

Movement

EGG 2021 — Introduction to Syntax

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1 So far ...

Yesterday's class

There is no consensus on how to represent noun phrases at the moment

- Up until the mid-1980s, everyone used NPs
- Abney (1987) argued at length for the **DP hypothesis**
- It's been widely adopted and is introduced in many textbooks
- But there is renewed debate about whether it is accurate or not ...



Today, we'll look at a final syntactic phenomenon: **movement**.

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2 Movement

The idea of movement

Elements can appear in different positions in otherwise similar structures

- (1) a. Anke, Maria, and Adrian taught **syntax** at the EGG.
b. **What** did Anke, Maria and Adrian teach ____ at the EGG?
- (2) a. It seems that **you** really like syntax.
b. **You** seem ____ to really like syntax.
- (3) a. David enjoyed writing **Core Syntax**.
b. **Core Syntax**, David enjoyed writing ____.

- (4) a. There are **thirty students** in this course.
 b. **Thirty students** are ____ in this course.



The highlighted phrases in (1)–(4) can appear in different positions in the clause – apart from *what* in (1b) they're even spelled out identically.

In (1), both *syntax* and *what* represent the **direct object**

Movement

Constituents can be reordered with respect to others in the constructions in (1)–(4). Everyone agrees on that issue. But it is a characteristic of theories originating from **transformational grammar** that the two positions are linked by an operation often called **movement**. In Government and Binding Theory (GB) and Minimalism, some operation moves an element from its **base generated position** to one or more c-commanding positions.

- (5) Movement (abstractly)
XP ... ⟨XP⟩ ... ⟨**XP**⟩

Types of movement

Not all phrasal movement is the same – two types are often distinguished

- **A-movement** is the movement to an **argument** position
 - A-movement is often a matter of Case, such as raising and passive
- **A'-movement** ('A-bar movement') is movement to a **non-argument** position
 - Wh-movement (as in (1))
 - Topicalisation (as in (3))
 - Relativisation, ...

Examples of A-movement

Raising and passives in English can be analysed as movement for Case

- In raising, an embedded subject moves to the main subject position to get Case

- In the passive, a logical object moves to the subject position to get Case
- Exceptional case marking (ECM) and unaccusatives also involve movement for Case

(6) ECM (or ‘raising-to-object’; (5a) from Baltin 2001: 249)

- I believe **John with all my heart** ⟨John⟩ to be a fine person.
- I believe **him with all my heart** ⟨him⟩ to be a fine person.

However, not all types of A-movement can be explained using Case

(7) **Hyperraising** in Lubukusu (Bantu; Diercks 2012: 275)

- Ka-lolekhana (mbo) **John** ka-a-kwa.*
6.SBJ-seems that 1.John 1.SBJ-PST-fell
‘It seems that John fell.’
- John** a-lolekhana (mbo) John ka-a-kwa.*
1.John 1.SBJ-seems that 1.SBJ-PST-fell
‘John seems like he fell.’, ‘John seems to have fallen.’

A'-movement: wh-movement

A'-movement shows different properties than A-movement

- (8) a. **Which course** did you enjoy ____ at the EGG?
 b. **Which course** did Mary say that you enjoyed ____ at the EGG?
 c. **Which course** did Peter believe that Mary said that you enjoyed ____ at the EGG?

- In each example in (8), *which course* is the object of *enjoy*

❓ What does this tell us about wh-movement?

→ Wh-movement is **not clause-bound**: it is an **unbounded dependency**

- (9) Reconstruction: binding evaluates the base position of a wh-phrase
Which picture of herself_i does Mary_i like ____ the most?

Some languages allow **multiple wh-movement**

(10) Bulgarian (Bošković 2002: 352)

Na kogo what dade Ivan?

to who what gave Ivan

‘What did Ivan give to who?’

In these languages, **superiority** might restrict the order of wh-elements

- Superiority requires wh-elements to retain the order of the arguments

(11) BCS (Bošković 2002: 353)

a. *Ko koga voli?*

who whom loves

‘Who loves whom?’

b. *Koga ko voli?*

(12) Bulgarian (Bošković 2002: 354)

a. *Koj kogo običa?*

who whom loves?

‘Who loves whom?’

b. **Kogo koj običa?*

Not all languages show wh-movement — wh-elements can remain **in situ**

(13) Chinese (Bošković 2002: 352)

John gei-le shei shenme?

John give-PFV who what

‘What did John give to who?’

- We saw at the open podium that this is also the case in Arabic and French
- But those languages show a mixture and more variation

☞ The lovely Latin phrase *in situ* literally means ‘in position’. In other words, the wh-phrase remains in the same position as the argument or adjunct it represents.

3 Analysing movement

A-movement

We have already seen one possible analysis of A-movement

- Arguments need Case — to get it, they move into a certain position
- This *kind of* works for English ...
- ! But that cannot be the whole story: in (14), *students* gets NOM too

- (14) There are **students** in front of the dorm.



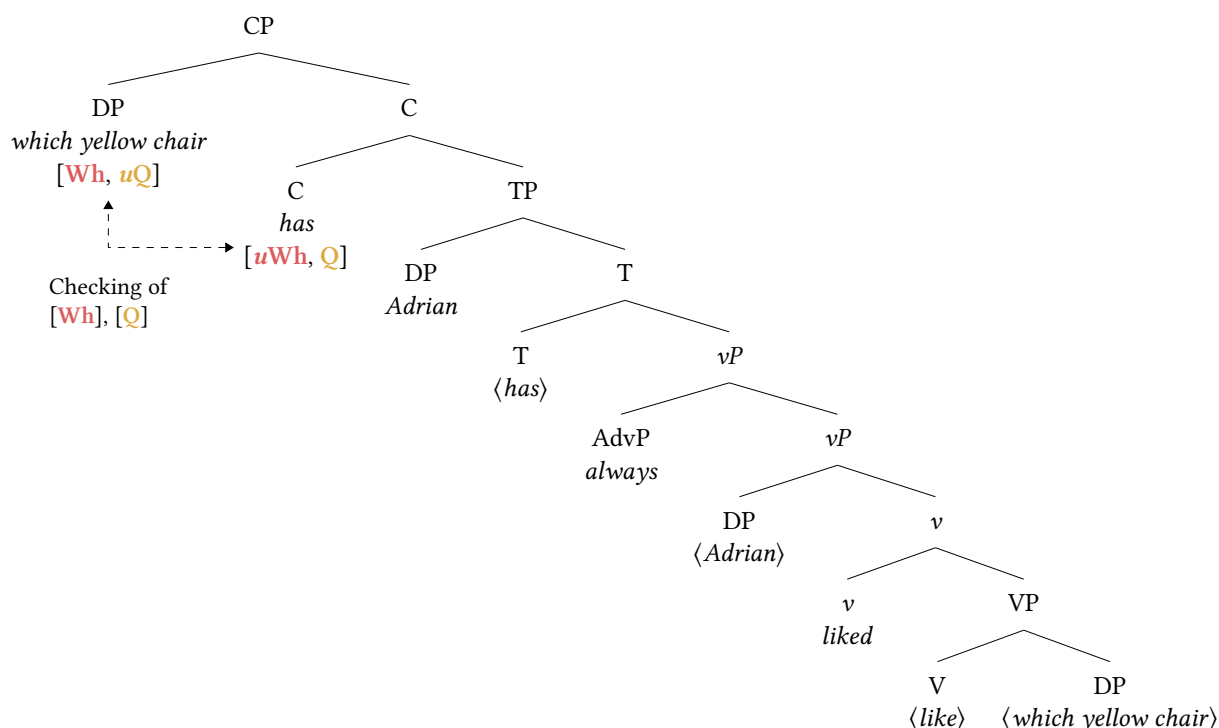
Agree can work over longer distances ... So why do subjects have to move for Case? It actually looks like the movement of the subject is independent of Case — A-movement is often modelled using EPP features. A head with an EPP feature requires its specifier to be filled.

Analysing A'-movement

Wh-movement is analysed using features that need to be checked:

[*uWh*], [*uQ*]

- (15) *Which yellow chair has Adrian always liked?* (Koenenman & Zeijlstra 2017: 173–175)



4 Islands

When does movement fail?

In certain structures, no movement dependency can be formed

- Such structures are called **islands**
- Movement is impossible out of certain coordinated structures and complex NPs

They're called islands because it is not straightforward to get onto or off an island... that's the metaphor, at least.

- (16) Violation of the Coordinate Structure Constraint (CSC)
- a. Mary plays [_{&P} the piano and the guitar].
 - b. ***What** does Mary play [_{&P} the piano and ____]?
- (17) Violation of the Complex NP Constraint (CNPC)
- a. Mary heard [_{DP} the rumour [_{CP} that János kissed Milena]].
 - b. ***Who** did Mary hear [_{DP} the rumour [_{CP} that János kissed ____]]?

5 Summary

Summary and conclusions

Movement refers to the fact that elements can appear in different positions

- **A-movement** is movement into argument positions (raising, passive, ...)
- **A'-movement** (A-bar) is movement into non-argument positions
- A'-movement includes wh-movement, topicalisation, focus movement, ...
- **Islands** can block movement (Boeckx 2008, Chaves & Putnam 2020)



That's it! Thank you very much for coming, for your questions and for PRO_i discussing syntax with me and each other_i!

Abbreviations

BCS = Bosnian–Croatian–Serbian, CNPC = Complex NP Constraint, CSC = Coordinate Structure Constraint, ECM = exceptional case marking, EPP = Extended Projection Principle, GB = Government and Binding Theory, NOM = nominative, PFV = perfective, PST = past, SBJ = subject.

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