CAS LX 522	<ul> <li>Determiners vs. adjectives</li> <li>There are a number of things that can come before nouns in a noun phrase:</li> </ul>
Syntax I The DP (6.5-6.8, 7.1-7.2)	1)fluffy bunny11) *fluffy the bunny2)that bunny12) *that the bunny3)the bunny13) *a the bunny4)a bunny13) *a the bunny4)a bunny14) *every the bunny5)every bunny15) *fluffy every bunny6)big fluffy bunny16) *a every bunny7)that fluffy bunny16) *a every bunny8)the fluffy bunny17) *the every bunny9)a fluffy bunny18) *that every bunny9)a fluffy bunny18)10)every fluffy bunny.Ike fluffy that can iterate, and things like the that must be first and must be unique.

#### Peterminers

The class that includes *the*, *every*, *that*, and so forth are called the **determiners**. They come in several subtypes, but they form a category, which we designate with the **category feature [D]**.

- Cf. the [V] feature of verbs, the [T] feature of T.
- There can be only one D in a noun phrase, and it must come first.
- Adjectives come after D and before N, and can iterate.

## Adjective iteration

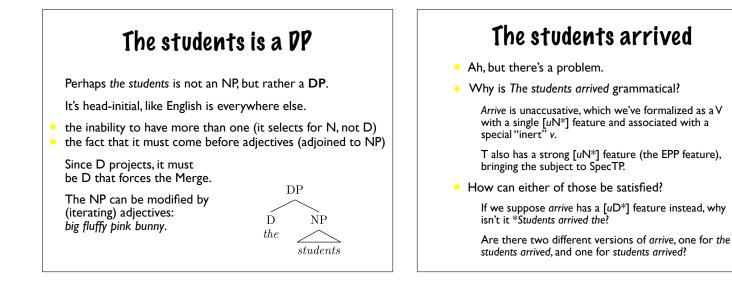
We've seen the iteration property elsewhere (PP adjuncts, for example):

- Pat ate lunch on the hill by the tree in the rain.
- Or adverbs (vP adjuncts):
- Pat deliberately completely ate the sandwich.

So, it makes sense to suppose that adjectives are also adjuncts. But to what?

3) The big fluffy bunny.

Notice that if *big* and *fluffy* are adjoined to NP, it suggests that *the* must also be, if the whole thing is an NP. But then why can there be only one, and why must it be first?



# They were always DPs

We can bring a degree of order to this chaos if we shift our thinking about "noun phrases": Those things we called "noun phrases" before were always actually DPs.

- So, T doesn't have a [uN\*] feature rather, it has a [uD\*] feature.
- Prepositions don't have a [uN\*] feature, they have a [uD\*] feature.
- No "version" of *arrive* has a [uN\*] feature, it's just the one *arrive*, but it has a [uD\*] feature.
- The basic form of a "noun phrase" is not students, but rather a student, the students. A determiner phrase.

# Students arrived

Having taken that step, we have (the specter at least) of the opposite problem: If *arrive* has a  $[uD^*]$  feature and T has a  $[uD^*]$  feature, how come *Students arrived* is grammatical? How are those features checked?

• Stand firm, brave syntacticians.

We grit our teeth, and conclude what we must: Students in Students arrived is in fact a DP. It has a determiner, which heads the DP. That determiner just happens to be *silent*.

## $(_{DP} \emptyset \text{ students })$ arrived

The silent D (null determiner) "shows up" with certain kinds of nouns, most notably the **bare plurals** ( $\emptyset$  books,  $\emptyset$ students) or mass nouns ( $\emptyset$  lunch) that we've mostly been using up until now.



There are no "bare singulars" in English: you can't use  $\emptyset$  book or  $\emptyset$  student (as in \* $\emptyset$  student arrived). The null determiner seems to be incompatible with singular nouns— it shows a kind of number agreement. The related singular form would use the **indefinite article** a: A student arrived.

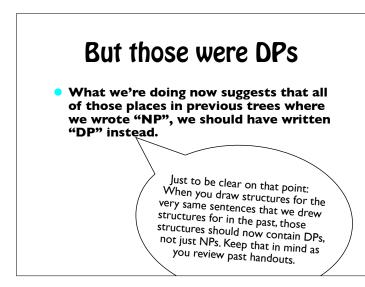
# There is still an NP

What we're doing now suggests that all of those places in previous trees where we wrote "NP", we should have written "DP" instead.

But there still is a category N, and there still are phrasal NPs, of course. We just find them in the complement of D, rather than on their own.

That is, "N comes with D."

**Hierarchy of Projections** (relevant to nouns): D > N



## one-replacement

- ) This book or that one
- 2) This book or the one about cats

It appears that in English, the word *one* can replace something smaller than the DP (hence evidence for the DP having an NP inside it.)

- The big green book of poetry on the shelf
- 4) This one on my desk
- 5) This small one on my desk
- 6) This small red one on my desk
- 7) \*This small red one of riddles on my desk

# **Proliferating PPs**

- 1) The book of poetry on my desk in the corner under the coffee
- 2) The book of poetry in the corner on my desk under the coffee
- 3) The book of poetry under the coffee in the corner on my desk
- 4) \*The book under the coffee of poetry in the corner on my desk

Any number of PPs can appear here, in any order, except of *poetry* seems to need to be first.

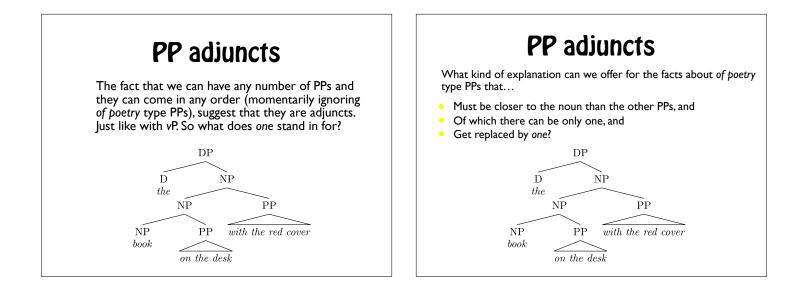
#### one-replacement again

- This book of poetry on my desk
- 2) \*This book on my desk of poetry.
- 3) \*This book of poetry of riddles.
  - ) That one on the floor.
- 5) \*That one of riddles on the floor.
- ) This book on my desk by the coffee.
- ) This book by the coffee on my desk.
- 8) That one by the pencils.
- What's the pattern? Whence the pattern?

Of the PP's, one kind (of poetry) seems to have to come first.

There cannot be more than one of the of poetry type PPs.

One seems to replace N and any number of PPs— but *must* replace the *of poetry* type PP if it is there.



#### Differentiating poetry from pencils

It's somewhat tricky to pin down a good diagnostic for which kinds of PP count as *of poetry* type PPs and which count as *by the pencils* type PPs.

Of poetry PPs generally start with of.

- 1) The book of great importance by the pencils.
- 2) The book by the pencils of great importance.

Of poetry PPs generally describe a fairly intrinsic property of the N.

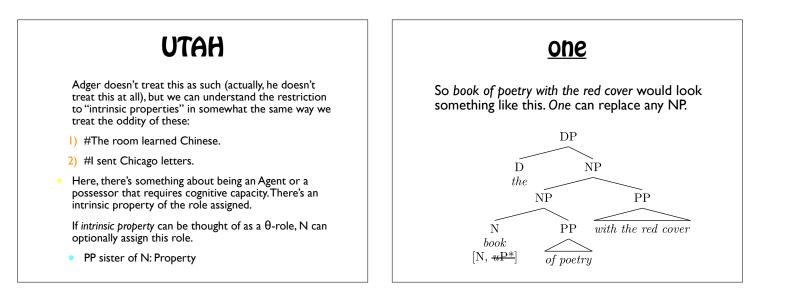
- The student of physics in the hall.
- 4) The student in the hall of physics.

## Of poetry PPs aren't obligatory

NPs don't necessarily have an of poetry type PP, but they can.

- 1) The book of poetry on the table.
- 2) The book on the table.

We'll analyze this essentially like Adger analyzed *letters to Peter* on p. 109 (though we may revise this slightly next week). An N has the option of having a  $[uP^*]$  feature, and if it does, the PP that satisfies it must have this "intrinsic property" characteristic (and will generally be an of-PP).



# The category of pronouns

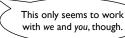
We said that bare plurals like students in Students arrived are really DPs, and have a null determiner.

[DP Ø students ] arrived.

• How about pronouns, like we in We arrived?

Although you can say The students arrived, you can't say \*The we arrived.

You can say things like We linguists should stick together. Or You syntacticians are a crazy lot. That is, a pronoun followed by a noun.



## The category of pronouns

We linguists looks rather like The linguists.

We looks rather like a D.

Also noteworthy:

1) The media always disparages us linguists.

Pronouns reflect case distinctions.

If pronouns are just Ds, then case must be a property of D.

Case is actually a property of D (not of N).

#### Possessors

Consider the genitive (possessive) 's in English:

- ) John's hat
- 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

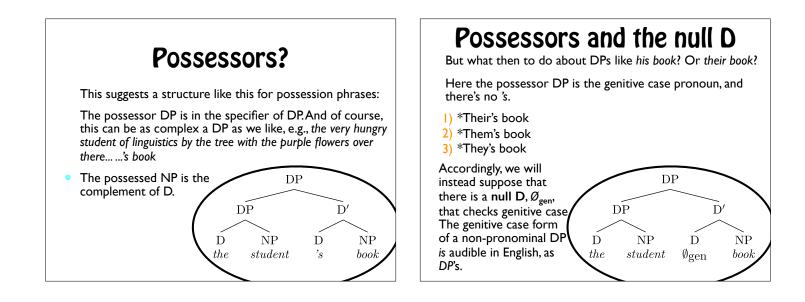
It seems to be impossible to have both a 's and a determiner.

- \*The building's the roof
- The roof of the building
- \*The hurricane's the eye

2) \*The that rabbit

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
- 4) \*Every my rabbit



## The king's every whim

- ) A whim
- 2) The king's whim
- 3) The king's every whim

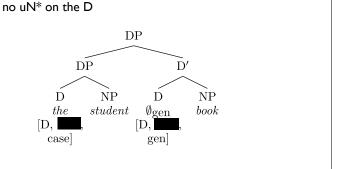
To the extent that every is a D, this indicates two things:

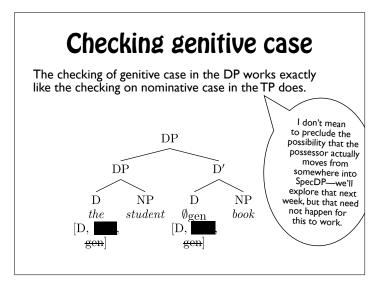
The king is to the left of the D; really, the specifier of DP is the only place it could be.

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].

## 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

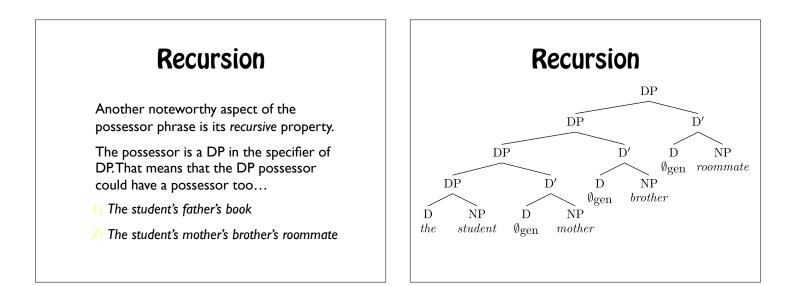
So we have at this point a couple of different null determiners. They are as different as *the* is from *a* or from *that*, they just happen to be pronounced the same way (like this:"").

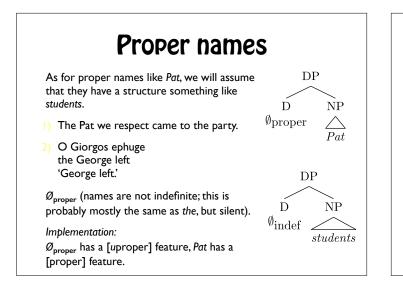
One is  $\mathcal{O}_{gen}$ , which has a [gen] feature and in whose specifier we find possessors.

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

 $[\mathscr{Q}_{indef} Milk]$  spilled.  $[\mathscr{Q}_{indef} People]$  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 \*[<sub>DP</sub> A students] and \*[<sub>DP</sub> 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.

