# Intro to Syntax, PART SIX

# Omer Preminger, MIT

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#### Why movement?

- When discussing *selection*, we observed that for **some** verbs, the complement is optional:
- (1) a. John has  $[_{VP} eaten [_{DP} the apple] ]$ .
  - b. John has [VP eaten].
- We also observed, however, this is not true for all verbs:
- (2) a. John has  $[_{VP} \text{ devoured } [_{DP} \text{ the apple} ]]$ .
  - b. \* John has [<sub>VP</sub> devoured].
  - It seems that the verb *devour* unlike *eat*, for example **demands** that its complement (a DP) be present

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#### Why movement?

• This is systematic — regardless of the tense of the sentence, the *person/number* features of the subject, etc.:

The notation \*(*blah*) means that the utterance is **ungrammatical** without *blah*, but **grammatical** if *blah* is present — hence the asterisk is **outside** the parentheses. Similarly, there exists the opposite notation, (\**blah*).

- (3) a. John has devoured \*(the apple). [=(2)]
  - b. John is devouring \*(the apple).
  - c. John will devour \*(the apple).
  - d. John devoured \*(the apple).
  - e. We have devoured \*(the apple).
- ▶ Given this, the felicity of (4) could be considered somewhat surprising:
- (4) What has John devoured?
- So what's going on?
  - It's an age-old insight that this requirement which is satisfied by *the apple* in examples like (3a-e) is satisfied by *what* in (4)

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#### Why movement?

- BUT: there is obviously an important difference between an example like (3a) and an example like (4)
- (3) a. John has devoured the apple.
- (4) What has John devoured?
  - In (4), the element satisfying the requirement i.e., *what* is in the "wrong place", w.r.t. the element imposing the requirement (*devour*)
  - ▶ In fact, we can put *what* **arbitrarily far away** from *devour*, and still somehow satisfy *devour*'s requirement to have a complement:
- (5) a. What has John devoured \_\_\_\_?
  - b. What does Mary think that John devoured \_\_\_\_?
  - c. What did Bill notice that Mary thought that John devoured \_\_\_\_?
  - d. What did Susan mention that Bill noticed that Mary thought that John devoured \_\_\_\_\_?

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#### Why movement?

- This is what we call *movement* 
  - The phenomenon where a single syntactic element affects the utterance in more than once place
- (5) a. What has John devoured \_\_\_\_?
  - b. What does Mary think that John devoured \_\_\_\_?
  - c. What did Bill notice that Mary thought that John devoured \_\_\_\_\_?

d. What did Susan mention that Bill noticed that Mary thought that John devoured \_\_\_\_\_?

- In examples like (5a–d):
  - (i) what satisfies the verb devour's requirement to have a complement
  - (ii) but *what* is pronounced at the beginning of the sentence
- TERMINOLOGY: the "missing" complement of *devour*, in a sentence that is nonetheless grammatical, is called a *gap*

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#### What moves?

- ▶ We've seen movement of *what*; what else can move?
- (6) a. [Which apples] has John devoured \_\_\_\_?
  - b. [Which apples from the farm] has John devoured \_\_\_\_\_?
  - c. [Which delicious red apples from the farm] has John devoured \_\_\_\_\_?
- $\Rightarrow$  It looks like what's moving is a *phrase* (i.e., an XP)
  - This suggests that *what* itself is **also** a *phrase*
  - That's not too surprising, for at least two reasons:
    - I. If *what* can satisfy *devour*'s requirement to have a complement, it must be a phrase

- REMEMBER: all complements are phrases, by definition

- II. RECALL: there are other instances where a single word can act as a phrase (e.g., DP), such as pronouns:
- (7) John devoured <u>it</u>.

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#### What moves?

- These moving phrases share another property with *what*:
- (8) a. [<u>Wh</u>at] has John devoured \_\_\_\_? [=(4)]
  - b. [<u>Wh</u>o] has Mary seen \_\_\_\_?
  - c. [<u>Wh</u>ich apples from the farm] has John devoured \_\_\_\_? [=(6c)]
  - d. [<u>Wh</u>ere] has Bill gone \_\_\_\_?
- It seems that the moving element, in these questions, is a phrase headed by a word that bears a particular kind of morphology
  - ⇒ these words are known as *wh-words* or *wh-elements* 
    - even though some of them don't even contain "wh" (e.g., how)!
  - and the phrases that they head are known as *wh-phrases*

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#### Where to? • What position does the moving phrase move to? • The *wh*-phrase moves **past the subject** — as in, e.g., (4), repeated here: (4) What has John devoured ? > There's also the issue of the auxiliary verb (*has*) showing up on the "wrong side" of the subject • We'll get to that in another class, but note that: There are many languages that have the same kind of movement (of a (i) "wh-phrase"), without any verbs changing their position (ii) Even within English, this phenomenon only occurs in unembedded clauses; compare (4) with (9a–b): (9) a. \* Mary forgot [what has John devoured \_\_\_\_]. b. Mary forgot [what John has devoured ]. Intro to Syntax, PART SIX - 9 / 42 EGG 2009 / COST-A33. Poznań Omer Preminger, MIT

# Where to?

- $\Rightarrow$  In the interest of not dealing with too many variables at once, let us concentrate on the movement of the *wh*-phrase, for the time being
  - Empirically, this amounts to only looking at embedded question (again, for the time being; we'll get back to this soon)
- In embedded questions just like unembedded (a.k.a., "matrix") ones, the wh-phrase moves past the subject:
- (10) Mary wondered [what John has devoured \_\_\_\_]?
- The "subject" of a sentence is located in [Spec,TP]:

(as argued in detail in an earlier class)



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#### Where to?

- ▶ If the *wh*-phrase moves past the subject what is there **past** TP?
  - We have already met the category *C*(*omplementizer*)
    - the head that Merges with (and "introduces") embedded clauses
    - encodes the *illocutionary force* of a clause ("clause-typing")
      - e.g., whether the clause represents an assertion (<u>that</u> John left) or a question (<u>whether</u> John left)
  - In our current terms,  $C^0$  selects TP as its complement
  - RECALL: the moving element is a *phrase* 
    - given the X'-schema, complements and specifiers are positions for phrases, while *heads* are positions for... well, heads
    - $\Rightarrow$  the moving phrase must move to a *complement* or *specifier* of some XP

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# Where to?

- Possibilities:
  - the specifier of TP is occupied (by the "subject")
  - the complement of  $C^0$  is occupied (by TP itself)
  - the specifier of CP is... vacant!
  - ▶ the *wh*-phrase can move to [Spec,CP]
- Moreover, we have already seen that CP is the projection responsible for encoding *illocutionary force* ("clause-typing")
  - $\Rightarrow$  it makes a certain kind of sense for CP to be the projection relevant to the movement of *wh*-phrases
- (12) [ $_{CP}$  What [ $_{C'}$  C<sup>0</sup> [ $_{TP}$  John has devoured ]]]?

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# Constraints on wh-movement

#### What wh-movement can (and cannot) do

- We've already seen that movement can apply at great distances
  - i.e., the *gap* and the moving element can be arbitrarily far away from each other
     as demonstrated in (5), repeated here as (16)
- (16) a. **What**<sub>1</sub> has John devoured  $t_1$ ?
  - b. **What**<sub>1</sub> does Mary think that John devoured **t**<sub>1</sub>?
  - c. What<sub>1</sub> did Bill notice that Mary thought that John devoured  $t_1$ ?
  - d. What<sub>1</sub> did Susan mention that Bill noticed that Mary thought that John devoured  $t_1$ ?

.

- This might lead to the expectation that movement at least, movement of a *wh*-phrase in interrogatives is unconstrained
  - i.e., that you can move a *wh*-phrase from anywhere in the sentence to [Spec,CP]

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#### What wh-movement can (and cannot) do

- > Interestingly, this expectation is not borne out:
  - Consider the declarative sentence in (17a–b) embedded in (17b), and unembedded in (17a):
- (17) a. John knows the guy who brought the pizza.
  - b. Mary remembered [that John knows the guy who brought the pizza].
  - Suppose we want to build a question about the pizza
    - i.e., we want to know:
      - "for which *x* is it the case that John knows the guy who brought *x*"
      - and we don't know that *the pizza* is the *x* that would make that statement true
- (18) a. \* What<sub>1</sub> does John know the guy who brought  $t_1$ ?
  - b. \* Mary wondered [what<sub>1</sub> John knows the guy who brought t<sub>1</sub>]?

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#### What wh-movement can (and cannot) do

- This is remarkable, given that as shown earlier —the question we are trying to create is logically coherent:
- (19) for which x is it the case that John knows the guy who brought x
- Perhaps more strikingly, no language that forms its questions this way by moving a *wh*-phrase to [Spec,CP] can form the question in (18)
- (20) a. Dani makir et ha-baxur še-hevi et ha-pica (Hebrew) Dani knows ACC the-guy that-brought ACC the-pizza 'Dani knows the guy who brought the pizza.'
  - b. \* (et) ma<sub>1</sub> Dani makir et ha-baxur še-hevi t<sub>1</sub>? (ACC) what Dani knows ACC the-guy that-brought '\*What<sub>1</sub> does Dani know the guy who brought t<sub>1</sub>?'
- ▶ NOTE: this is not to say, of course, that asking a question with the meaning in (19) is impossible
  - This can be done by means of a paraphrase

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#### What wh-movement can (and cannot) do

- (21) a. What<sub>1</sub> did the guy who John knows bring t<sub>1</sub>?b. Mary wondered [what the guy who John knows brought t<sub>1</sub>]?
- The point is not that language has no way of asking a question with the logical representation in (19) (repeated here):
- (19) for which x is it the case that John knows the guy who brought x
- The point is that for some reason language cannot do so on the basis of the declarative(s) in (17) (also repeated here):
- (17) a. John knows the guy who brought the pizza.b. Mary remembered [that John knows the guy who brought the pizza].

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#### Islands

- There are numerous examples of this sort
  - i.e., instances of *wh*-movement that are, for whatever reasons, robustly and cross-linguistically ruled out
- ▶ these are known as syntactic *islands*

• imagine that *wh*-phrases can't swim... (*thanks, Norvin Richards*!) To help us try and make sense of this, we will classify these *islands* into several major

*ADJUNCT ISLAND* 

- (22) a. [Which party]<sub>1</sub> did you go [to  $t_1$ ]?
  - b. \* [Which party]<sub>1</sub> did you meet John [after t<sub>1</sub>]? (island-effect)
  - an adjunct cannot be extracted from (22b)
    - cf. a complement, which can be extracted from (22a)

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(baseline)

# Islands

• SUBJECT ISLAND	
(23) a. Who <sub>1</sub> did you buy [a picture of $t_1$ ]?	(baseline)
b. * Who <sub>1</sub> did [a picture of $t_1$ ] fall on your head?	(island-effect)
$\circ$ a DP in "subject" position cannot be extracted from — (23b)	
– cf. a DP in "object" position (a complement to $V^0$ ) — (23a)	
actually, the same is true for CPs:	
(24) a. Who <sub>1</sub> did you think [that we should hire $t_1$ ]?	(baseline)
b. * Who <sub>1</sub> did [that we hired $t_1$ ] surprise you?	(island-effect)
$\circ$ a CP in "subject" position cannot be extracted from — (24b)	
– cf. a CP in "object" position (a complement to $V^0$ ) — (24a)	
• this sub-case is sometimes called the <b>SENTENTIAL SUBJECT ISLANE</b>	)
<ul> <li>the reason why it deserves this "special treatment" is mostly his not yet seen any reason for this</li> </ul>	torical; we have
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# Islands

• <u>COMPLEX-NP CONSTRAINT</u> (CNPC)		
(25) a. What <sub>1</sub> do you believe [ $_{CP}$ that John bought t <sub>1</sub> ]?	(baseline)	
b. * What <sub>1</sub> do you believe [ $_{DP}$ the [ $_{NP}$ claim [ $_{CP}$ that John bought t <sub>1</sub> ]]]?		
	(island-effect)	
$\circ$ a CP dominated by an NP/DP node cannot be extracted from — (25b	)	
<ul> <li>– cf. a CP not dominated by an NP/DP node — (25a)</li> </ul>		
• <u>COORDINATE-STRUCTURE CONSTRAINT</u> (CSC)		
(26) a. What <sub>1</sub> did they [eat $t_1$ ]?	(baseline #1)	
b. What <sub>1</sub> did they [[eat $t_1$ ] and [drink $t_1$ ]]?	(baseline #2)	
c. * What <sub>1</sub> did they [[eat t <sub>1</sub> ] and [drink milk]]?	(island-effect)	
$\circ$ extracting out of one of two coordinated XPs is impossible — (26c)		
- though extracting "simultaneously" out of both is okay — (26b)		
• the latter is known as <i>Across-the-Board</i> (or <i>ATB</i> ) movement		
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#### A word about relative clauses

- Another thing to notice is that examples like (18a) (repeated here) actually violate two or three(!) different island constraints:
- (18) a. \* What<sub>1</sub> does John know [ $_{DP}$  the [ $_{NP}$  [ $_{NP}$  guy] [who brought t<sub>1</sub>] ] ]?
  - The phrase who brought the pizza in a DP like [*DP* the guy who brought the pizza] is called a *relative clause*
  - without going into the analysis of *relative clauses* that could **easily** be a whole course, unto itself notice:
    - a relative clause can be added to (almost) any noun
      - i.e., relative clauses are not *selected* by the noun
    - relative clauses cannot be ordered closer-to-the-head than *arguments*:
- (29) a. the student [of physics]<sub>arg</sub> [who I saw yesterday]<sub>RC</sub>
  - b. \* the student [who I saw yesterday]<sub>RC</sub> [of physics]<sub>arg</sub>

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#### A word about relative clauses

- $\Rightarrow$  relative clauses are *adjuncts*
- in terms of their category, relative clauses look like they are (at least) CPs  $\cdot$  in fact, within a relative clause we find a kind of movement that is very
- similar to *wh*-movement in questions(30) the student [<sub>CP</sub> who<sub>1</sub> [<sub>TP</sub> I saw yesterday t<sub>1</sub>]]

#### (it looks like this movement targets [Spec,CP], as well)

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#### A word about relative clauses

- ▶ Looking again at (18a):
- (18) a. \* What<sub>1</sub> does John know [ $_{DP}$  the [ $_{NP}$  [ $_{NP}$  guy] [who brought t<sub>1</sub>] ] ]?
  - the movement of *what* in (18a) violates:
    - (i) adjunct island
    - (ii) complex-NP constraint (CNPC)
    - (iii) wh-island(?)
- In general, overlapping causes like this are not a good sign (in terms of the "health" of the theory)
  - they often suggest that there is some deeper generalization that we are currently missing
- **BUT:** if it is true that the ungrammaticality of (18a) feels "worse" than the ungrammaticality of cases where fewer islands are violated
  - then the multiplicity of violations is has some support

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#### Other constraints on wh-movement

There are other constraints on *wh*-movement, which we may or may not want to list as part of our list of *islands*:

#### • LEFT-BRANCH CONDITION (LBC)

(31) a. [Whose book about linguistics] <sub>1</sub> did you read $t_1$ ?	(baseline #1)
b. What <sub>1</sub> did you read [a book about $t_1$ ]?	(baseline #2)
c. * [Whose] <sub>1</sub> did you read a $[t_1 \text{ book}]$ ?	(island-effect)
• in English, extracting the <i>specifier</i> ("left branch") out of a	a DP is impossible
<ul> <li>as is, probably, extracting anything from within that</li> </ul>	specifier
<ul> <li>the reason the LBC is not listed with the other islands is English-specific:</li> </ul>	that it is rather
(32) Jaki <sub>1</sub> Paweł kupił swojej żonie [t <sub>1</sub> samochód]?	(Polish)
what Paweł-NOM bought his wife-DAT car	
'What car did Paweł buy his wife?'	[Wiland 2008]
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#### Other constraints on wh-movement

In contrast to the LBC — which is operative in English but inoperative in many other languages — here is a constraint that is operative in most languages, but not in English:

#### • PIED-PIPING VS. PREPOSITION-STRANDING

- In English, when a *wh*-phrase is the complement of a P<sup>0</sup>, there are two options for "what moves"
- (33) a. What<sub>1</sub> did you place the cover [on  $t_1$ ]?

(preposition-stranding)

b.  $[On what]_1$  did you place the cover  $t_1$ ?

(pied-piping)

the name *pied-piping* is a reference to the fairy tale of *the Pied Piper of Hamelin* the idea being that the *wh*-word, like the Pied Piper, is forcing other things to follow it

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# Other constraints on wh-movement However, as mentioned earlier, many (most?) languages don't allow preposition-stranding, only pied-piping: (34) a. [al ma]<sub>1</sub> sam-ta et ha-kisuy t<sub>1</sub>? (Hebrew) on what put.2sg.MASC ACC the-cover '[On what]<sub>1</sub> did you place the cover t<sub>1</sub>?' b. \* ma<sub>1</sub> sam-ta et ha-kisuy [al t<sub>1</sub>]? what put.2sg.MASC ACC the-cover on ▷ In other words, in many languages (but not English), PP is an island EGG 2009 / COST-A33, Poznań

# Superiority

- All of the examples that we've been looking at (except for the ungrammatical example demonstrating a *WH-ISLAND*) have contained a single *wh*-phrase
- There is another kind of question, however, involving more than one *wh*-phrase
- (35) a. Who ate what?
  - b. Who does Mary think ate what?
  - c. Who did John convince to buy what?
- In questions like (35a–c), the speaker is asking for answers consisting of *pairs* e.g.:
- (36) a. Bill ate apples, Peter ate bananas, Bob ate oranges, ...
  - b. (Mary thinks that ...) <u>Bill</u> ate <u>apples</u>, <u>Peter</u> ate <u>bananas</u>, <u>Bob</u> ate <u>oranges</u>, ...
  - c. (John convinced ...)
    - <u>Bill</u> to buy <u>shoes</u>, <u>Peter</u> to buy <u>jewelry</u>, <u>Bob</u> to buy <u>a car</u>, ...

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#### Superiority

- $\Rightarrow$  these are sometimes known as *Pair-List* questions
  - because the answer is a list of *pairs*
  - Actually, there is nothing that restricts them to *pairs*, per se:
- (37) a. Who gave what to whom?
  - b. John gave a ball to Bill, Mary gave a book to Sue, ...

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#### Superiority

- These multiple-*wh* questions exhibit a curious property
   o consider, for example, (35b) repeated here:
- (35) b. Who does Mary think ate what?
- ▶ Only one of the *wh*-phrases moves
- Attempting to move both of them results in ungrammaticality, whichever way they are arranged:
  - (38) a. \* Who what does Mary think ate?
    - b. \* What who does Mary think ate?
- NOTE: this is not true in every language not even in every language that forms questions by moving *wh*-phrases to the beginning of the sentence
  - Bulgarian and Serbo-Croatian, for example, allow multiple *wh*-phrases to undergo movement in a *Pair-List* question (see Richards 2001)

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#### Superiority

- Even more curiously, it's not enough that exactly one *wh*-phrase moves; it seems to matter which one it is:
- (39) a. Who does Mary think ate what? [=(35b)]
  - b. \* What does Mary think who ate?
- This is particularly puzzling, because it seems what is not trapped inside an *island* in (39b)
  - How do we know?
  - If we replace the (other) *wh*-element with another DP, *what* is able to move freely:
- (40) What does Mary think Bill ate?
  - $\Rightarrow$  there is nothing about the **position** of *what* in (39b) that prevents it from moving
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#### Superiority

▶ What is it, then, that causes (39b) (repeated here) to be ungrammatical?

(39) b. \* What does Mary think who ate?

SUPERIORITY (subject to revision)

If  $\alpha$  and  $\beta$  are two candidates for movement into the same position, and  $\alpha$  c-commands  $\beta$ , then  $\alpha$  must be the one that moves

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# Summary

- We've seen various constraints on *wh*-movement:
  - $\circ \ islands$ 
    - adjunct island
    - subject island
      - · sentential subject island
    - complex-NP constraint (CNPC)
    - coordinate-structure constraint (CSC)
    - wh-island
  - other constraints, subject to more cross-linguistic variation
    - Left-Branch Condition (LBC)
    - pied-piping vs. preposition-stranding (i.e., the islandhood of PPs)
    - that-trace effect
  - superiority

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#### Summary

- These constraints may be just that a list of different phenomena that all constraint the movement of *wh*-phrases
- However, it is certainly tempting to at least **try** to find ways to unify some (if not all) of these into more general principles
  - and these attempts have been one of the most lively areas of syntactic theory over the last 25 years

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#### More movement(?)

- Consider *relative clauses*, once more:
- (42) a. The guy [that wrote the book].
  - b. The guy [who wrote the book].
  - The presence of a *wh*-element at the periphery of the relative clause in (42b) suggests that **movement** might be involved
- > How might we further test this hypothesis?

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#### More movement(?)

- First, of course, an English TP can't just begin with *wrote*:
- (43) a. \* [ $_{TP}$  Wrote the book].
  - b. \* Mary knows that [TP wrote the book].
- Perhaps more interestingly, it turns out that this *gap* that exists in a relative clause, cannot itself be within an **island**:
- (44) a. \* the book [which John [[read \_\_\_\_] and [drank coffee]]]

[coordinate-structure constraint (CSC)]

b. \* the book [which [a review of \_\_\_\_] annoyed John]

[subject island]

c. \* the book [which John read [the review [that criticized \_\_\_]]] [complex-NP constraint (CNPC)]

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#### [subject island]

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