

# **On Variation in WH and COMP Coordination Structures Barbara Citko & Martina Gračanin-Yuksek**

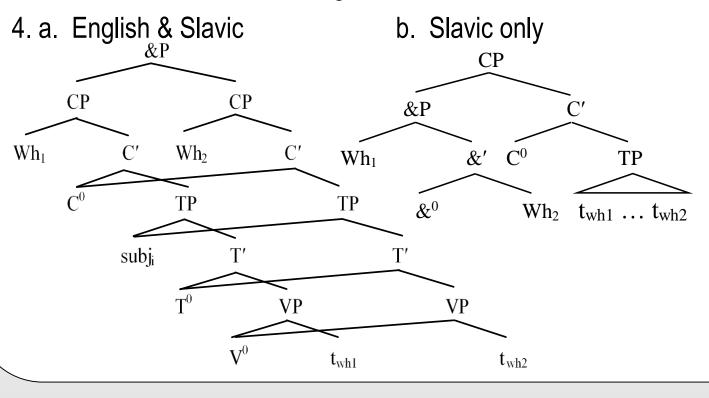
## WH & WH Coordination

Croatian

Polish

Coordinated Wh-Questions (CWHs) can be bi-clausal or mono-clausal, depending on the availability of multiple wh-fronting (Gračanin-Yuksek 2007, Citko & Gračanin-Yuksek 2013):

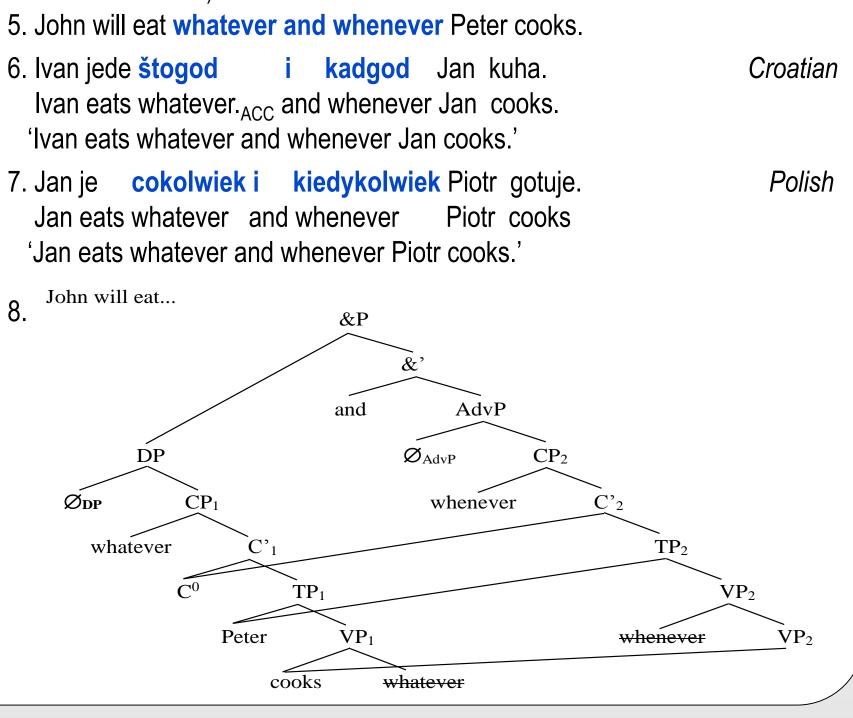
- 1. What and where did John sing?
- 2. **Što** i gdje Jan pjeva? what and where Jan sings 'What and where does Jan sing?'
- **gdzie** Jan zaśpiewał? 3. Co i what and where Jan sang 'What and where did Jan sing?'



## Coordinated Free Relatives (CFRs) are always bi-clausal (Citko &

Gračanin-Yuksek 2015).

- 6. Ivan jede **štogod**
- cokolwiek i 7. Jan je

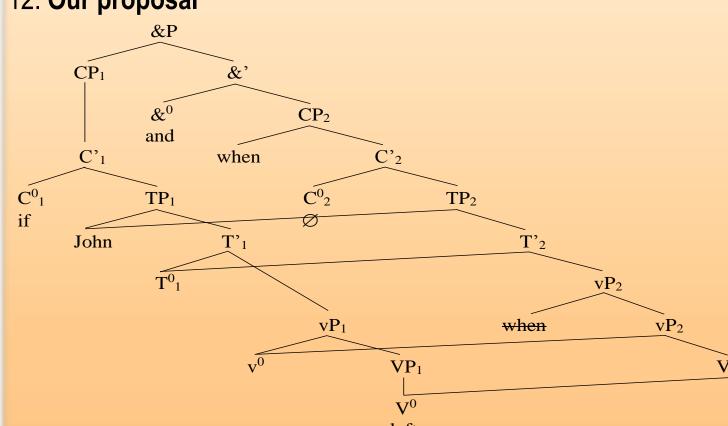


## **IF & WH Coordination**

## All three languages allow *if & wh* coordination:

- 9. I wonder if and when John left.
- 10. Pitam se da li i kada je Jan izašao. Croatian wonder.<sub>1SG</sub> REFL that-Q and when aux.<sub>3SG</sub> Jan left 'I wonder if and when Jan left.
- 11. Zastanawiam się, czy i kiedy Jan wyszedł. Polish wonder.<sub>1SG</sub> REFL if and when Jan left 'I wonder if and when Jan left.

### 12. Our proposal



### If & wh coordination is NOT reverse ellipsis (contra Merchant and Giannakidou 1998)

- 13. I wonder if <John left> and when John left.
- **STRANDING:** Complementizers cannot be stranded by deletion (Abels 2003), but are possible in RNR:
- 14. \*John knows that Maria is coming but I wonder if.
- 15. a. No one wonders if since everyone knows that the earth is round. b. No one is sure that and therefore everyone wonders if the earths is round.
- **INTERPRETATION:** The wh-phrase is absent from the first conjunct  $\rightarrow$ only interpreted in the second conjunct:
- 16. a. I wonder if and when John left. b. #I wonder if John left at a certain time and I wonder when that time was.
- with optionally transitive verbs:
- 17. a. I wonder if and what John sings. b. \*I wonder if and what John devours.

University of Washington and Middle East Technical University

Reverse Ellipsis

**TRANSITIVITY RESTRICTIONS:** If & what coordination is only possible

# **THAT & WH Coordination in Polish and Croatian**

### Croatian and Polish, but not English, also allow *that* & *wh* coordination:

- 18. \*I know that and when John left.
- 19. Znam da i kada je Jan izašao. know.<sub>1SG</sub> that and when aux.<sub>3SG</sub> Jan left Lit. \*'I know that and when Jan left.'
- 20. Wiem, że i kiedy Jan wyszedł. know.<sub>1SG</sub> that and when Jan left Lit. \*'I know that and when Jan left.'

### Restrictions on *that* & *wh* are the same as those on *if & wh* (illustrated with Polish below)

### **STRANDING:**

- 21. \*Jan nie wie czy Maria przyjdzie, ale ja wiem, że. Jan not know if Marija comes but I know that Lit.\*'Jan doesn't know if Maria is coming but i know that.'
- 22. Wszyscy wiedzą, że i nikt nie pyta czy ziemia jest okrągła. know that and noone not asks if Earth is round 'Everyone knows that and no one wonders if the earth is round.

# Lack of THAT & WH Coordination in English

That & wh coordination is not possible in English because the structure required to derive it is not linearizable.

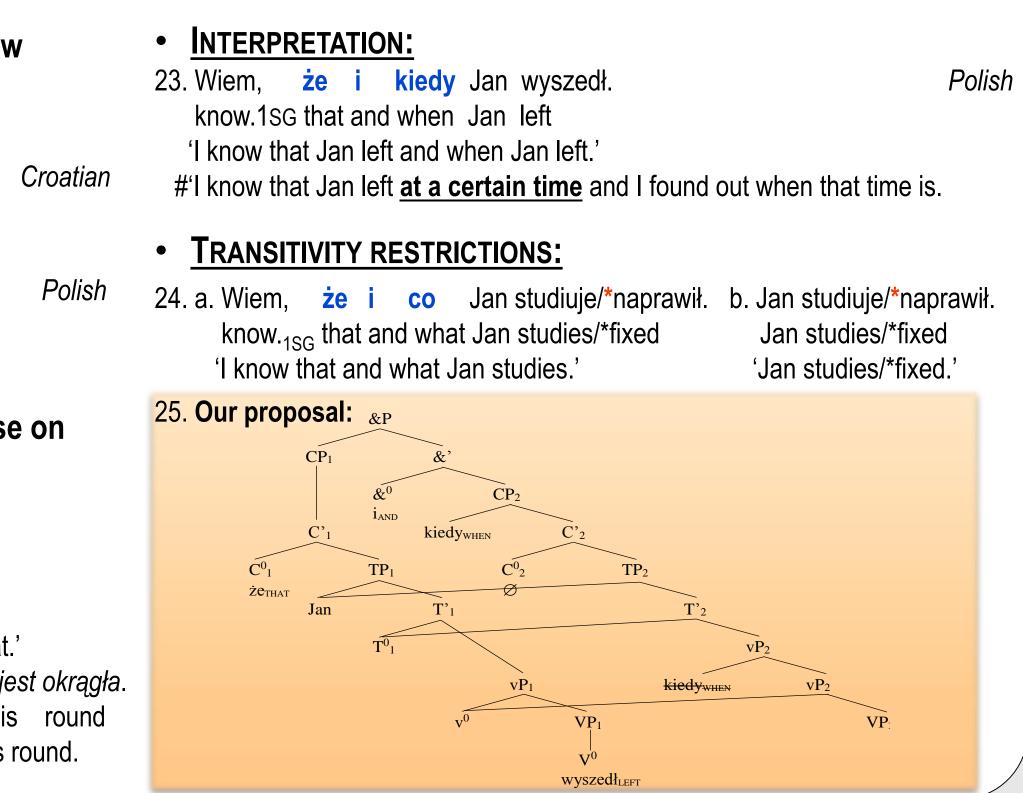
Croatian da / Polish że	English <i>that</i>
lexical complementizers	Spell-out of T-to-C movement (Pesetsky & Torrego 2001)

### In Polish and Croatian, the complementizer is obligatory. In English, it is optional:

- lva završila članak. 26. Znam \*(da) je Croatian know.<sub>1SG</sub> that aux.<sub>3SG</sub> lva finished article 'I know that Marija finished the article.'
- 27. I know (that) Mary finished the article.

### In Polish and Croatian, there is no that-trace effect; in English, there is:

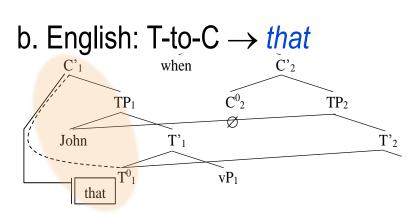
- 28. Kto chcesz, **żeby** \_\_\_\_ skończył artykuł? who want.<sub>2SG</sub> that.<sub>COND</sub> finished article 'Who do you want to finish the article?'
- 29. \*Who do you think that \_\_\_ left?



Given the availability of CWHs, CFRs, and *if & wh coordination* in English, why is *that & wh coordination out*?

### Derivation of *that* & *wh* coordination:

30. a. Polish: external Merge of *ze* in C



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- Since T is shared, *that is necessarily part of both conjuncts.*
- The subject *John* is also shared between both conjuncts. Inside First Conjunct: *that < John* (the higher occurrence of *that* (in C) c-commands *John*) Inside Second Conjunct: John < that (John c-commands the only occurrence of that (in T))
- The subject *John* cannot both follow *that* and precede *that*.
- Thus, the sharing of T makes *that* & *wh* structure non-linearizable.
- References: Abels, K. 2003. Successive cyclicity, anti-locality and adposition stranding. Doctoral dissertation, University of Polish Connecticut. Citko, B. & M. Gračanin-Yuksek. 2013. Towards a new typology of coordinated wh-questions. Journal of Linguistics 49: 1-32. Citko, B. & M. Gračanin-Yuksek. 2015. Multiple (Coordinated) (Free) Relatives. Natural Language and Linguistic Theory, 34: 393-427. Giannakidou, A & J. Merchant. 1998. Reverse sluicing in English and Greek. The Linguistic Review 15: 233-256. Gračanin-Yuksek, M. 2007. About Sharing. Doctoral dissertation, MIT. Pesetsky, D. and E. Torrego. 2001. T-to-C movement: Causes and Consequences. In Michael Kenstowicz (ed.) Ken Hale: A life in language, 355-426. Cambridge: MIT Press.