

# “Wh Movement”, p. 1

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## Extraction limited to pivot

Normal top-down (“outside-in”) licensing:

(↑ TOPIC|FOCUS) = (↑ ... PIV)

- (1) Tagalog (Austronesian>Malayo-Polynesian>Western; the Philippines)
- Matalino ang lalaki- ng bumasa ng diyaryo.  
intelligent NOM man- LNK PERF.AGT.read ACC newspaper  
‘The man who read a newspaper is intelligent.’
  - Interesante ang diyaryo- ng binasa ng lalaki.  
interesting NOM newspaper- LNK PERF.DO.read ERG man  
‘The newspaper that the man read is interesting.’
  - \*Interesante ang diyaryo- ng bumasa ang lalaki.  
interesting NOM newspaper- LNK PERF.AGT.read NOM man  
‘The newspaper that the man read is interesting.’
  - \*Matalino ang lalaki- ng binasa ang diyaryo.  
intelligent NOM man- LNK PERF.DO.read NOM newspaper  
‘The man who read a newspaper is intelligent.’
- (2) West Greenlandic Inuit (Eskimo-Aleut>Eskimo; Greenland)
- nanuq [Piita- p tuqu- ta- a]  
polar.bear Peter- ERG kill- TR.PART- 3SG  
‘a polar bear that Peter killed’
  - miiraq [kamat- tu- q]  
child angry- REL.INTR- SG  
‘the child who is angry’
  - \*angut [aallaat tigu- sima- sa- a]  
man gun.ABS take- PRF- REL.TR- 3SG  
‘the man who took the gun’
- (3) Mam (Mayan; Guatemala and México)
- Alkyee x- hi b’eeet?  
who RECENT- 3plABS walk  
‘Who walked?’
  - Alkyee- qa x- hi tzaj t- tzyu- 7n Cheep?  
who- PL RECENT- 3pABS DIR 3sERG- grab- DIRS José  
‘Who did José grab?’
  - \*Alkyee saj t- tzyu 7n kab’ xiinaq?  
who RECENT.3sABS.DIR 3sERG- grab- DIRS two man  
‘Who grabbed the men?’
  - Alkyee saj tzyuu- n ky- e kab’ xiinaq?  
who RECENT.3sABS.DIR grab- APASS 3PL- OBL two man  
‘Who grabbed the men?’

## “*Wh* Movement”, p. 2

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- (4) **Chukchi** (Chukotko-Kamchatkan; Chukchi Peninsula, ne Siberia, Russia)
- a. E- tipʔeyŋe- kə- lʔ- in ŋewəçqet ragtə- gʔə.  
NEG- sing- NEG- PART- ABS.SG woman.ABS.SG go.home- 3SG  
‘The woman who was not singing went home.’
- b. Igər a- yoʔ- kə- lʔ- etə enm- etə mən- əlqən- mək.  
now NEG- reach- NEG- PART- to hill- to 1PL- go- 1PL  
‘Now let us go to the hill which (someone) didn’t reach.’
- c. En- agtat- kə- lʔ- a qaa- k ʔaaček- a  
APASS- chase- NEG- PART- ERG reindeer- LOC youth- ERG  
winret- ərkən- inet ŋewəçqet- ti.  
help- PRES- 3sERG.3pABS woman- ABS.PL  
‘The youth who does not chase the reindeer is helping the women.’

### Other ways to license *wh*-constructions

- Bottom-up (“inside-out”) licenses extraction of non-PIVs  
(↑ GF) = ((...↑) TOPIC|FOCUS)
- Pivots with a local discourse function can be assigned in situ

### A language with no top-down (“outside-in”) licensing

Imbabura Quechua (Quechuan; Imbabura, Ecuador)

- (5) a. Juan wagra- ta randi- shka- ta ya- ni.  
Juan cow- ACC buy- NMNL- ACC think- 1  
‘I think Juan bought a cow.’
- b. *Extraction of embedded PIV is \* because of lack of licensing*  
\*Pi- taj ya- ngui wagra- ta randi- shka- ta ?  
who- Q think- 2 cow- ACC buy- NMNL- ACC  
‘Who do you think bought a cow?’
- c. *... but extraction of non-PIV is ✓*  
Ima- ta- taj ya- ngui Juan randi- shka- ta ?  
what- ACC- Q think- 2 Juan buy- NMNL- ACC  
‘What do you think Juan bought?’
- d. *Local discourse function for PIV is allowed*  
Pi- taj kan- paj mama- man ali wagra- ta kara- rka ?  
who- Q you- POSS mother- to good cow- ACC give- PST.3  
‘Who gave your mother a good cow?’

## “*Wh* Movement”, p. 3

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### The “That-Trace” Filter

- (6) a. I think Gabi hugged Pnina.  
 b. I think that Gabi hugged Pnina.
- (7) a. Who do you think Gabi hugged \_\_\_?  
 b. Who do you think that Gabi hugged \_\_\_?
- (8) a. Who do you think \_\_\_ hugged Pnina?  
 b. \*Who do you think that \_\_\_ hugged Pnina?

Functionalist observation: finite subordinate clauses are only loosely connected to the higher clause.

Grammaticalization of this:

“finite subordinate clause”: marked by the complementizer *that*  
 connection with higher clauses: property of PIV

∴ *that* is marked with a lexical constraint that its PIV must be an element of its own clause, not an element of a higher clause. This lexical constraint results in the *that*-trace effect.

In Hebrew, the effect shows up with the complementizer *im* ‘if, whether’, but not with *še* ‘that’.

- (9) a. Mi ata xošev še \_\_\_ xibek et Pnina ?  
 who you think that \_\_\_ hugged ACC Pnina  
 ‘Who do you think hugged Pnina?’
- b. \*Mi šaalta im \_\_\_ xibek et Pnina ?  
 who you. asked if \_\_\_ hugged ACC Pnina  
 Who did you ask if hugged Pnina?

Since this is grammaticalization, each language chooses whether and how to grammaticalize.