CAS LX 522 Syntax I

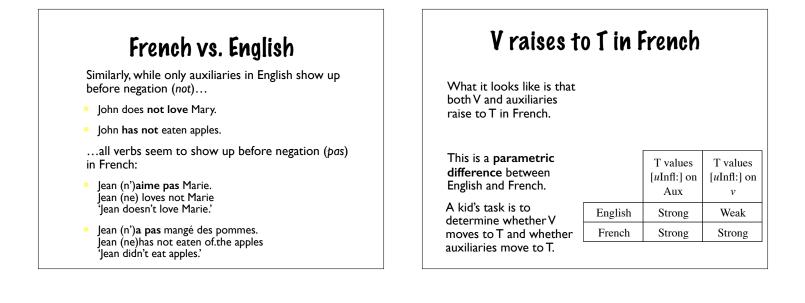
do-support, verb movement, parameters (5.5; 6.1-6.2)

French vs. English

In English, adverbs cannot come between the verb and the object.

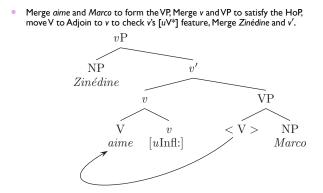
- I) *Pat eats often apples.
- Pat often eats apples.
- In French it's the other way around.
- Jean mange souvent des pommes. Jean eats often of.the apples 'Jean often eats apples.'
- 4) *Jean souvent mange des pommes.

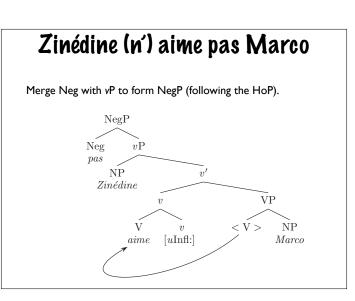
If we suppose that the basic structures are the same, why might that be?





First, build the vP just as in English.

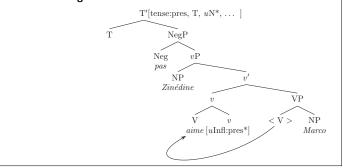




Zinédine (n') aime pas Marco

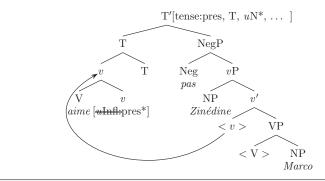
Merge T with NegP to form T' (again, following the HoP).

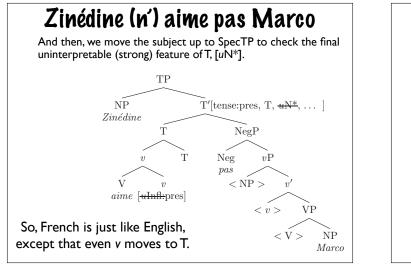
 Now T with its [tense:pres] feature c-commands v and its [ulnfl:] feature. They Match. But in French, when [ulnfl:] on v is valued by T it is strong. So...

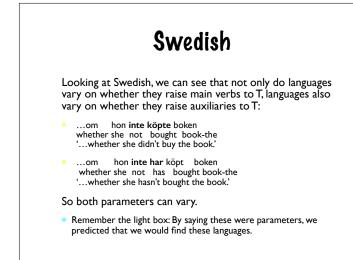


Zinédine (n') aime pas Marco

v has to move to T. Notice that at this point v has V adjoined to it. You can't take them apart. The whole complex head moves to T.







Typology of	verb/au	ux raisi	ng
Interestingly, there don't seem to be languages that raise main verbs but not auxiliaries.			
 This double-binary distinction predicts there would be. 		T values [<i>u</i> Infl:] on	T values [<i>u</i> Infl:] o
 It overgenerates a smidge. 		Aux	v
This is a pattern that we would like to explain someday, another mystery about Aux to file away.	English	Strong	Weak
	French	Strong	Strong
	Swedish	Weak	Weak
 Sorry, we won't have any satisfying explanation for 	Unattested	Weak	Strong

Irish

In Irish, the basic word order is VSO (other languages have this property too, e.g., Arabic)

- Phóg Máire an lucharachán. kissed Mary the leprechaun 'Mary kissed the leprechaun.'
- We distinguish SVO from SOV by supposing that the headcomplement order can vary from language to language (heads precede complements in English, heads follow complements in Japanese).
- We may also be able to distinguish other languages (OVS,VOS) by a parameter of specifier order.
- But no combination of these two parameters can give us VSO.

Irish

But look at auxiliary verbs in Irish:

) Tá Máire ag-pógáil an lucharachán. is Mary ing-kiss the leprechaun 'Mary is kissing the leprechaun.'

We find that if an *auxiliary* occupies the verb slot at the beginning of the sentence, the main verb appears between the subject and verb: **Aux S V O**.

What does this suggest about

The head-parameter setting in Irish?

How VSO order arises?

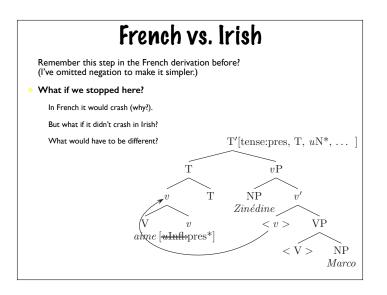
SVO to VSO

 Irish appears to be essentially an SVO language, like French.

Verbs and auxiliaries raise past the subject to yield VSO.

 We can analyze the Irish pattern as being minimally different from our existing analysis of French— just one difference, which we hypothesize is another parametric difference between languages.

V and Aux both raise to T (when tense values the [ulnfl:] feature of either one, [ulnfl:] is strong) in Irish, just as in French.



Parametric differences

We could analyze Irish as being just like French except without the strong $[uN^*]$ feature on T.

Without that feature, the subject doesn't need to move to SpecTP. The order would be VSO, or AuxSVO.

So, languages can vary in, at least:

- Head-complement order
- (Head-specifier order)
- Whether [uInfl:] on Aux is strong or weak when valued by T
- Whether [ulnfl:] on v is strong or weak when valued by T
- Whether T has a [uN*] feature or not. (Later, when we look at German, we'll suggest a different analysis of Irish, but this will work for now.)

do-support

In French, verbs move to T. In English, they don't move to T.

That's because in French, when [tense:past] values [uInfl:] on v, it is strong, and in English, it is weak.

What this *doesn't* explain is why *do* appears sometimes in English, seemingly doing nothing but carrying the tense (and subject agreement).

- The environments are complicated:
- 1) Tom **did** not **commit** the crime.
- 2) Tom did not commit the crime, but someone did.
- 3) Zoe and Danny vowed to prove Tom innocent, and prove Tom innocent they **did**.
- 4) Tom (has) never **committed** that crime.

do-support

The environments are complicated:

- Tom did not commit the crime.
- Tom did not commit the crime, but someone did.
- B) Zoe and Danny vowed to prove Tom innocent,
- and prove Tom innocent they did.
-) Tom (has) never **committed** that crime.

When *not* separates T and *v*, *do* appears in T to carry the tense morphology.

When T is stranded due to VP ellipsis or VP fronting, do appears in T to carry the tense morphology.

When never (or any adverb) separates T and v, tense morphology appears on the verb (v).

So, *do* appears when T is separated from the verb, but adverbs like *never* aren't "visible", they aren't in the way.

Technical difficulties

How do we generally know to pronounce V+v as a past tense verb?

T values the [uInfl:] feature of v. The presumption is that eat +v[uInfl:past] sounds like "ate." And T doesn't sound like anything.

But this happens whether or not v is right next to T. v still has a [ulnfl:] feature that has to be checked.

So, the questions are, how do we:

Keep from pronouncing the verb based on v's [ulnfl:] feature if T isn't right next to it?

Keep from pronouncing do at T if $v \underline{is}$ right next to it?

We need to connect T and v somehow.

Technical difficulties

The connection between T and v is that (when there are no auxiliaries), T values the [ulnfl:] feature of v.

This sets up a relationship between the two heads.

Adger calls this relationship a chain.

We want to ensure that tense features are pronounced in exactly one place in this chain.

If the ends of the chain are not close enough together, tense is pronounced on T (as do). If they <u>are</u> close enough together, tense is pronounced on v+V.

Technical difficulties

Let's be creative: Suppose that the tense features on v (the value of the [ulnfl:] feature) "refer back" to the tense features on T.

Agree can see relatively far (so T can value the [ulnfl:] feature of v, even if it has to look past negation).

But "referring back" is more limited, basically only available to features that are sisters. Negation will get in the way for this.

So if you try to pronounce tense on v but T is too far away, the back-reference fails, and v is pronounced as a bare verb. But the tense features have to be pronounced somewhere, so they're pronounced on T (as *do*).

PTR

Adger's proposal:

Pronouncing Tense Rule (PTR) In a chain (T[tense], v[ulnfl:tense]), pronounce the tense features on v only if v is the head of T's sister.

NegP, if there, will be the sister of T (HoP), but Neg has no [ulnfl:] feature. *do* will be inserted.

Adverbs adjoin to vP, resulting in a vP. v has a [uInfl:] valued by T and adverbs don't get in the way of vP being the sister of T. Tense is pronounced on the verb (v).

If vP is gone altogether, do is inserted.

So, here, T and v form a chain because [tense:past] valued [ulnfl:past]. But v is not the head of T's sister. $\overrightarrow{Pat} \underbrace{T}_{T} \underbrace{NegP}_{Neg} \underbrace{VP}_{not} \underbrace{VP}_{v} \underbrace{$

 \mathbf{V}

call [uInfl:past]

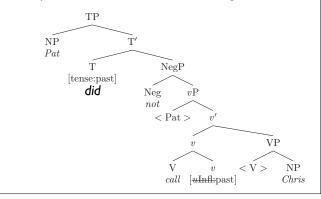
NP

Chris

< V >

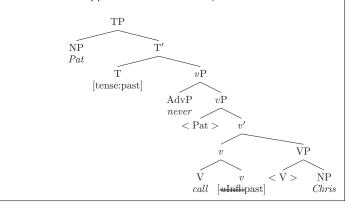
Pat did not call Chris

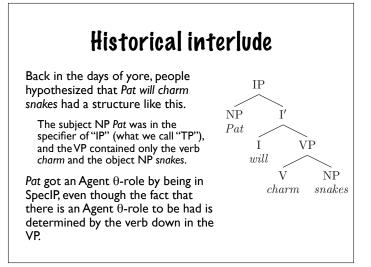
Do-support comes to the rescue. What this means is just that T is **pronounced** as *do* with the tense specifications on T.According to PTR, we don't pronounce them on v. **The tree doesn't change**.

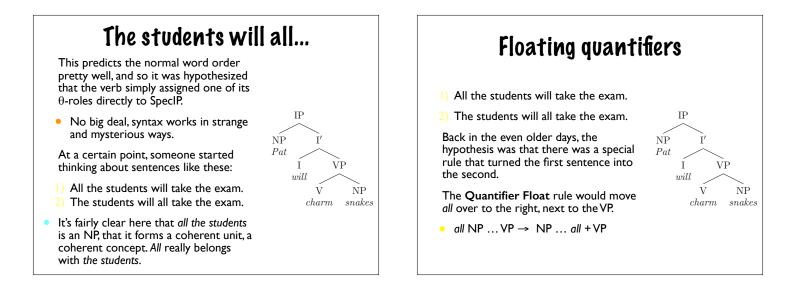


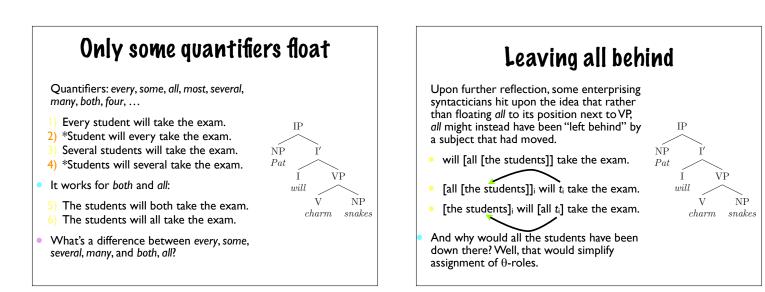
Pat never called Chris

If there is an adverb like *never*, PTR still allows tense to be pronounced on v (so T doesn't have any pronunciation of its own at all).



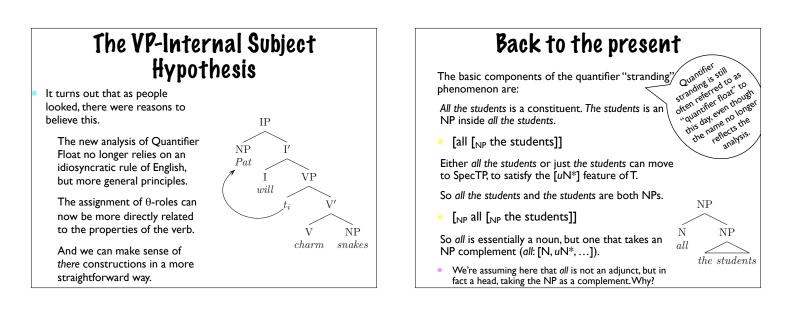


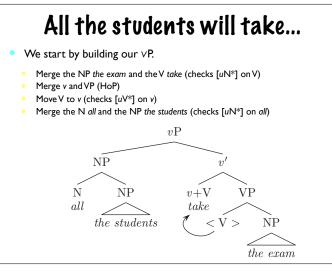




The VP-Internal Subject Hypothesis IP The verb (head of VP) can assign θ -roles to other ŃP things within the VP, which is Pata natural explanation for how the choice of verb VP T will controls whether an Agent θ -role is assigned or not. This idea became known as V NP the VP-Internal Subject charmsnakesHypothesis.

The VP-Internal Subject Hypothesis For us, we've supposed from IP the beginning that assignment of θ -roles is necessarily local. This ŃP may not seem like a very Patsurprising hypothesis. VP T willBut it was at the time a rather unintuitive idea, and so various people set out to see if some of v NP the predictions this makes are charmsnakesborne out in the grammatical data.



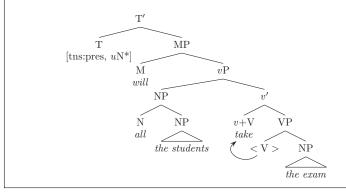


All the students will take... We Merge the M will with vP (HoP) This values [uInfl:] on v as [uInfl:M]. MP Μ vPwill NP 11 Ν NP v + VVP alltakethe students NP

the exam

All the students will take...

- We Merge the T with MP (HoP)
- This values [ulnfl:] on M as [ulnfl:pres*] (strong).



All the students will take...

- We move M up to T
- This checks the strong [ulnfl:pres*] on M.

