# CAS LX 522 Syntax I

Case, agreement, and the passive (chapter 6 continues)

## Subject-verb agreement

Recall that in English, the  $\phi$ -features of the subject have an effect on the morphology of the verb:

- |) Fans were rioting on Comm Ave.
- 2) A fan was rioting on Comm Ave.
- While we're here, we might as well account for this too. It is also an agreement relation, between the subject and, eventually, the verb (or auxiliary, if there is one).

### Subject-verb agreement

What we're after is this:

The subject (the thing that's getting nominative case) should share/check  $\phi$ -features with the thing that gets inflection from tense.

The  $\varphi\mbox{-}features$  are on the DP that checks nominative case with T.

The relevant inflection is valued by T.

Maybe it's "passed" from the DP to T, then from T to the uInfl: below.

- I) Fans were rioting on Comm Ave.
- 2) A fan was rioting on Comm Ave.
- Fans riot on Comm Ave.
- 4) A fan riots on Comm Ave.

### So. The verb gets its tense inflection specified by T when, e.g., the [tense:pres] feature of T values the [ulnfl:] feature of v. Since the subject already agrees with T (the [nom] feature of T checks the [case] feature of the subject), we'll incorporate subject agreement into this process. Notice that we still want this agreement to be mediated by T (sometimes it values, e.g., Perf):

2) She has been reading novels.

### Subject-verb agreement Suppose then that T has a $[u\phi:]$ feature as well. The subject has (interpretable) $\phi$ -features that value the $[u\phi:]$ feature of T. • They were rioting on Comm Ave. T $[T, uD^*, u\phi:, nom]$ (ucase:nom]they $[D, \phi:pl, case]$ [ucase:]So, once T is in the structure, c-commanding they in SpecvP, we get: T $[T, uD^*, u\phi:pl, nom]$ [ucase:nom]they $[D, \phi:pl, nom]$ [ucase:nom]

# Subject-verb agreement

Finally, we suppose that the (checked)  $[u\phi:pl]$  feature of T, also values a [ulnfl:] feature on a lower v (or Perf, or Prog).

- The rules of pronunciation will tell us that a v with the verb riot adjoined to it sounds like:
  - "riots" if v has the feature [ulnfl:pres,sg]
  - "riot" if v has the feature [ulnfl:pres,pl]

Notice that T values a [ulnfl:] feature all at once, with any relevant feature(s) it has (so, tense and  $\phi$ -features both).















# **Passives** The passive construction is one where:

The original subject disappears (or becomes a *by*-phrase)

The original object becomes the subject.

The verb appears as *be*+passive participle.

- The passive participle in English sounds just like the perfective participle.
- Pat took pretzels. active
- Pretzels were taken (by Pat). passive















### **Ditransitive passives**

Consider again Pat gave Chris books.

- Chris was given books.
- \*Books were given Chris.

Pat gave books to Chris.

- Books were given to Chris.
- \*Chris was given books to.

### Where does the byphrase attach?

Adverb tests can give us a hint...

The sandwich was eaten by Pat today at noon The sandwich was eaten by Pat at noon today The sandwich was eaten today \_ by Pat \_ at noon The sandwich was eaten at noon \_ by Pat \_ today

The dishes were washed by Pat \_ poorly \_ yesterday The dishes were washed poorly by Pat yesterday The sandwich was eaten by Pat \_ sloppily \_ at noon The sandwich was eaten sloppily by Pat at noon

Conclusion?

### **Adverbs** Before today, we'd mostly drawn adjuncts as adjoined to vP. This explains why *sloppily* can be either to the left or to the right of vP: 1) Pat sloppily ate lunch. 2) Pat ate lunch sloppily. 3) Pat has sloppily eaten lunch. 4) Pat has eaten lunch sloppily. *Sloppily* also seems to be able to adjoin to PerfP or ProgP, at least marginally. 5) ?Pat might sloppily have eaten lunch. 6) ?Pat should sloppily be eating lunch.

But it can't be between a subject and T:

7) \*Pat sloppily might eat lunch.

# Manner vs. propositional adverbs

sloppily, slowly, quickly—all describe the manner in which an action takes place. These are manner adverbs. They adjoin to vP.

There are other kinds of adverbs as well, however. One such kind are propositional adverbs: *perhaps*, *fortunately*, *interestingly*. These express a kind of attitude on the part of the speaker toward the content of the sentence.

# Propositional & temporal adverbs

- Propositional adverbs seem to adjoin to TP.
  - Fortunately, Pat ate lunch.
- 2) Pat ate lunch, fortunately.
- 3) ?Pat fortunately ate lunch.
- 4) ?Pat might have fortunately eaten lunch.
- Temporal adverbs also seem to adjoin high.
  - 5) Today Pat ate lunch.
  - 6) Pat ate lunch today.
  - 7) \*Pat today ate lunch.

# Adverb positions

Generally speaking, where an adverb attaches depends on its meaning.

vP for manner adverbs, TP for temporal adverbs, ... Notice that we predict this now:

- I) Yesterday [Pat completely [finished lunch]].
- 2) Yesterday [Pat [finished lunch] completely].
- 3) Pat [[finished lunch] completely] yesterday.
- 4) Pat [completely [finished lunch]] yesterday.
- 5) \*Pat [[finished lunch] yesterday completely.

Later, perhaps, we'll consider additional complexity in adverb placement.

### Where does the byphrase attach?

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Conclusion?

### Possessors

Consider the genitive (possessive) 's in English:

- ) 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:
  - 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 The possessed NP is the DP complement of D. D'DPNot actually this wait for the D NP D NP next slide bookthestudent s'

#### 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. ) \*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-pronominal DP Ď NP NP D is audible in English, as thebookstudentØgen DP's.

# The king's every whim

- I) A whim
- 2) The king's whim
- 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].

## Checking genitive case

The checking of genitive case in the DP works exactly like the checking on nominative case in the TP does.





# 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  $\mathcal{Q}_{gen}$ , which has a [gen] feature and in whose specifier we find possessors.

Another is  $\mathcal{O}_{indef}$ , which is a nonsingular indefinite article, in whose complement we find plurals and mass nouns.

 $[\mathcal{Q}_{indef} Milk]$  spilled.  $[\mathcal{Q}_{indef} People]$  cried.

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





### 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  $[u\phi:]$  feature, and the N has  $\phi$ -features as always (including a num feature).

The  $[u\phi:]$  feature is valued and checked by the  $\phi$ -features of the N.



# The case of prepositional objects

Consider the case of the object of a preposition:

Computers break near me.

Now that we've incorporated case into our system, we're stuck with it. Noun phrases come with case. *Computers* has case (nominative) and *me* has case (accusative).

The question is: How is the case of me checked?













### **Computers break**

Once the [D] feature of computers is a sister to the T' that has the  $[uD^*]$  feature (the feature projects from T to T'—it's the same feature), the  $[uD^*]$  feature is checked.



#### Computers break near me Now, let's consider Computers break near me. Me is clearly accusative. There's nothing here that can value a case feature as accusative. That's why I chose break. All we're adding to this is me (which has accusative case) and the P near. TPDP T' NP vPD т computers [tense:pres, $[u\phi:3pl,$ nom] $[\phi:3pl]$ *uϕ*:3pl, *u*D\*, vр nom v <DP> $\langle V \rangle$ v $[uV^*]$ break $[uD^*]$ uInfl:pres3pl]

# Computers break near me

**Conclusion**: It must be *near* that is responsible for the accusative case on *me*.

Merge *near* and *me* (Isg pronoun). The [D] feature of *me* checks the  $[uD^*]$  feature of *near*. The [acc] feature of *near* values and checks the [case] feature of *me* (checking itself in the process).



#### Near me computers break The last step: Adjoin the PP to the TP.

To the TP? Near me can appear on either side of TP, not vP. Computers near me break ΤP TP PP DP T' é DP near $[\phi:1sg]$  $[uD^*]$ D NP Т vPace acc *uφ*:3pl, computers[tense:pres *u*φ:3pl, *u*Đ\*,  $[\phi:3pl]$ nom VP Ŵ < V> <DP>  $[uV^*]$ hreak  $[uD^*]$ uInfl:pres3pl

# P checks accusative

So, in general: A preposition P...

- Has a [P] category feature
- Has a [uD\*] feature, motivating a Merge with its object.
- Has an [acc] feature, valuing and checking the [case] feature of its object.

T has [T], [uD\*] (EPP), [uq:], [nom]

v has [v], [uInfl:], [uV\*], and, if v assigns a  $\theta$ -role, it has [uD\*] and [acc].

### **Double-object constructions**

We've by now covered the sentence

Pat gave books to Chris.

Pat, books, and *Chris* are all noun phrases, they all need case.

Pat gets (nom) case from T.

books gets (acc) case from v.

Chris gets (acc) case from P (to).

What about Pat gave Chris books?

The "have" kind of "give" must have an [acc] feature.

## Japanese Numeral Quantifiers

- Gakusei ga hon o 4-satu katta students nom book acc 4-cl bought 'The students bought four books.'
- ?\*Gakusei ga hon o 4-nin katta students nom book acc 4-cl bought
- Gakusei ga 4-nin hon o katta students nom 4-cl book acc bought 'Four students bought books.'
- Gakusei ga kyoo 3-nin kita students nom today 3-cl came 'Three students came today.'
- Hon o Taroo ga 2-satu katta books acc T nom 2-cl bought 'Books, Taroo bought two.'
- Yuube, kuruma ga doroboo ni 2-dai nusum-are-ta last night cars nom thief by 2-cl steal-pass-past 'Last night, two cars were stolen by a thief.'(Miyagawa 1989)

### Italian <u>ne</u>-cliticization

Maria ha visto Gianni. Maria lo ha visto. M has seen G. M him has seen.

Gianni trascorrerà tre settimane a Milano. G spend.fut3sg 3 weeks in M

Alcuni {persone/\*ne} trascorreranno tre settimane a Milano some people/of-them spend.fut3pl 3 weeks in M.

Telefoneranno tre persone domani

\*Ne telefoneranno tre domani

Ne arriveranno tre domani

Ne furono arrestati molti.