

Wh-movement

movement of question phrases

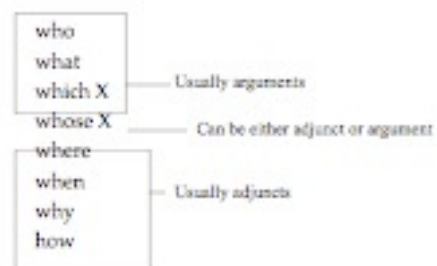
Another Terminological Point

- A Movement is the same thing as DP movement
 - Subtypes: Passive, SSR, SOR, movement of subject from VP internal subject to spec, TP
- A' (A-bar) Movement is the same thing as Wh-movement
 - Subtypes: Wh-movement, topicalization, relative clause formation

Two kinds of Questions

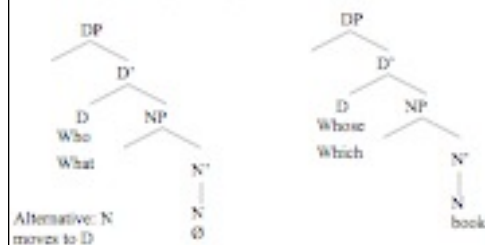
- Yes/No questions:
 - Did you see the octopus? yes/no /*dog
 - Have you eaten yet? yes/no /*apple
- Wh-questions
 - Who was here last week? Howard/*no
 - What do you have there? Nail clippers/*yes

Wh words



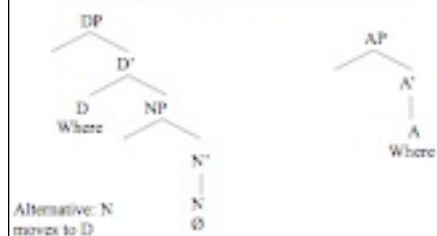
Wh-phrases are what move

- We move wh-*phrases*.
- *Who, What, Which, Whose* are determiners:



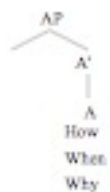
Wh-phrases are what move

- *Where* is sometimes a determiner
 - Where did John go to (cf. John went to school)
- And sometimes an Adverb
 - Where did John go (cf. John went home)



Wh-phrases are what move

- How, When, Why are usually adverbs



REMEMBER:
The *whole* phrase
moves, not just the head

Wh-questions involve movement

- I bought a book
- What did you buy



Where from?

What did you say [was hit]

Ends up here

gets case here
cf. the ball was hit

cf. John hit the ball

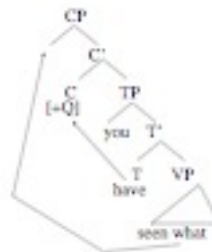
gets theta
role here

Where to?

What have you seen _____

subject aux inversion:
means Aux is in C

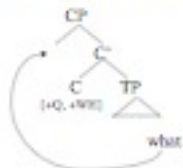
Wh-word precedes C =
specifier of CP



Why?

Movement of T to C is motivated by [+Q]

Proposal: there is a [+WH] feature in C, the wh-word must get close to it.



[+WH] Complementizers

Cé a^h bhí sa seomra?

Who that-wh was in-the room

"Who was in the room"

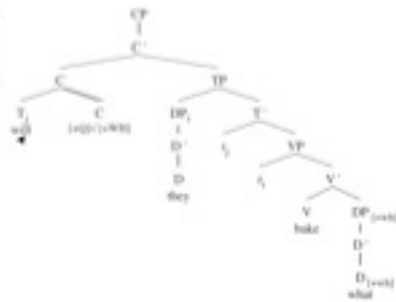
Motivations for movements

- *Head Movement:*
 - V to T (T to V) motivated by need of suffix
 - T to C motivated by null [+Q] C
- *NP movement*
 - Raising motivated by need for case
 - Passive motivated by need for case
- *Wh movement*
 - wh-questions motivated by need for wh-word to appear near [+wh] complementizer.

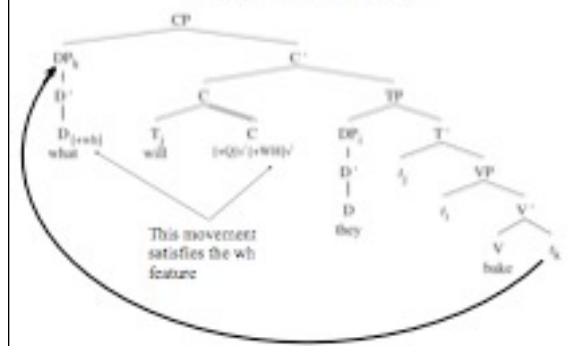
Wh-questions

- 1 thing to solve:
 - [+Q] C needs T
 - [-WH] C needs a [+wh] spec.

- Head-movement of will to C will check the Q feature



Wh-questions



Two weird English-specific constraints

- *Who that John left?
- *John asked who if Susan loved?
- English doesn't allow you to have both an overt complementizer (other than Aux) and a wh-word
- *The Doubly filled CP filter* (English only)
 - * [_{CP} wh that]

Two weird English-specific constraints

- Who did John think that Susan loved ____?
- *Who did John think that ____ loved Susan?
- Who did John think Ø ____ loved Susan?
- can't wh-move from a position next to the word "that".
- *That-trace filter* (English only)
 - * that t

A Derivation

What did John say was baked?

Step 1. UNDO all the transformations to figure out the D-structure

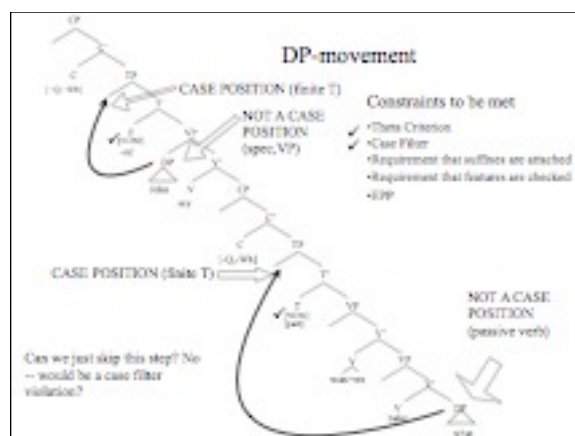
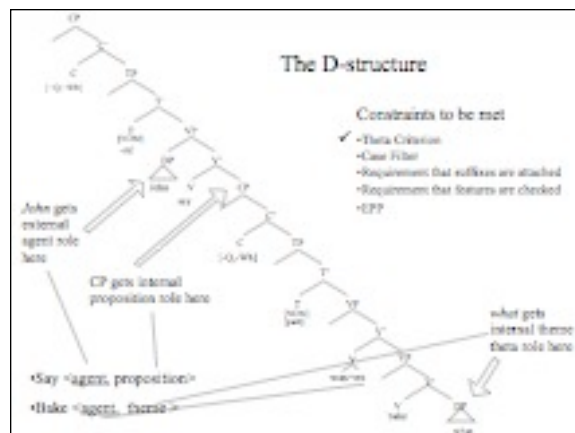
- 1) T→C movement: What John did say was baked
- 2) Do insertion: What John -ed say was baked

Question: where did "What" start?

Notice: John said the cake was baked. (question is embedded clause)

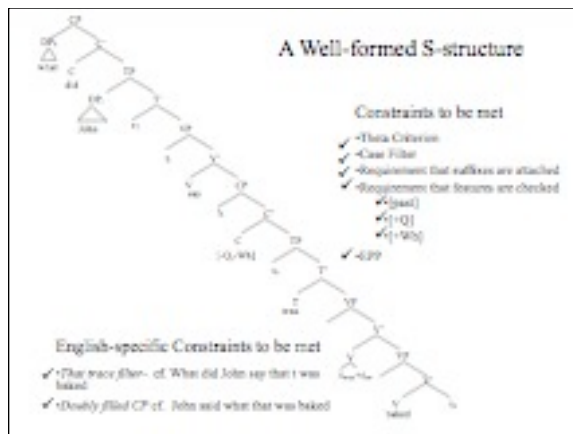
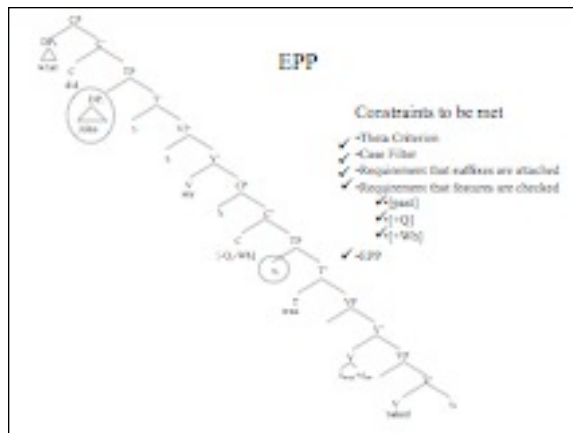
- 3) Wh-movement: John -ed say what was baked
- 4) DP-movement: John -ed say ____ was baked what

We are going to tree this string (4): *the D-structure*



An aside: the order of things

- START in your theta position
- If necessary, DP-move to get case. (*DP movement always ends in a case position*)
- Then if necessary, Wh-move to the specifier of CP to check [+wh]. (*Wh-movement always starts in a case position*)



Traces?

- want + to \rightarrow wanna
 - Who_i do you wanna kiss t_i ?
 - "Who do you wanna kiss the puppy?"
 - Who_i do you want t_i to kiss the puppy?

↑
intervenes, so blocks wanna
contraction

Children and Traces

- This movie shows three things:
- -Children exhibiting overt traces (saying the word in both its D-structure and S-structure position)
- Children never pronounce a wh-word in a syntax contraction environment
- Children don't seem to contract across a wh-trace.



What summary?

- Wh-movement moves Wh-phrase to specifier of CP
- Motivated by need to get Wh-phrase near [+WH] complementizer
- Two English Specific constraints
 - Doubly filled Comp Filter
 - That-trace filter