pass me the salt.

<u>Wh</u>-questions

 $Wh\mbox{-}questions$ are "information-seeking" questions, involving a $wh\mbox{-}word.$

Who, what, when, where, why, HoW, which

• What will they bake?

Observe that what is basically the object of bake. And look how far away it is from bake, the thing that assigns it a θ -role.

Cf also. "echo questions": I drank WHAT?

Also, notice that T has moved to C here too (like it does in yes-no questions).

(wh)

Wh-words are a little bit like pronouns, standing in for whatever category of thing we'd like information about.

These interrogative expressions are different from non-interrogative pronouns and demonstratives.

• *That will they bake.

What, where, when are differentiated from that, there, then in being interrogative. This is a feature of the whword: [wh].



Which [wh, D]

How are <u>wh</u>-questions formed?

What we have in English *wh*-questions is like a limited form of V2.

The analysis of wh-questions is the same:

The T head moves to C

The wh-expression moves to SpecCP

Let's suppose that the reason/mechanism moving T to C is the same as in yes-no questions: We have an interrogative C, with [clause-type:Q].When the [uclause-type:] feature of T is valued by [Q], it is strong.



What will they bake? The complementizer C has the information C'about clause-type, and this is a question.As [Q]before with yes-no $\overline{\rm DP}$ questions, we assume that this C has the they MP feature [clause-type:Q] (or "[Q]" for short). M < M >vP Т will[uclause-type:Q*] As with yes-no questions, the [uclause-< DP >type:] feature of T is strong when valued by Q. ý bake





What will they bake?

T will move to check the (now strong) [uclause-type:Q*] feature. What moves to SpecCP and checks the [uwh*] feature of C.



Interrogative Q vs. Declarative Q

Looking at *wh*-questions as compared to yes-no questions, it looks as if there are two kinds of interrogative C:

"yes-no" C: [C, clause-type:Q] wh-question C: [C, clause-type:Q, uwh*]

This is in fact often supposed in the syntax literature—

and many languages seem to have a special particle reserved for yes-no questions (e.g., English if, Mandarin ma)

Adger notes a problem, however: Nothing in our system so far prevents us from using a yes-no C with a *wh*-word, predicting:

• Will they bake what?

Dee Accordingly, Adger proposes that there's a *wh*word even in "yes-no questions". • There are actually other reasons to think this as well, but we'll get to them later. That is Will they bake cookies? is actually something pretty close to: Whether will they bake cookies?

except with a "silent" whether, called Op.



Summary so far

- In wh-questions such as What did they bake?
- What is like a pronoun, standing in for the theme.
- Wh-words are differentiated by having a [wh] feature.
- The structure of a *wh*-question is like a V2 clause:
- T moves to C:

The [uclause-type:] feature of T is strong when valued as Q.

The *wh*-word moves to SpecCP:

The interrogative C has a strong uninterpretable [*u*wh*] feature.