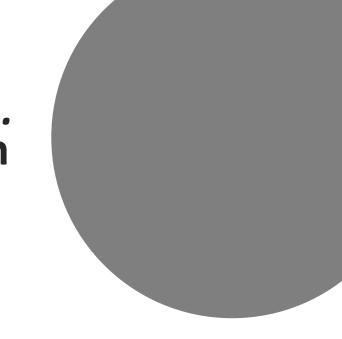
e Syntax of the not only...but also... onstruction: A Linearization Accoun



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Roadmap

- .. Previous accounts
- 2. Word order possibilities of *not only*
- 8. Negative inversion
- . An HPSG Analysis
- 5. Summary

1. Previous accounts

Previous accounts

Bianchi and Zamparelli (2004): "edge coordinations" in Italian and English

- 1) a. Gianni mi ha comprato *non* quest'auto, *ma* quella.
 - b. John bought me **not** this car, **but** that one.
 - a. Gianni ha invitato alla festa *non solo* Maria, *ma anche* Lucia.
 - b. John invited to the party *not only* Mary, *but also* Lucy.
 - a. Ho venduto *prima* l'auto, *poi* la pelliccia.
 - b. *First* I sold my car, *then* my fur coat.
- l) Gianni invita *ora* Maria, *ora* Lucia.
 - Gianni invites now Mary now Lucy.

Previous accounts

Ellpsis in "edge coordinations"

- 5) a. Gianni ha invitato alla festa non solo Maria, ma (lui) ha invitato alla festa anche Lucia.
 - b. John invited to the party not only Mary, but (he) invited to the party also Lucy.

Previous accounts

Word order patterns (Bianchi and Zamparelli 2004; Gallego 2005)

- 6) Adjacent orders
 - a. He invited not (only) Mary, but (also) Lucy. (adjacent final)
 - b. Not (only) MARY, but (also) LUCY he decided to invite. (adjacent initial)
- 7) Non-adjacent orders
 - a. I didn't invite (only) Mary, but (also) Lucy. (non-adjacent final)
 - b. Not (only) Mary did I invite, but (also) Lucy. (non-adjacent initial)

Only and also as optional adverbials Not only...but also... = not...but...

2. Word order possibilities of not only

Nord order possibilities of not only

lot only too high cases

- 3) a. Note that you can use this tool **not only** to upgrade <u>Windows 7 or Windows 8.1 PCs</u>, **but also** <u>Windows 10 PCs</u>. (COCA 2015 MAG PCWorld)
- b. And that was **not only** for <u>people he knew were allies and friends</u>, **but also** <u>ople who were in</u>. (COCA 2011MAG NatlParks)
 - c. ...usually in the mountain foothills that are the prime winter range **not only** for mule deer **but also** <u>elk</u>. (COCA 1997MAG FieldStream)
- d. As a professional golfer, he became an international celebrity, known not only for his accomplishments on the golf course, but his extravagant lifestyle. (COCA 197MAG GolfMag)
- e. Yet somehow I managed **not only** to rope myself into <u>a ski trip, **but** a ski trip</u> <u>w n my boss</u>. (COCA 2015 FIC Bk:SlayedOnSlopes)
- f. I was able **not only** to <u>cross the street</u> **but** <u>make it down Fruit Street to Mass (neral</u>. (COCA 2015 FIC FantasySciFi)

Nord order possibilities of not only

lot only too low cases

- 9) a. It makes a huge difference <u>to</u> **not only** <u>the students</u> **but** <u>to us</u> as teachers b cause it took a weight off of us as to how we can supply our kids with the things that they need to be successful in school. (COCA 2015 SPOK NBC)
- b. they are here to poke and prod and asphyxiate me with the obligation to **n** tonly understand, to not only come to grips, but also to stand up there and expla... and in this case, explain what? (COCA 2015 FIC WarLitArts)
- c. So definitely, my view <u>of</u> **not only** <u>my parents</u>, **but** <u>of myself</u>, has changed m, you know, having this son and my two daughters, too. (COCA 2014 SPOK NPR)

a

d. It is reasonable to suggest that the higher transmission risk that is clearly ociated with such horses is a consequence of not only increased viral load but of the illness itself. (COCA 2014 ACAD EmergingInfectious)

Nord order possibilities of not

lot too high cases (Song 2012)

- a. America's expectation lies **not** in its successes but its failures.
- b. She seems to have a political heart aching **not** for <u>forgiveness</u> **but** <u>position</u>.
- c. He removed a folded piece of paper from his pocket and rattled off a series of numbers that made clear how he wanted the election to be seen: **not** as <u>a squeaker **but** a rout</u>.
- d. ... and sat with him till one o'clock in the morning **not** drinking <u>wine</u>, **but** <u>tea</u> and talking metaphysics and morality.
- e. And you learn a good lesson in **not** to trust <u>anyone</u> **but** <u>yourself</u>.
- f. I come **not** to bring <u>peace</u> **but** <u>a sword</u>.
- g. ... you have to **not** look at <u>age</u> **but** the situation.

Nord order possibilities of not

lot too low cases

- a. ...Andrea Dornbracht, the managing director of Dornbracht, a German faucet company, q reportedly declared that the future was in **not** just selling products **but** in selling rituals.
 - b. Recently, publishers have starting to wring revenue out of their traffic by selling **not** ads, **but** by selling data about the people trolling their sites.
 - c. This may sound like an odd notion to a publisher, but you can achieve the most success by **not** selling your book, **but** by selling the benefits potential customers will get from your book's content.
 - d. Your role in working with your prospect is to sell not your product or service, but to sell yourself k finding out what it is your prospect really wants.
 - e. An option is to **not** sell the embargoed quantities to other foreign markets, ie to C, **but** to sell domestically.
 - f. ...his boss told him to **not** come into the office for the next week **but** to come by the boss's house every night so the two men could talk.
 - g. That's the persecution, a mentality that tells us to buy not because we need, but to buy for the prestige of owning something bigger and more shiny than our neighbor's.

Different word order possibilities of *not...but* ... and *not only...but also...*

- 12) Positions of *not* in the *not...but...* construction (Song 2012, p. 54)
- be succeeded <not> by <? not> selling <*not> books <*not>, but by buying shoes.
- 13) Positions of *not only* in the *not only...but also...* construction
- not only (with subj-aux inversion)> Joe succeeded <not only> by <not only> selling <not
 nly> books <*not only>, but also by selling shoes.

3. Negative Inversion

Vot only triggers sub-aux inversion in the clause-initial position

- L4) a. **Not only** was Stephens estranged from his English wife, he also had memorable confrontations was several notable women. (COCA 2015 ACAD GeorgiaHisQ)
- b. Not only are high rates of teacher turnover disruptive to students and the school, teachers with low organizational commitment often reduce their job performance before they quit (COCA 2014 A D AmericanSecondary)
 - c. **Not only** does the bridge attract tourists and playful dog owners; it also intrigues scientists.(COCA 2013 MAG NaturalHist)
- d. **Not only** does SanDisk's \$50 digital music player have twice the storage of the 2 GB Apple iPod sl ffle, it has a 1.1-inch color display for viewing album track titles and art work.(COCA 2013MAGSatEvenPos
 - e. **Not only** were Django's mom and dad gone forever; the Django who lived in Beverly Hills was gon too.(COCA 2012FICBk:LittleGirlGone)
 - f. **Not only** does QOOQ (\$399) teach you how to cook, it is designed--unlike any other tablet--to be spill-and slip-proof so it can withstand anything (literally) you throw at it.(COCA 2012MAGUSAToday
- g. **Not only** did Bonnie's life shift, her school made Annual Yearly Progress for special education st dents, which Bonnie's teacher attributes to her sequential focus on the WM list.(COCA 2012ACADReadingTe her)

Vot does not trigger sub-aux inversion

- a. *Not did Joe succeed by selling books, but by buying shoes.
 - b. *Not was Joe stupid, but lazy.

15)

Vot only inversion as a subtype of only inverson?

- 16) Only inversion
 - a. Only his mother will he obey.
 - b. Only on Sundays do they eat with their children.
- only by itself cannot float to the clause-initial position.
- L7) a. *Only did Joe succeed by selling books.
 - b. *Only was Joe stupid.

Clause-initial *not only* and sub-aux inversion is an idiosyncratic property of the *not only*.. but also... construction.

4. An HPSG Analysis

An HPSG Analysis

- 1.1 A new subtype of the *coord-ph* : *correlative-coord-ph*
- .2 Linearization of *not only*
- .3 Negative Inversion

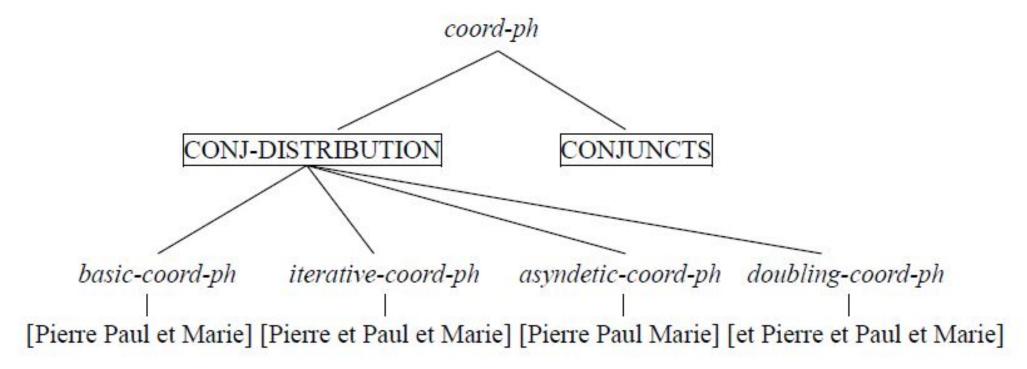
1.1 A new subtype of the *coord-ph* : *correlati ve-coord-ph*

Mouret (2004): French conjunction doubling coordinations (et 'and'...et 'and'..., soit 'e ither'... soit 'or')

```
18) Luc connaît et Max et Léa.
Luc knows and Max and Léa
'Luc knows not only Max but also Léa.'
```

Mouret (2004)

L9)



Mouret (2004)

```
20) coord-ph \rightarrow [\blacksquareCON] &null @HEAD &[1] @VALENCE &[2] @SLASH &[3] @NON—HD—DTRS&<[\blacksquareHEAD &[1] @VALENCE&[2] @SLASH &[3] ],...,[\blacksquareHEAD &[1] @VALENCE&[2] @SLASH &[3] ]> ] & (21) doubling-coord-ph \rightarrow [\blacksquareDOUBLING &[1]et\lor ou\lor ni2\lor soit @NON—HD—DTRS&<[CON] [1],...,[CON] [1]> ]
```

1.1 A new subtype of the *coord-ph* : *correlati ve-coord-ph*

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A new subtype for "edge coordinations": 22) correlative-coord-ph →
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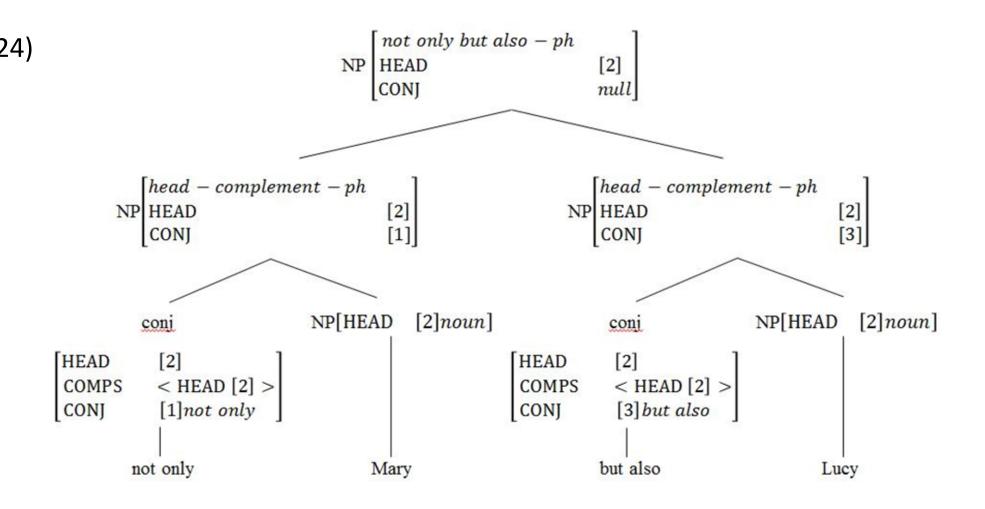
```
[NON-HD-DTRS / nelist([CONJ [1]]) \oplus [CONJ [2]]]
```

Not only but also construction as a subtype of correlative-coord-ph

23) not only but also-ph \rightarrow

[NON-HD-DTRS $nelist([CONJ not only]) \oplus ([CONJ but also \lor but \lor also])]$

An example



1.2 Linearization of *not only* 1.2.1 *Not only* too low cases

Extension of Hofmeister's (2010) linearization analysis of *either* in disjunction structures Word order domain (Reape 1990, 1996; Kathol 2000)

- A licensing construction that enables shuffling of *not only* within the conjunct
-) A linear precedence (LP) rule that orders *not only* before the focused element
-) Coordinate ellipsis (for *not only too high* cases)

Hofmeister (2010)

- 28) < Either > Thomas < either > will < either > write < either > a mystery or he'll write a omance.
- 29) < Either > You'll < either > need to < either > bring < either > a passport or a birth ertificate.
- 30) < Either > Congress < either > will < either > pass the legislation or lose our confidence.
- 31) <Either> You <either> can <either> have <either> tea <either> from <either> China or om Tibet.

Nord order domain approach

DOM (domain) feature

(25) Concatenation construction

$$concat - cx \Rightarrow \begin{bmatrix} MOTHER & [DOM \delta 1 \oplus \delta 2] \\ DTRS & \langle [DOM \delta 1], [DOM \delta 2] \rangle \end{bmatrix}$$

(26) Shuffle relation

$$< a, b > 0 < c, d > \epsilon$$
 $\begin{cases} < a, b, c, d >, < a, c, b, d >, < a, c, d, b > \\ < c, a, b, d >, < c, d, a, b >, < c, a, b, d > \end{cases}$

(27) Liberating construction

$$liberating - cx \Rightarrow \begin{bmatrix} \text{MOTHER} & [\text{DOM } \delta 1 \circ \dots \circ \delta i] \\ \text{DTRS} & \langle [\text{DOM } \delta 1], \dots, [\text{DOM } \delta i] \rangle \end{bmatrix}$$

LP (Linear Precedence) rules

Shuffling of *not only*

(28) not only-ph \rightarrow

```
[■MOTHER&[■CON] & not only @HEAD&[2]
@DOM &<[DOM δ1∘δ2>] @DTRS
&<[■PHON &<not only> @CON] & not only @SYN|
VAL&COMPS<[1]>@HEAD &[2] @DOM &δ2
,[1]/■HEAD&[2]@DOM &δ1 ] ]
```

P (Linear precedence) rule

```
29) [■PHON&<not only>@CONJ&not only ]< [■INFO
-STRUCT&[FOC δne−list] ]
```

30) *by selling books not only

An example

32) <not only> by <not only> selling <not only> books <*not only>

1.2.2 Not only too high cases

- Coordinate ellipsis in the second conjunct (Hofmeister 2010 for either)
- 33) You'll either [need to bring a passport] or [need to bring a birth certificate].
- 34) Either [Congress will pass the legislation] or [Congress will lose our confidence].

Not only...but also...

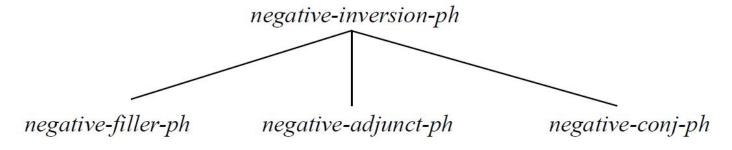
- a. You can use this tool not only [to upgrade Windows 7 or Windows 8.1 PCs], but also [to upgrade Windows 10 PCs].
 - b. I was able not only [to cross the street] but [to make it down Fruit Street to Mass General].
 - c. He is known not only [for his accomplishments on the golf course], but [for his extravagant lifestyle.

1.3 Negative Inversion

36) negative-inversion-ph (Maekawa 2012) →

37) Constructional hierarchy of the negative-inversion-ph (Maekawa 2012)

38) Constructional hierarchy of the negative-inversion-ph (modified)



39) *negative-inversion-ph* (modified) →

```
■SUBJ &<>
@SLASH &{([3][NEG-])}
@HD-DTR &[■HEAD&[■INV &+@AUX &+]
@VAL &/[■SUBJ &<[1]NP>
@COMPS&<[2]VP[SLASH {([3]),...}]>]]@NON-HD-DTRS&/<([NEG+],[1],[2]>]
```

Constraints on negative-conj-ph

40) negative-conj-ph →

```
[■HD-DTR &conj[■NEG &+ @CONJ &¬ null @HEAD &[4]]

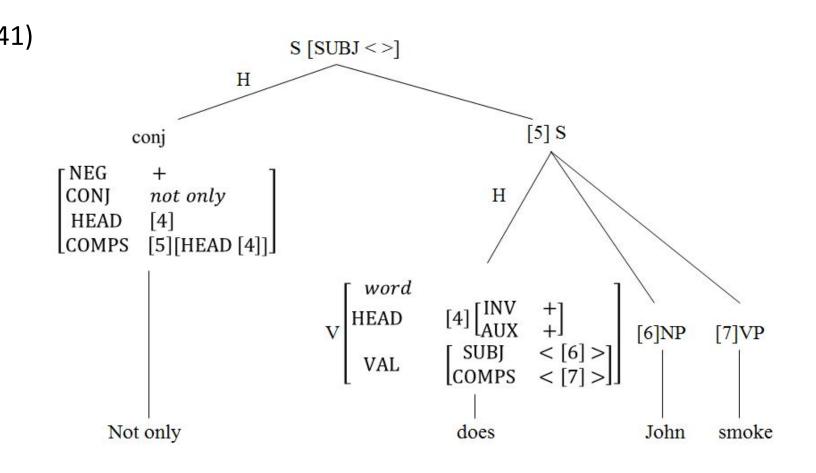
©COMPS&[5][HEAD [4]] ] @NON-HD-DTRS&[5]S[■H]

-DTR &[■word& @INV &+ @AUX &+

©SUBJ &<[6]NP> @COMPS&<[7]VP[SLASH {([3]),...}]>]@NON-HD

-DTRS&<[6],[7]> ]
```

An example



Take-home messages

Not only...but also... and not...but...

... Not quite as similar as they may seem!

Not only triggers sub-aux inversion in the clause-initial position, which sets it apart from not or only.

Various word order possibilities of *not only* can be simply explained using the word order domain approach (and coordinate ellipsis).

Future work: semantics!

Thank you!

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