CAS LX 522 Syntax I

 θ -roles in DP, and an introduction to little *n* (7.3-7.6)

Possessors

- Consider the genitive (possessive) 's in English:
 - I) John's hat
 - 2) The student's sandwich
 - 3) The man from Australia's book
 - 4) The man on the hill by the tree's binoculars
- The possessor can be a full DP (inside another DP).
- The 's attaches to the whole possessor *phrase*—it's the man's book and binoculars, not Australia's or the tree's, after all.
- This is not a noun suffix. It seems more like a *little word* that signals possession, standing between the possessor and the possessee. (it's a *clitic*).

Possessors

- It seems to be impossible to have both a 's and a determiner.
 - *The building's the roof
 - The roof of the building
 - *The hurricane's the eye
- Determiners like *the* and the possession marker 's seem to be in complementary distribution—if one appears, the other cannot.
- Compare:

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- 1) The big fluffy pink rabbit 3) *The my rabbit
- 2) *The that rabbit
- 4) *Every my rabbit

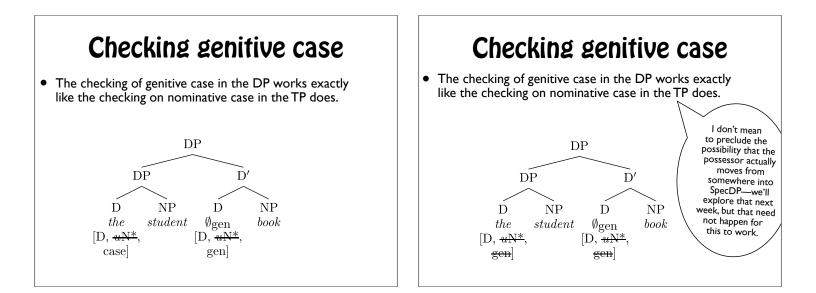
Possessors?

- This suggests a structure like this for possession phrases:
- The possessor DP is in the specifier of DP.And of course, this can be as complex a DP as we like, e.g., the very hungry student of linguistics by the tree with the purple flowers over there......'s book

Possessors and the null D • But what then to do about DPs like his book? Or their book? Here the possessor DP is the genitive case pronoun, and there's no 's. 1) *Their's book 2) *Them's book 3) *They's book Accordingly, we will DP instead suppose that there is a **null D**, \mathcal{O}_{gen} , DP D'that checks genitive case. The genitive case form of a non-NP D D NP pronominal DP is audible the student Øgen book in English, as DP's.

The king's every whim

- I) A whim
- 2) The king's whim
- 3) The king's every whim
- To the extent that every is a D, this indicates two things:
 - The king is to the left of the D; really, the specifier of DP is the only place it could be.
 - The genitive case 's isn't *always* incompatible with an overt D (hence, better to think of 's not as a D but rather as a case marker on the possessor DP). We take this (marked) use of every to be an exceptional overt determiner that can still check [gen].



A couple of null Ds

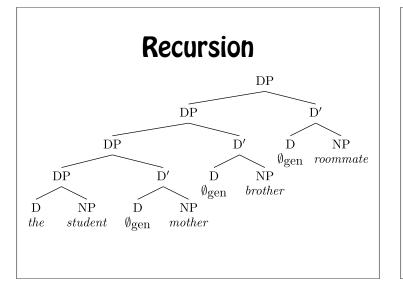
- So we have at this point a couple of different null determiners. They are as different as *the* is from *a* or from *that*, they just happen to be pronounced the same way (like this:"").
- One is Ø_{gen}, which has a [gen] feature and in whose specifier we find possessors.
- Another is \mathcal{Q}_{indef} , which is a nonsingular indefinite article, in whose complement we find plurals and mass nouns.

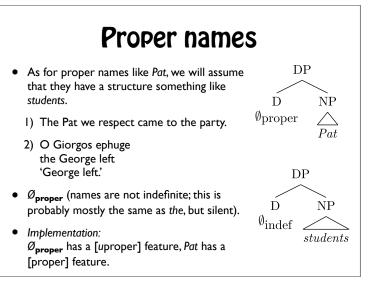
[Øindef Milk] spilled. [Øindef People] cried.

• Mass vs. count: Some nouns indicate countable things (chairs) others indicate stuff (milk). Singular/plural distinctions don't apply with mass nouns.



- Another noteworthy aspect of the possessor phrase is its recursive property.
- The possessor is a DP in the specifier of DP.That means that the DP possessor could have a possessor too...
 - I) The student's father's book
 - 2) The student's mother's brother's roommate



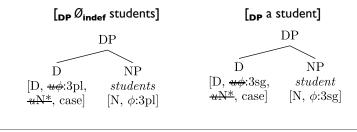


Number agreement on D

- What is wrong with *[DP A students] and *[DP student]? It's a lack of agreement in number. It's like *Students eats lunch.
- We can encode this in the same way: The indefinite determiner has a [uφ:] feature, and the N has φ-features as always (including a num feature).
- The [uφ:] feature is valued and checked by the φ-features of the N.

Number agreement

- This means a and Ø_{indef} are in fact pronunciations of the same D (Like me and I are).
 - A(n) is the pronunciation when it has a [$u\phi$:sg] feature
 - Ø is the pronunciation otherwise



Deverbal nouns

- The structure inside the DP can be as complicated as inside a clause, as it turns out.
 - I) Pat broke the vase.
 - 2) Pat's breaking of the vase startled me.
 - 3) The bees startled me.
- It seems to be possible to convert the whole clause Pat broke the vase into a "noun" (a DP).

Deverbal nouns

- What's more, the relationship between *break*, *Pat*, and *the vase* seems to be the same inside the DP as it is in the clause.
 - I) Pat broke the vase.
 - 2) Pat's breaking of the vase made me angry.
 - Pat is an Agent, the vase is a Theme.
- 3) Pat danced.
- Pat's dancing startled me.
- Just as the verb break assigns θ-roles, it seems as if the nominalized breaking assigns the same θ-roles. The DP is in a way like a little clause.

TPs and DPs

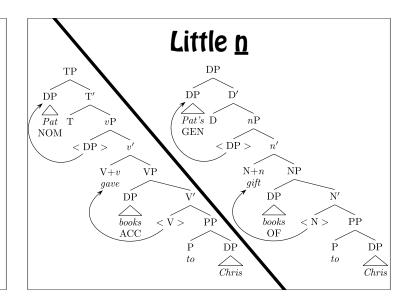
- One difference between clausal DPs and TPs is in the case realized by the arguments.
- I) I called him.
 - Agent is nom (from T), Theme is acc (from v)
- 2) My calling of him was unplanned.
 - Agent is gen, Theme looks like a PP introduced by of.
- So, the case assigners within a DP are different from the case assigners within a clause.

Two kinds of N

- Not all N's assign θ-roles. Some do, some don't. Generally, the nouns related to a verb that assigns θ-roles will assign θ-roles. But something like *lunch* doesn't.
 - I) Pat's lunch was enormous.
 - 2) Pat's eating of lunch was shockingly rapid.
- So, we can either find a DP with a θ-role with genitive case, or we can find a possessor with genitive case, in SpecDP.

Ditransitive N

- Consider the ditransitive verb give and the related noun gift. Just as give is responsible for three θ-roles (Agent, Theme, Goal), so can gift be:
 - I) Pat gave an apple to Chris.
- 2) Pat's gift of an apple to Chris was unexpected.
- The exact same problem arises with ditransitive nouns as arose with ditransitive verbs.
- Binary branching allows for just two arguments in NP. We need an additional projection for the third. Let's try doing this just like we did for verbs...



DP is like TP

- If we suppose that DP works like TP, we can extend our theoretical machinery in an exactly analogous way.
- Hierarchy of Projections
 D > n > N
- UTAH DP daughter of *n*P:Agent DP daughter of NP:Theme PP daughter of N': Goal

Case in the DP

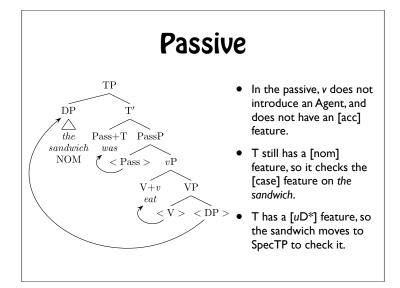
- In the DP, the "subject" appears with genitive case.
 - Cf. The subject in TP, which has nominative case, due to a [nom] feature on T.
- So, we say D can have a [gen*] feature.
 - This checks the genitive case on the subject of the DP, and forces it to move into SpecDP.
- In the DP, the "object" appears with the preposition of.
 - Cf. The object in TP, which has accusative case, due to an [acc] feature on v.
- So, we say that *n* has an [of] feature.

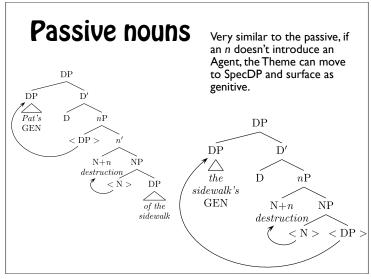
The <u>of</u> case

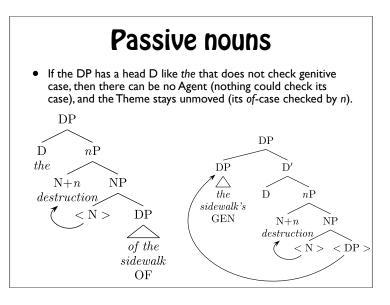
- What's the deal with this "of case" that objects in DPs get? Isn't of a preposition? Shouldn't of cheese in The gift of cheese to the senator was appreciated be a PP?
- This of is completely meaningless, it acts like a case marker. So, we're going to analyze it as such. Of cheese is a DP with the of case marking. Just like Pat's is a DP with the genitive ('s) case marking.
- Treating of as case allows a complete parallel between TP and DP; v has an [acc] feature, n has an [of] feature.

Passive nouns

- Last week, we looked at the passive construction:
 - I) The sandwich was eaten
- Here, the Theme *the sandwich* becomes the subject because the strong feature of T forces it to move to SpecTP. The *v* does not project an Agent.





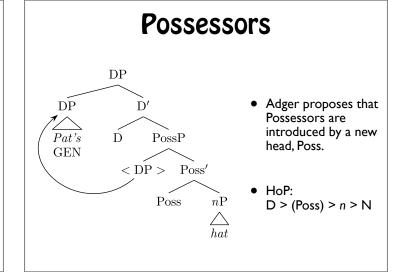


Case and $\theta\text{-roles}$

- We now predict the observation Adger makes: Either an Agent or a Theme can show up in the genitive, but only a Theme can show up with of-case.
 - I) Adger's analysis of the DP is simple.
 - 2) The DP's analysis is simple.
 - 3) *The analysis of Adger is simple.
- This is essentially the same as the generalization that, in a clause, either an Agent or a Theme can show up with nominative case, but only a Theme can show up with accusative case.
 - I called her.
 She tripped.
- 3) *Her tripped.
- 4) *Tripped her.



- Prior to today, the genitive case was associated with the possessor. So far today we've been looking at deverbal nouns, where genitive case goes to the subject.
- Our new improved UTAH says, among other things:
 - DP daughter of NP:Theme
 - DP daughter of *n*P:Agent
- Possessors are neither of these, so possessors need to be initially Merged into a distinct place in the structure.

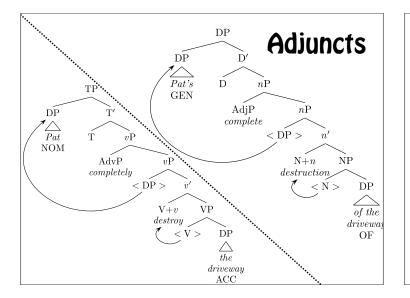


Hungarian possessors

- Az en kalapom the l hat 'my hat'
- 2) A Mari kalapja the Mary hat 'Mary's hat'
- A te kalapod the you hat 'your hat'
- Marinak a kalapja Mary the hat 'Mary's hat'
- Assuming that the DP in Hungarian has the basic structure we've been discussing, what is the structure of this kind of possessive construction?
- How about that (person?) agreement on 'hat'?

Adjectives

- Adjectives are to nouns as adverbs are to verbs. So what would the structure be for *Pat's complete* destruction of the sidewalk? Or the silly idea? Or the pencil on the desk?
- In Pat completely destroyed the sidewalk, we adjoin completely to vP. The subject moves to SpecTP.
- In the same way, we adjoin *complete* to *n*P, and *Pat* moves to SpecDP.



The Italian DP

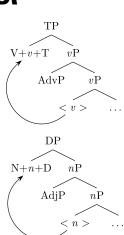
- In Italian, in many cases, there is simply an option (stylistically governed) as to whether you say The Gianni or just Gianni:
 - Gianni mi ha telefonato.
 Gianni me has telephoned 'Gianni called me up.'
 - 2) Il Gianni mi ha telefonato. the Gianni me has telephoned 'Gianni called me up.'

| The Italian DP However, there is a difference with respect to the order of adjectives and the noun depending on which one you use. | | |
|--|---|---|
| I)L' antica Roma the ancient Rome 'Ancient Rome' | E'venuto il vecchio Cameresi. came the older Cameresi | |
| 2)*Antica Roma ancient Rome | 5)*E'venuto vecchio Cameresi came older Cameresi | |
| 3)Roma antica Rome ancient | 6)E'venuto Camersi vecchio. came Cameresi older | |
| Gonoralizati | ion: If there's a determiner the | Ĺ |

Generalization: If there's a determiner, the noun follows the adjective. If there isn't the noun precedes the adjective.

The Italian DP

- We can apply the same analysis to the order nouns and adjectives as we did to the order of adverbs and verbs.
- Recall that in French, verbs precede adverbs, but in English, verbs follow adverbs. We conclude that in French, *v* moves to T.
- In Italian, when the noun precedes the adjective it has moved over it, to D. The generalization is that this happens except if D is already filled.
 - L' antica Roma the ancient Rome
 - Roma antica Rome ancient Rome ancient



Parameters

- Languages differ on whether *n* moves to D, yielding some languages where nouns precede adjectives, and some languages where nouns follow adjectives.
 - Likewise, languages differ on whether v moves to T, yielding some languages (e.g., French) where verbs precede adverbs, and some languages (e.g., English) where verbs follow adverbs.
- What governs whether *n* moves to D is the strength of an uninterpretable feature checked on D or *n* by the other. One such feature is [unum:].
 - Italian: [unum:*] is strong on null determiners.
 - English: [unum:] is weak, even on null determiners.
 - [Ø_{indef} Happy students] poured forth from the classroom.

More Italian, same point

- [_{DP} II mio Gianni] ha finalmente telefonato. the my G. has finally called 'My Gianni has finally called.'
- *[DP Mio Gianni] ha finalmente telefonato.
- [DP Gianni mio] ha finalmente telefonato.

Some Hebrew

- harisat ha-oyev 'et ha-'ir destruction the-enemy OM the-city 'The enemy's destruction of the city'
- tipul ha-Siltonot ba-ba'aya treatment the-authorities in-the-problem 'The authorities' treatment of the problem'
- Construct state. What seems to be happening here? Again, parametric variation.
 - [gen] feature of D is weak in Hebrew, strong (when there) in English. But [unum:] feature is strong in Hebrew.
 - Rather like VSO languages, where v moves to T (like in French, unlike in English), but the subject doesn't move to SpecTP (the [uD] feature of T is weak).