LING610

Infinitival Complements (LGB treatment, but with CP/IP instead of \overline{S}/S)

a.<<<Throughout, we will assume that infinitival Infl is not a governor, and null C is also not a governor. The former is explicit in LGB; the latter is not, but Chomsky must have been assuming it.>>>

b.<<<Throughout, we will be assuming the PRO requirement (that PRO must not be governed; shortly, we will see the LGB deduction of this from other principles, making it a theorem) and (a version of) the ECP - trace must be governed.>>>

c.<<<Throughout, we will be assuming that all XPs **except IP** are barriers to government.>>> d.<<<Throughout, we will be assuming that finite complements are always CPs, with *that* complementizer or null complementizer.>>

e.<<<Throughout, we will assume that an idiom must be a DS unit.>>>

I. We have seen 2 kinds of adjectives that are one-place predicates whose one argument is a clause; one kind takes a CP argument [___ CP], the other an IP [__ IP].

(1)	It is important $[_{CP} [_{IP} PRO to solve this problem arb]$	n]] ("PRO Theorem" The CP boundary protects PRO from being governed)
(2)	*Howard is important $\left[_{CP}\right]_{IP} t$ to solve this prob	blem]] (ECP The CP boundary prevents t from being governed by <i>important</i>)
(3)	*It is unlikely [IP PRO to solve this problem] arb	("PRO Theorem" The IP boundary does not protect PRO from being governed by <i>unlikely</i>)
(4)	Howard is unlikely $[_{IP} t$ to solve this problem]	(ECP The IP boundary does not prevent

It is interesting that CP complements of adjectives can also have the overt C *for*, and an overt subject (assigned Case 'exceptionally' by *for*):

t from being governed by *unlikely*)

(5) It is important [$_{CP}$ for [$_{IP}$ Howard to solve this problem]]

While it is conceivable that (5) could be re-analyzed as (6), with *for Howard* a PP, there are sentences that could not be analyzed that way (7).

- (6) It is important [$_{PP}$ for Howard] [$_{CP}$ [$_{IP}$ PRO to solve this problem]]
- (7) It is important $[_{CP}$ for $[_{IP}$ there to be an investigation]]

Pleonastics can never be objects of prepositions (likely because that is a θ -position), so (7) couldn't be re-analyzed like (6). Some other adjectives like *important* are *unimportant*, *legal*, *illegal*.

It is also interesting that IP clausal complements of adjectives have finite CP alternatives:

(8) It is unlikely [_{CP} that [_{IP} Howard will solve the problem]]

Some other adjectives that behave like *unlikely* are *likely* and *certain* (but, strangely, not *uncertain*).

II. There are also adjectives that are two-place predicates, with the object argument an infinitive:

(9) Mary is eager $[_{CP} [_{IP} PRO to solve the problem]]$

Notice that this must be 'control' and not 'raising', since *eager* is a two-place predicate. It takes a subject argument. Subject position could not have been empty at DS, so couldn't have been a target for movement. It also immediately follows that the subject can't be an expletive or a portion of an idiom:

- (10) *There is eager to be an investigation (cf. \checkmark There is likely to be an investigation)
- (11) *The cat is eager to be out of the bag $(cf. \checkmark The cat is likely to be out of the bag)$

Some other adjectives like *eager* are *anxious* and *happy*.

There are no two-place adjectives with IP complements. Such a complement couldn't have a PRO subject (since the subject would be governed by the matrix adjective). Nor could the subject be 'lexical', since it couldn't receive Case. Finally, obviously a DS subject couldn't raise from there to matrix subject position, since the matrix subject must already have been filled, given that we are hypothesizing a two-place predicate.

III. There are verbs that are one-place predicates whose one argument is an infinitive:

(12) Susan seems [$_{IP} t$ to like linguistics]

Evidence for this analysis comes from the fact that the matrix subject can be an 'idiom chunk' or pleonastic that must have originated in the embedded clause:

- (13) The cat seems $[_{IP} t$ to be out of the bag]
- (14) The shit seems [$_{IP} t$ to have hit the fan]
- (15) There seems [$_{IP} t$ to be a riot in the courtyard]

We know that the infinitive must be a 'bare' IP or the trace would fail to be governed, in violation of the ECP. Some other verbs like *seem* are *turn out* and *happen*. These verbs have alternative subcategorizations with finite complements and pleonastic subject:

(16) It seems/turns out/happens that Susan likes linguistics

PRO is predictably impossible:

(17)	*It seems [IP PRO to like linguistics]	(Meaning something like 'It seems that
	arb	someone or other likes linguistics')

Somewhat less expected is that lexical NP cannot remain in complement subject position:

(18) *It seems [_{IP} Susan to like linguistics]

Note that *seem* does govern *Susan* here, since it governs PRO in (17) and trace in (12). Thus, we are led to the conclusion that not all verbs are Case assigners. If *seem* is not, *Susan* in (18) runs afoul of the Case Filter.

There are a couple of verbs that are one-place predicates whose complements are infinitival CP. They have a pleonastic subject and take an infinitival complement with either a null C and a PRO subject, or a *for* C and an overt subject:

- (19) It hurts $[_{CP}$ for $[_{IP}$ me to see you like this]]
- (20) It hurts $[_{CP} [_{IP} PRO to see you like this]]$

Another verb like *hurt* is *sting*.

IV. There are verbs that are two-place predicates whose object argument is an infinitive. That infinitive might be an IP or a CP. An example of the first type is *believe*.

(21) Mary believes [_{IP} Susan to be a genius]

In this configuration *believe* governs *Susan*, since IP is not a barrier to government. PRO is impossible in the embedded subject position, since it would be governed here.

(22) *Mary believes [_{IP} PRO to be a genius]

Further, given the null hypothesis that a passivized verb has the same subcategorization frame as its active counterpart, we correctly predict that passive/raising is possible:

(23) Susan is believed [$_{IP} t$ to be a genius]

The trace of *Susan* will be governed by the matrix passive verb in satisfaction of the ECP. Two other verbs like *believe* are *consider* and *declare*. All of these verbs can also take a finite complement:

(24) Mary believes [_{CP} that [_{IP} Susan is a genius]]

Try is a two-place predicate taking a CP as its infinitival complement:

- (25) Harriet tried $[_{CP} [_{IP} PRO to win the race]]$
- (26) *Harriet tried $[_{CP} [_{IP} Barbara to win the race]]$
- (27) *Barbara was tried [$_{CP}$ [$_{IP}$ *t* to win the race]]

The CP boundary prevents *try* from governing the embedded subject, thus allowing PRO, disallowing lexical NP (via the Case Filter) and disallowing trace (via the ECP). Another verb like *try* is *attempt*.

V. There are verbs that are three-place predicates whose second object is an infinitival CP.

(28) John told Charles [_{CP} [_{IP} PRO to attend class]]
(29) *John told Charles [_{CP} [_{IP} Mary to attend class]] -Case

Note that *tell* is indeed a three-place predicate:

- (30) John told Charles a story
- (31) John told Charles [$_{CP}$ that [$_{IP}$ he should attend class]]

It follows immediately that the NP immediately following the verb cannot be a pleonastic (since, for whatever reason, objects cannot be pleonastic).

(32) *John told there to be an investigation

Some other verbs like *tell* are *convince*, *advise*, and *remind*.

VI. Finally there's a substantial class of verbs that are two-place predicates whose object argument is an infinitival that doesn't fit neatly into the paradigm we have developed (the one in LGB). A representative example is *want*. (31) suggests that the complement is a CP:

(33) Judy wants [$_{CP}$ [$_{IP}$ PRO to go home]]

<This could not be Raising, since *want* has a subject θ -role to assign. Further evidence is provided by the fact that an idiom chunk cannot appear in matrix subject position:

(34) The cat wants to be out of the bag (Only has the literal meaning)>

However, unlike the situation with *try*, we can have a lexical subject of the complement:

(35) Judy wants Harry to go home

All else equal, this might suggest that *want* also can take an IP complement (so that *want* can govern and assign Case to *Harry*. BUT, if the complement could be IP, trace should be possible, yet it is not, suggesting that the complement must be CP

(36) * Harry is wanted [$_{CP}$ [$_{IP}$ *t* to go home]]

These conflicting properties are problematic for the LGB account of infinitivals. Some other verbs like *want* are *like*, *hate*, and *love*.