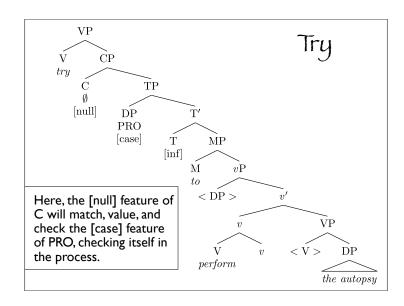
CAS LX 522 Syntax I

Raising, etc. (8.2.6-8.4)

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Reminder: Try

- 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.

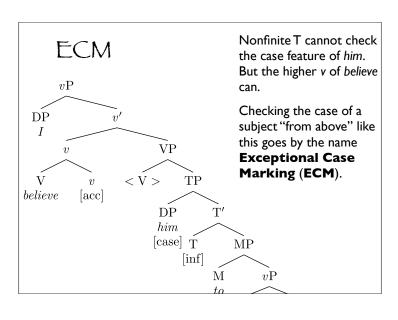


Believe

- Another place where nonfinite clauses can be embedded is under the verb believe.
 - I) I believe [him to be innocent].
- Here, we have an accusative subject, and a nonfinite T that is not capable of checking case.
- How is the (accusative) case of him checked?
- This relates to the fact that believe can also simply take a DP object:
- 2) I believe him.
- So, how is the accusative case of him checked here?

ECM

- The idea is that believe (actually the v that combines with the V believe) has an [acc] feature that can check the case of him in I believe him.
- Suppose that *believe* can either have a DP **or a TP** as its complement.
- What do we expect?



Arranging to leave

- A somewhat similar phenomenon occurs with verbs like arrange.
 - 1) Harry arranged for Tom to leave MI-5.
- Here, we have:
 - Nonfinite T, which cannot check case.
 - An overt subject (Tom) in the accusative.
 - The word for, which we classify as C.
- For, as a P, checks accusative case (He baked a cake for her). If the C for also has an [acc] feature, it could check the [case] feature on Tom.

Arranging to leave

- Arrange-type verbs can take a CP complement.
 - I) Harry arranged for Tom to leave MI-5.
- Notice that it is also possible to say
 - 2) Tom arranged PRO to leave MI-5.
- But this is expected.
 - Nonfinite T, cannot check case.
 - The null C with [null] case can check the case of PRO.
 - An overt subject can't get null case:
 *Harry arranged Tom to leave MI-5.
 - PRO cannot get anything but null case:
 *Tom arranged for to leave MI-5.

Summary

- Complementizers indicate clause type (that/Ø for declaratives, if/whether for interrogatives).
- Some verbs embed clauses. Finite clauses are always CPs.
- Some verbs can embed nonfinite clauses, some embedding TP and others embedding CP.
 - Believe (expect, ...) embed TP and check accusative case (ECM verbs).
 - Try (want, ...) embed CP. This can either be:
 - C[null], checking null case on PRO.
 - for[acc], checking acc case on an overt subject. Not all verbs allow this option (want does, try doesn't).

Sentences inside sentences

- So, to recap: embedded sentences.
- Embedded sentences can be finite:
 - 1) Shannon claimed [that she could catch a fish].
- Or nonfinite:
 - 2) Michael wants [PRO to leave].
 - 3) Jin wants [Michael to return the watch].
 - 4) Sun arranged [for him to return the watch].

Embedded clauses

- Embedded finite clauses are CPs, with a complementizer (that or \emptyset).
 - 1) Shannon claimed [CP that she could catch a fish].
 - 2) Shannon claimed [$_{CP}$ Ø she could catch a fish].
- Embedded nonfinite clauses have to as T, and can be CPs or bare TPs— the distinction is determined by case properties of the verb.
 - 3) Michael wants [CP ØNULL PRONULL to leave]
 - 4) Jin wants_{ACC} [TP Michael_{ACC} to return the watch].
 - 5) Sun arranged [CP for ACC him ACC to return the watch].
- Nonfinite T does not assign case, so the subject must get case (have its [case] feature checked) in some other way.

Seems

- Now, we'll turn to another kind of embedded nonfinite clause.
 - Charlie seems [to dislike bees].
- This looks a little bit like:
 - Charlie tried [to sneak away].
- Which is really:
 - Charlie tried [PRO to sneak away].
 - Charlie is the Agent of try.
 - PRO (=Charlie) is the Agent of sneak.
- So, what about Charlie seems to dislike bees?
 What θ-roles go to Charlie?

<u>Charlie</u> seems to receive (just) one θ-role

- Seems can also embed a finite clause, so consider the pair:
 - 1) Charlie seems to dislike bees.
 - 2) It seems that Charlie dislikes bees.
- The it in the second sentence is the same it we find in lt rained. lt does not get a θ -role, because rain doesn't have any θ -roles. We only have it there because sentences need subjects (EPP:T has a $[uD^*]$ feature).
- So what θ -roles does seem assign?

Seem seems to assign (just) one θ -role.

- What seem (and appear) mean when paired with an embedded sentence is that the proposition expressed by the embedded sentence appears true.
- There's only one participant in a seeming, the Proposition.
 - I) It seems [that seem assigns one θ -role].
- So, seem assigns a Proposition θ-role (structurally, to its sister, the CP daughter of V'), and nothing else (hence, it is needed to check the EPP feature).

Back to Charlie

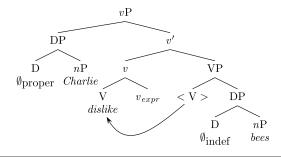
- 1) It seems [that Charlie dislikes bees].
- 2) Charlie seems [to dislike bees].
- These two sentences mean basically the same thing.
- Dislike assigns two θ -roles, we might say Experiencer and Theme.
- It's the same verb dislike in both sentences. So, we presume that the bottom of both trees will look the same...

The [case] feature of *Charlie* is valued and checked by the [nom] feature of T.

The [uInfl:] feature of v is

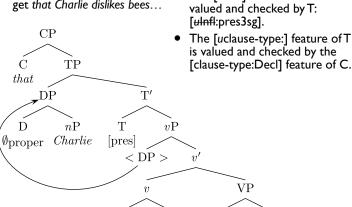
Disliking bees

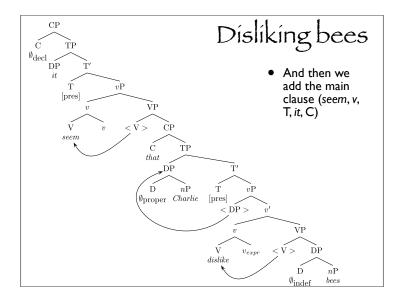
- Starting with It seems that Charlie dislikes bees, we would build a vP that looks like this:
 - V (dislike) assigns a Theme θ -role to the DP bees.
 - $v_{\text{Experiencer}}$ assigns an Experiencer θ -role to the DP *Charlie*.

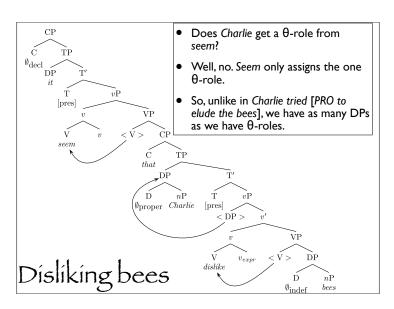


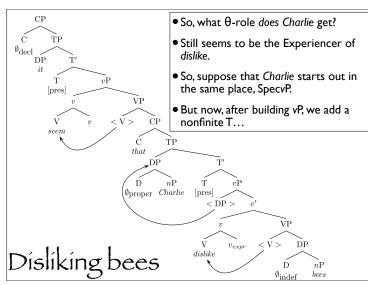
Disliking bees

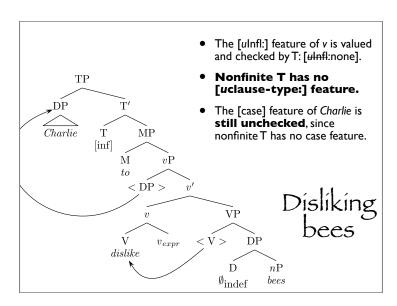
• And then we add T and C to get that Charlie dislikes bees...

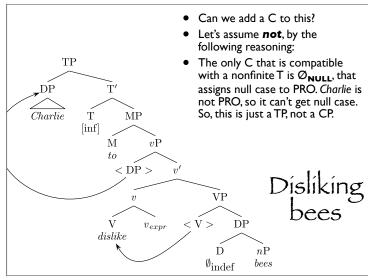


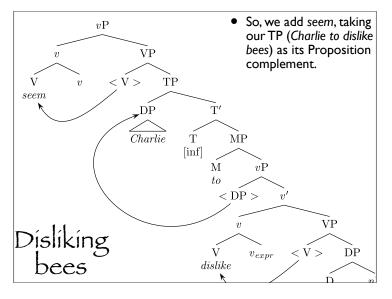


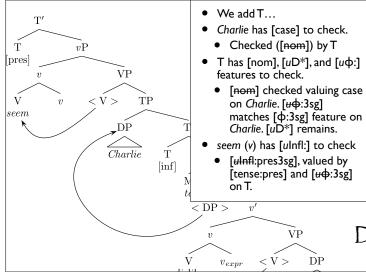


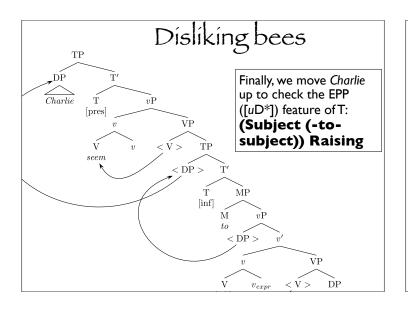












Idioms

- Recall our idea about idioms: For something to have an idiomatic interpretation (an interpretation not literally derivable from its component words), the pieces need to be very close together when initially Merged.
 - I) Ortega took a dive.
- Now, we have idiomatic interpretations here:
 - 2) It seems that the jig is up.
 - 3) It seems that the cat is out of the bag.
 - 4) It seems that the cat has your tongue.

Idioms

- If pieces of the idiom move away after the original Merge, we can still get the idiomatic interpretation:
 - I) [The cat]_i seems t_i to have your tongue.
 - 2) [The cat]_i seems t_i to be out of the bag.
 - 3) [The jig], seems t_i to be up.
- The important thing is that they be originally Merged together (the θ-role needs to be assigned by the predicate to the noun). Compare:
 - 4) [The cat] tried to have your tongue.
 - 5) [The cat] arranged to be out of the bag.
- (What's different? Why no idiomatic meaning?)

Other raising verbs

- So far, we've only talked about seem, but there are a couple of other raising verbs as well.
 - [The cat]_i is likely [TP t_i to be out of the bag].
 - [The cat] appears [TP ti to have his tongue].
 - [The jig]_i proved [TP t_i to be up].
 - [The cat], began [TP t, to get his tongue].
- What these verbs (in this use, anyway) have in common is that they have no external θ -role and an internal Proposition θ -role.

Object control

- One last type of nonfinite complement, those that appear with verbs like *persuade*.
 - 1) Sayid persuaded Kate to stay.
- Once again, we think through the "participants" to get a handle on whether we have enough DPs for the θ -roles.
 - Stay has only one participant, Kate.
 - Persuade has three—the one doing the persuading (Sayid), the one being persuaded (Kate), and the proposition in question ([TP Kate to stay]).
 - So we don't have enough DPs for the job— Kate appears to be playing two roles (one from stay, one from persuade). This sounds like a job for PRO.

Object control

- Sayid persuaded Kate to stay.
- Sayid persuaded Kate [CP ØNULL PRONULL to stay]
- Again we have PRO, as we do in
 - Kate tried [CP ØNULL PRONULL to see]
- But in Sayid persuaded Kate to stay, what "controls" PRO?

Persuasion and promises

- Not all ditransitive control verbs are object control verbs.
 - Though all object control verbs are ditransitives.
 - 1) David persuaded Sherry [PRO to leave]
 - 2) David promised Sherry [PRO to run for office]
 - 3) Chase asked Jack [PRO to be allowed to continue]
 - 4) Chase asked Jack [PRO to get off his case]
 - Whether a verb is a subject control verb or an object control verb is an individual property of the verb. Promise is recorded in our lexicon as a subject control verb, persuade as an object control verb.

ECM verbs

- ECM verbs also take infinitive complements, but with an overt subject (that checks accusative case with the ECM verb).
- Tony found [Michelle to be charming]
 - Tony found [that Michelle was charming]
- Jack expected [Tony to take the day off]
 - Jack expected [that Tony would take the day off]

Raising verbs

- Raising verbs have no Agent/Experiencer in SpecvP, and take a nonfinite complement. The subject of the embedded complement moves into their subject position:
 - Jack seems [< Jack > to be tired]
 - It seems [that Jack is tired]
 - The time appears [<the time> to have expired]
 - It appears [that the time has expired]
 - The President happened [<the P.> to have a pen]
 - It happened [that the President had a pen]

Verb classes in summary

- ECM verbs, e.g., believe, find
 - I believe [TP him to have told the truth].
 - We find [TP these truths to be self-evident]. (or hold)
- Subject control verbs, e.g., attempt, promise
 - Kim_k promised Jack [CP ØNULL PROk to avoid kidnappers].
- Kim_k will try [CP ØNULL PROk to avoid kidnappers].
- Object control verbs, e.g., convince, ask
 - I convinced $\operatorname{her}_{\mathbf{k}} [\mathbf{c_P} \ \emptyset_{\mathbf{NULL}} \ \operatorname{PRO}_{\mathbf{k}} \text{ to drive to work}].$
 - Jack asked $Kim_k [CP \emptyset_{NULL} PRO_k to avoid kidnappers]$.
- Raising verbs, e.g., appear, seem
 - I appear [TP <I> to have missed the bus].
 - Jack seems [TP < Jack > to need a nap].

One more argument for PRO

- Principle A: An anaphor must be bound in its binding domain.
 - Jack hoped [that Kim would explain herself]
 - Jack wanted [Kim to explain herself]
 - *Jack hoped [that Kim would call himself]
 - *Jack wanted [Kim to call himself]
 - Jack hoped [PRO to see Kim]
 - Jack hoped [PRO to exonerate himself]
- Principle B: A pronoun must be free in its binding domain.
 - Jack hoped [that Chase would exonerate him]
 - Jack wanted [Chase to exonerate him]
 - Jack hoped [PRO to exonerate him]

Before we finish embedded clauses..

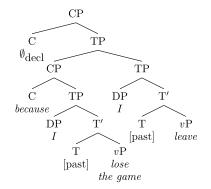
- Embedded clauses can also be modificational adjuncts.
 - Pat ate lunch [PP on the hill]
 [PP by the tree] [PP in the rain].
- To express reasons and times, we also find whole CPs adjoined to our clause:
 - We discussed adjuncts [cp before we finished our discussion of embedded clauses]
 - There's nothing really new here, except the observation that before can have category C.
 - Just like after, while, during, etc.

Adjunct clauses: where do they go?

- Pat cleaned poorly yesterday.
- #Pat cleaned yesterday poorly.
- Pat cleaned poorly [before Chris arrived].
- #Pat cleaned [before Chris arrived] poorly.
- Pat cleaned [before Chris arrived] yesterday.
- Pat cleaned yesterday [before Chris arrived].
- Pat heard that [before Chris arrived] [Tracy cleaned the sink].
- Pat heard [before Chris arrived] that [Tracy cleaned the sink].

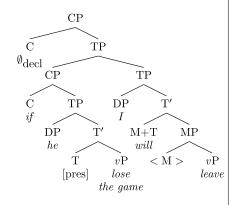
because clauses

- Reason clauses are also clausal adjuncts.
 - Because I lost the game, I left.
 - I left because I lost the game.



if clauses

- If clauses are like because clauses.
 - If he loses the game, I will leave.
 - I will leave if he loses the game.



While thinking about syntax

- Before finishing his homework, Ike watched TV.
- · Finish: transitive (Agent, Theme)
 - Agent: ?
 - Theme: his homework
- Watch: transitive (Agent, Theme)
 - Agent: Ike
 - ▶ Theme: TV
- Ike watched TV is the main clause.
- · Before finishing his homework is a modifier.

While thinking about syntax

- Before finishing his homework, lke watched TV.
- Intuitively, it is lke who was (at least at risk of) finishing his homework.
 - We are not going to have any particular explanation for exactly how the interpretation tied to the subject comes about, but it seems to be.
 - Before he finished his homework, lke watched TV.

While PRO thinking about syntax

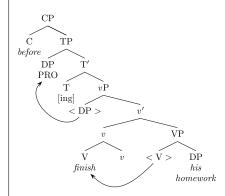
- Before PRO finishing his homework, ...
- This PRO does seem to be controlled by the subject somehow (*While raining, Ike dashed to the store).
- The form *finishing* is not the progressive, it is the present participle, a nonfinite form.

Before PRO finishing...

finish

- T is not finite, so no [tense] feature.
- It is not the infinitive either.
- We'll say this form has the [ing] feature.
- The [ulnfl:] feature of v is matched, valued, and checked by the [ing] feature, resulting in finishing.

Before PRO finishing...

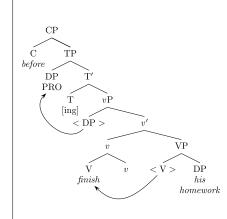


- How does PRO get its case feature checked?
- Some relevant sentences:
- Before he finished his homework, Ike watched TV.
- Before Ike's finishing of his homework, tension was high.

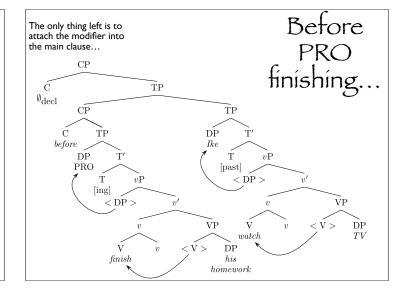
Before PRO finishing...

his

homework



- Given this, the best hypothesis seems to be that the [ing] T also has a [null] feature, checking case with PRO just like finite T checks nominative case with other subjects.
 - [null] = [ucase:null]



On gerunds

- There is yet another form of the verb that shows up with -ing on the end of it in English: the gerund.
- A gerund is basically a verb acting as a noun—we've been looking at this kind of deverbal noun already. One way to tell whether you are looking at a gerund (noun) or not (a verb) is to see whether it is modified by adjectives or adverbs:
 - Before his quick(*ly) cooking of the t(of)urkey...
 - Before quick-*(ly) finishing his homework...