Locality Constraints

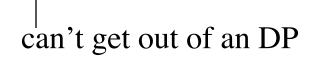
(DP) islands

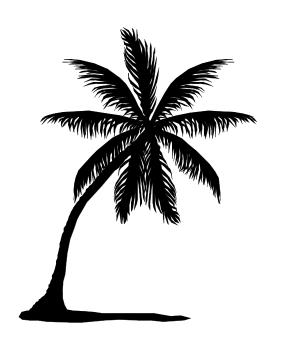
can get out of a CP

What, did Bill claim

[$_{CP}$ that he read t_i ?]

*What did Bill make [DP] the claim DP that he read TP





Islands are surrounded by water: you can't get off of (out of) them. Whmovement can't get out of an island

DPs are islands

DP Islands

Check out what Moe says in the following

clip:



?*You know what I blame this on the breakdown of?

I blame this on [the breakdown of society].

- Questioning society requires extraction of a wh-phrase from inside a DP (the breakdown of society).
- The Complex DP Constraint (CNPC):
 - \bullet *wh_i [... [DP ... [CP ... t_i ...] ...] ...]

Wh-islands

[CP Howi do TP you think [CP John bought the sweater ti?]]]

*[CP Howk do [TP you wonder [CP what [TP John bought titk]]]]

Wh-islands

I wonder [CP what [TP John kissed ti?]]

Who_j did you think [CP [TP tj kissed the gorilla?]]

*Who_k did you wonder [CP what_i [TP t_k kissed t_i ?]]

Wh-islands

- A CP with a wh-word in its specifier is an island for the movement of another wh-word.
- The Wh-island Constraint:
 - \bullet * wh_i [... [CP wh_k [... t_i ...] ...]

- Subject condition: You can't extract out of the subject CP of a clause:
 - [TP [CP that the police would arrest several rioters] was a certainty.]
 - *Who was [TP] [CP] that the police would arrest t_i] was a certainty]?
- The Subject Condition:
 - *w h_i ... [TP [CP ... t_i ...] T ...]

- Coordinate Structure Constraint: You can't extract out of either conjunct of a conjoined phrase:
 - I liked Mary and John
 - *Who_i did you like Mary and t_i?
 - *Who_i did you like t_i and John?

- Coordinate Structure Constraint: You can't extract out of either conjunct of a conjoined phrase:
 - I [VP ate some popcorn] and [VP drank some soda].
 - *Whati did you eat some popcorn and drink ti
 - *What_i did you eat t_i and drink some soda?

- The Coordinate Structure Constraint (CSC):
 - *wh_i ... [x_P [x_P ... t_i ...] conj [x_P ...]] ...
 - or *wh_i ... [x_P [x_P ...] conj [x_P ... t_i ...]] ...
 - or *wh_i ... [x_P [x_P ...] conj t_i] ...
 - or *wh_i ... [$x_P t_i \text{ conj } [x_P \dots]$] ...

How do we account for the island phenomena?

- We're going to provide an explanation for only one of these island types (whislands) but we'll see that that explanation extends to DP and head movement too.
- The Minimal Link Condition (informal version):
 - Move to the closest potential landing site.
 - (formal version is in your textbook)

The MLC and Cycles





If you do the movement in two hops (first to the intermediate CP specifier, then to the higher CP specifier) then you don't violate the MLC.

Intermediate Stop off?

- Is there any evidence that the wh-phrase actually stops on it's way up to the top?
- Some dialects of German and Malayalam pronounce a copy in the intermediate specifier
- Kids pronounce a copy at that location



Wh-islands: Try 1

 $Q_{\text{CP}} = \text{did}_{[+\text{wh}]} \left[P_{\text{TP}} \text{ you wonder } \left[P_{\text{CP}} = P_{\text{CP}} \right] \right]$

 $[CP _ did_{[+wh]} \ [TP \ you wonder [CP \ what_i \emptyset_{[+wh]} \ [TP \ who kissed t_i ?]]$

 $[CP _ did_{[+wh]} \ [TP \ you wonder \ [CP \ what_{[+wh]} \ [TP \ who kissed \ t_i ?]]$

Can't do this. The specifier of this CP is already filled by "what"

Wh-islands: Try 2

 $\mathcal{O}_{CP} = \operatorname{did}_{[+wh]} [_{TP} \text{ you wonder } [_{CP} = \mathcal{O}_{[+wh]} [_{TP} \text{ who kissed what } ?]]$

 $[CP _ did_{[+wh]}]$ $[TP you wonder [CP what_i Ø_{[+wh]}]$ $[TP who kissed t_i ?]]$

 $[CP \quad did_{[+wh]} \quad [TP \quad you \text{ wonder } [CP \text{ what } X_{[+wh]} \quad [TP \quad who \text{ kissed } t_i ?]]$

Can't do this! It violates the subjacency condition!!

Wh-islands: Try 3

can't do this! Specifier of lower CP is occupied by trace of who

No way to do it!

There is no way to derive a wh-island sentence like:

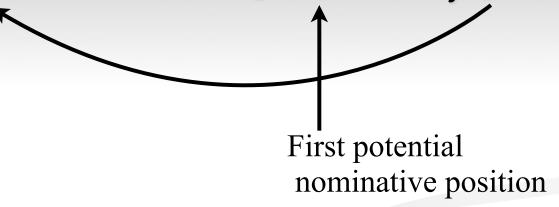
*Who do you think what read?

MLC effects with DPmovement

- Mark_i is likely [t_i to have left]
- It is likely that Mark has left
- Mark_i seems [t_i to have left]
- It seems [that Mark has left]
- __ seems [that ___ is likely [Mark to have left]
- It seems that Mark_i is likely [t_i to have left]
- *Mark_i seems that it is likely [t_i to have left]
 - This last sentence is known as "super-raising"

MLC effects with DPmovement

*[TP Marki seems that [TP it is likely [ti to have left]]]



This movement thus violates the MLC

MLC effects with Head Movement

Mangez vous des pommes? eat you of.the apples

 $[\text{CP } C_{[+Q]} [\text{TP vous } T_{[pres]} [\text{VP } t_{vous} \text{ mangez des pommes}]]]$

Avez vous mangé des pommes? have you eaten of the apples

[CP C[+Q] [TP vous avez [VP tvous mangé des pommes]]]

MLC effects with Head Movement

Mangez vous avez des pommes? eat you have of.the apples

[CP C[+Q] [TP vous avez [VP tvous mangé des pommes]]]

First potential head position to land in

This is sometimes known as the head-movement constraint (HMC) but it's due to the MLC.

Wh-in-situ in English

- D: "Hey, I just heard that Shelly loves Ferdinand."
- A: "Shelly loves WHO?"
- D: "You heard me; Shelly loves Ferdinand!"
- Unlike real wh-questions, Echo questions like the one above aren't requests for information, but are requests for confirmation of info. These don't involve whmovement. This is one of two phenomena called wh-in-situ

Wh-in-situ in English

- Echo questions don't have to have a whphrase in them:
 - Fred saw a spaceship in the LINGUISTICS LOUNGE?
- They are marked by special intonation and stress.
- This is possibly coded with a special null C head, which bears some kind of feature that triggers intonation.

24

Summary

- There are locality conditions on Whmovement.
- These are called Island effects:
 - DP islands (CNPC)
 - Wh islands (MLC)
 - Subject Islands (SC)
 - Coordinate Island (CSC)

Summary

- The MLC says "Move to the closest potential position"
- Explains
 - Wh-islands
 - "Super-raising"
 - Head Movement Constraint
- Echo questions in English don't involve movement but probably involve a special C that has intonation features associated with it.