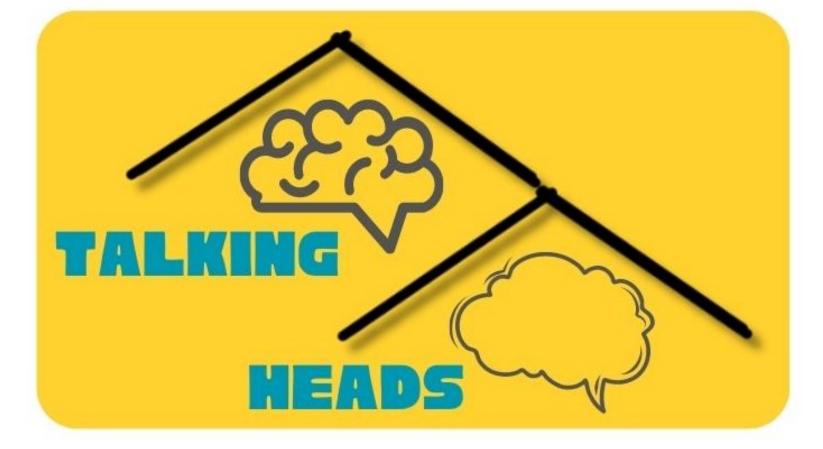
July 10-14 2023



:LOT

The syntax of talking heads

Martina Wiltschko

ICREA, Universitat Pompeu Fabra





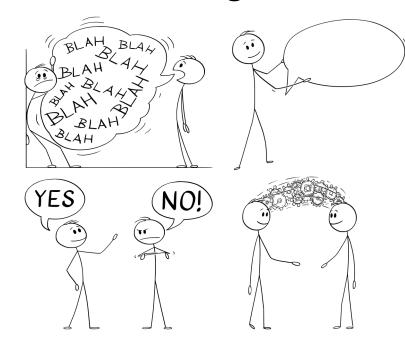
Who am I?

- Who am I?
- Where am I (from)?
- Why linguistics?
- What is my main interest in linguistics?
- What do I want to achieve in this course?

http://martinawiltschko.com/

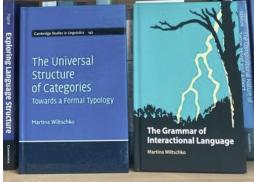
The syntax of talking heads

We are talking heads

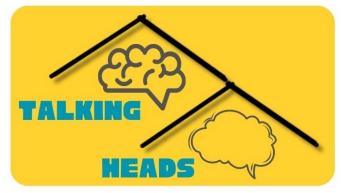


We have talking heads





Overview of the course



- 1. The framework: reframing thoughts in interaction
- 2. Discourse markers: using (new) thoughts.
- 3. A new window: telling yourself what you think??
- 4. The syntax of emotions
- 1. The syntax of talking heads

Classic sentences of generative analyses:

(1) Which books did you file without reading?
(2) Who did you think (*that) would win?
(3) Mary brought the bread, John the cheese, and Bill the wine.

- (4) a. I want to/wanna read a book.
 - b. What do you want to/wanna read?
 - c. Who do you want to/*wanna read a book?

• What happens here?



https://www.youtube.com/watch?v=5gocFvDFFT4

• What happens here?

Hey... are you a talking head?



MA

As an artificial intelligence developed by OpenAl, I don't have a physical form, so I'm not a "talking head" in the traditional sense. However, I can process and respond to text-based inputs, effectively "talking" through written language. My purpose is to provide accurate information, answer questions, and help users with a variety of tasks.

information, answer questions, and help users with a variety of tasks.

MA okay... do you have syntactic heads?

\$

In the field of linguistics, a "syntactic head" (also known simply as a "head") is the word that determines the syntactic type of the phrase of which it is a part. For example, in the noun phrase "the big red ball," the noun "ball" is the syntactic head because it determines the overall behavior of the phrase.

As an Al, I don't "have" syntactic heads, but I am designed to understand and generate language based on the principles of grammar, including the concept of syntactic heads. So, when I process language, I use syntactic information (among other things) to understand and generate coherent and meaningful responses. I can understand the structure of phrases and sentences, identifying heads, dependents, and other elements to accurately interpret and produce human language.

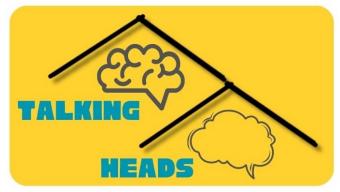
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Discussion questions



- Are these "talking heads"?
- Do they have talking heads?
- What does classic linguistics have to say about these examples?
- What about generative linguistics?

Today

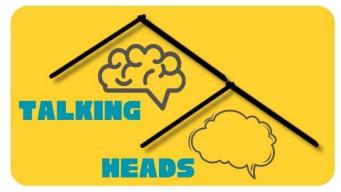


- 1. The framework: reframing thoughts in interaction classic assumptions "classic" generative assumptions
- 2. What are syntactic heads? History current assumptions: MERGE vs. CARTOGRAPHY my assumptions: the universal SPINE
- 3. Interactional language

some examples how can we analyse i-language with classic and/or generative assumptions?

4. The interactional spine hypothesis introducing the framework conceptual and methodological implications

Today



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Domains of linguistics

Phonetics

Phonology

Morphology

Syntax

Semantics

Pragmatics

Domains of linguistics

Phonetics

Phonology

Morphology

Syntax

Semantics

Pragmatics

Discussion question

What are the units of analysis?

What are the **ingredients** of each domain?

What are the **criteria** to be included in each domain?

How do these domains **relate** to each other?

... in a model of **grammar**?

... in a model of the **knowledge of language**?

What is syntax?

What are the **units of analysis?**

What are the **ingredients** of syntax?

What are the **criteria** to be considered part of syntax??

How does syntax **relate** to other domains?

... in a model of **grammar**?

... in a model of the **knowledge of language**?

What is syntax?

Classic unit of analysis: Sentence

What is a sentence?

What is syntax?

Classic unit of analysis: Sentence

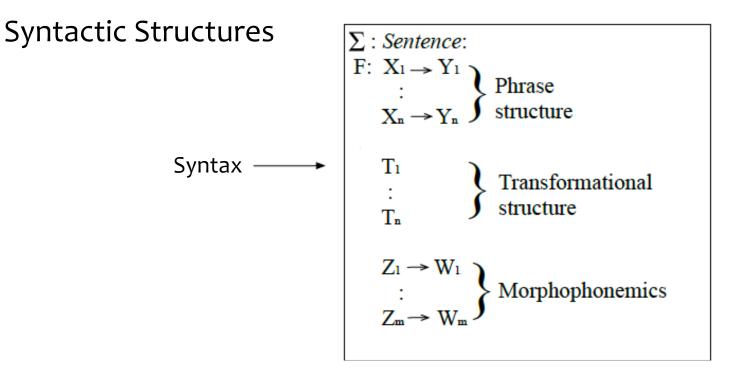
There is a lot at stake

- Units of analysis express thoughts
- Subject predicate constructs
- Semantic analyses: Truth conditions

What is a sentence?

Is it a similar construct than a **word?** The status of "constructs"/"construction"?

Decomposing syntax



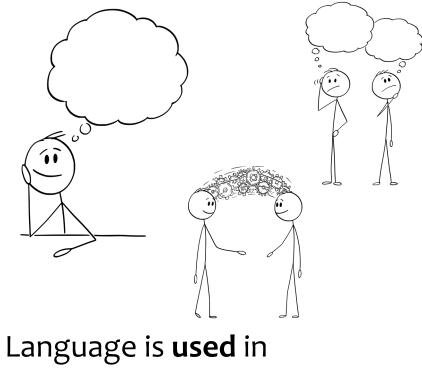
• The building blocks can be smaller than words

(1)
$$Af + v \rightarrow v + Af #$$

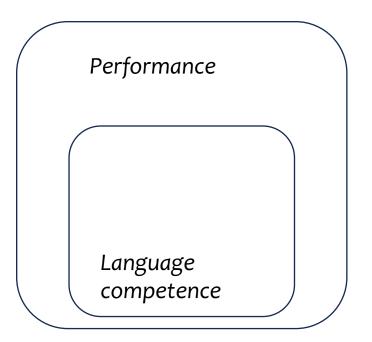
SS: 39 (29ii)

Classic (generative) assumptions

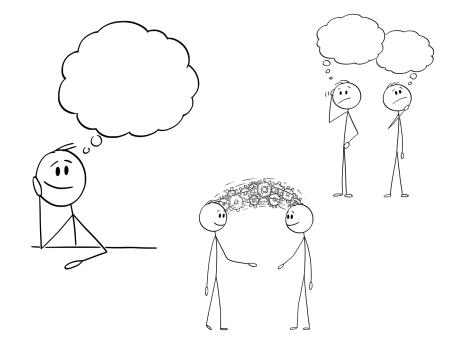
Language is primarily for thought



communication



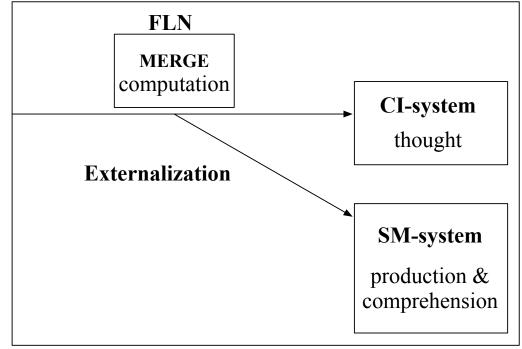
Language is primarily for thought



Language is **used** in communication

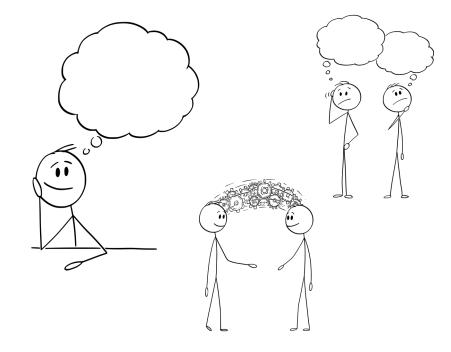
Language is primarily for thought





Alternatives

Language is primarily for thought



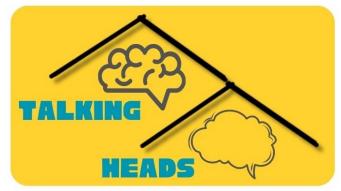
Language is **used** in communication

Communicative competence

"the **ability** to function in a truly communicative setting" Savignon (1972)

Campbell and Wales 1970 Hymes 1972, Keenan (Ochs) 1974

Today

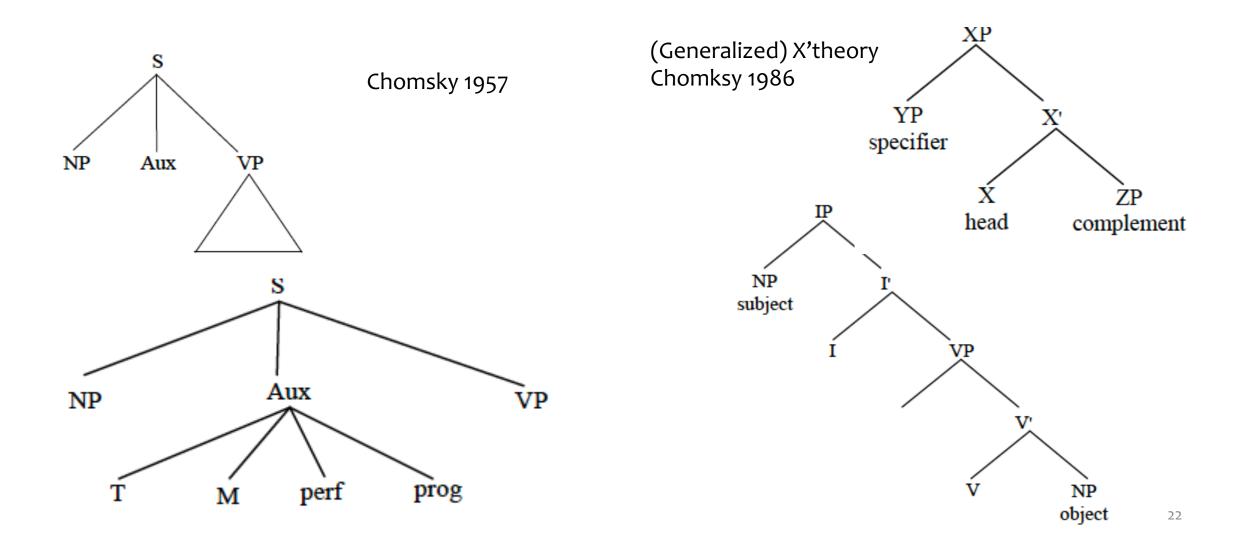


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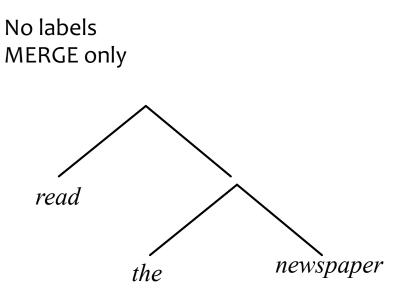
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What are syntactic heads?



What are syntactic heads?

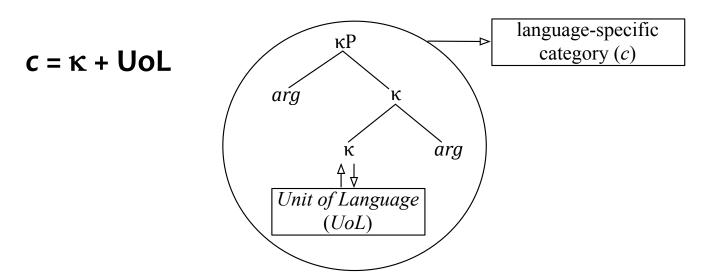
[Mood_{speech-act} frankly Cartography [Mood_{evaluative} fortunately [Mood_{evidential} allegedly [Mod_{epistemic} probably [T_{past} once [T_{future} then [Mod_{irrealis} perhaps [Mod_{necessity} necessarily [Mod_{possibility} possibly [Asp_{habitual} usually [Asp_{repetetive} again [Asp_{frequentative(I)} often [Mod_{volitional} intentionally [Asp_{celerative(I)} quickly [T_{anterior} already [Asp_{terminative} no longer [Asp_{continuative} still [Asp_{perfect(?)} always [Asp_{retrospective} just [Aspproximative soon [Asp_{durative} briefly [Asp_{generic/progressive} characteristically [Aspprospective almost [Asp_{sg.completive(I)} completely [Asp_{pl.completive} tutto [Voice well [Asp_{celerative(III}) fast/early [Asp_{repetetive(II)} again [Aspfrequentative(II) often

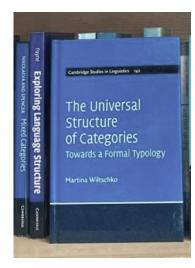


Chomsky 1995; Collins 2002

The universal spine hypothesis

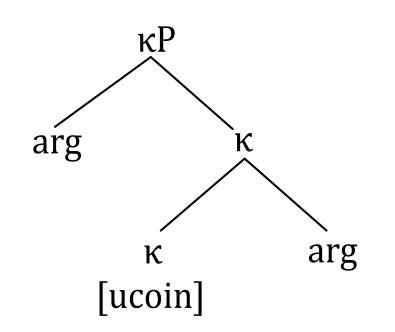
Language-specific categories (c) are constructed from a small set of universal categories κ and language-specific UoLs

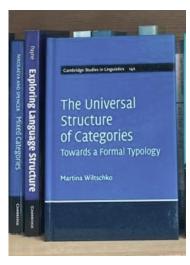




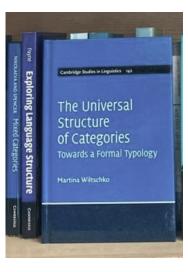
The universal structure of the categorizer

- Transitive
- Relational
- Possibility for language-specific substantiation





the spine



A way to understand universals and variation in the inventory of **grammatical** categories



Linking

Anchoring

PoV

Classifying

the spine

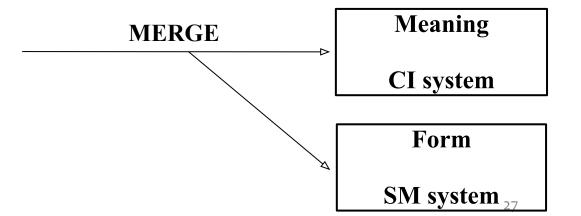
principle of compositionality

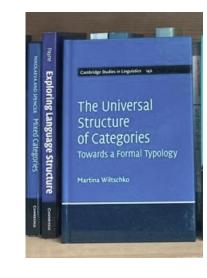
The meaning of a **complex expression** is determined by the meaning its constituent parts **and they way they are combined.**

And a way to understand how composition (syntax) contributes to meaning

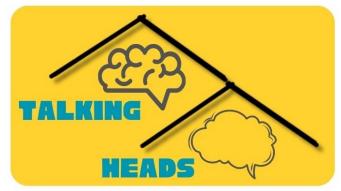
Grammar =_{def}

an intrinsically structured system that **mediates the relation between form and meaning** of complex expressions





Today



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- 3. Interactional language some examples

how can we analyse i-language with classic and/or generative assumptions?

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Interactional language

Language changes in interaction

- (1) a. The dog is in front of the fan
 - b. **Wow**, the dog is in front of the fan
 - c. **Oh,** the dog is in front of the fan
 - d. The dog is in front of the fan, **eh**?
 - e. The dog is in front of the fan, huh?
 - f. But Charlie, the dog is in front of the fan
 - g. The dog is in front of the fan, **Charlie**.

Interactional language

- (1) a. The dog is in front of the fan
 - b. **Wow**, the dog is in front of the fan
 - c. **Oh,** the dog is in front of the fan
 - d. The dog is in front of the fan, **eh**?
 - e. The dog is in front of the fan, huh?
 - f. But Charlie, the dog is in front of the fan
 - g. The dog is in front of the fan, **Charlie**.

• Discussion question

Are these UoLs part of the sentence? Do they belong to syntax? Do they belong to competence? How do we analyse them? Truth conditions?

Austrian German: geh/ma

(1) [Die Lena hot an neichn Hund]Det Lena has a new dog'Lena has a new dog.'

(2) **Geh** [die Lena hot an neichn Hund] [Die Lena hot **doch** an neichn Hund] You should know this

(3) **Ma** [die Lena hot an neichn Hund] [Die Lena hot **leicht** an neichn Hund I'm surprised

Austrian German: geh/ma

Context: Mariana and Reingard are on a walk and from a distance they see their friend Lena who is walking with a dog, they have never seen before:

- R: a. * Die Lena hot an neichn Hund 'Lena has a new dog.'
 - ***Geh** die Lena hot an neichn Hund*Die Lena hot **doch** an neichn Hund
 - c. **Ma,** die Lena hot an neichn Hund Die Lena hot **leicht** an neichn Hund

You should know this

I'm surprised

Austrian German: geh/ma

- Vielleicht wü die Lena an von unsare Hundal Maybe wants det Lena one of our dog.dim
 'Maybe Lena wants one of our puppies.'
- R: a. ?? Die Lena hot an neichn Hund 'Lena has a new dog.'
 - b. **Geh** die Lena hot an neichn Hund Die Lena hot **doch** an neichn Hund
 - c. * Ma, die Lena hot an neichn Hund* Die Lena hot leicht an neichn Hund

You should know this

I'm surprised

Double positives: distributional restriction

- I: Pedro quiere un perro.Peter want a dog.'Peter wants a dog.'
- R1: Sí
- R2: Sí sí!

Double positives: distributional restriction

- I: Pedro quiere un perro.Peter want a dog.'Peter wants a dog.'
- R1: Sí
- R2: Sí sí!

- R3: Claro que sí. Clear that yes 'Of course.'
- R4: *Claro que sí sí.

Double positives: interpretive restriction

- I: Da Peta hot si an fuas brochn.
 DET Peter has REFL INDEF foot broken
 'Peter broke his leg.'
- R: Jo jo. \rightarrow p = old information

"responding with doubled *ja* "indicates that the prior utterance contains already known information (...) and that therefore the current action should be stopped." Golato & Fagyal 2008: 249

I: Da Peta hot si an fuas brochn. DET Peter has REFL INDEF foot broken

R: i)Jo!Yes HL% \rightarrow p = old information

I: Da Peta hot si an fuas brochn. DET Peter has REFL INDEF foot broken

R: i)Jo!
Yes HL%ii)Jo?

Yes LH% \rightarrow p = new information

- I: Da Peta hot si an fuas brochn. DET Peter has REFL INDEF foot broken
- R: i) Jo jo! \rightarrow p = old information
 - ii) Jo jo? \rightarrow p = old information

- I: Da Peta hot si an fuas brochn. DET Peter has REFL INDEF foot broken
- R: i) Jo? (Is des wirkli woa?) 'Is this really true?' (Warum sogst ma den des?) 'Why are you telling me that?'
 ii) Jo jo? (*Is des wirkli woa?) 'Is this really true?' (Warum sogst ma denn des?) 'Why are you telling me that?'

huh as a universal word

Extract 1 American English [NB, 1:1:19]

- 1. G It's not too bad, 2. E Huh? $[h\tilde{a} \nearrow]$
- 3. G 'S not too bad,

Dingemanse et al. 2013

≈ There is a problem in the communication?
≈ I don't understand?
≈ Can you clarify?
≈ What?

huh as a universal word

Extract 1 American English [NB, 1:1:19]

- 1. G It's not too bad,
- 2. E Huh? [hã↗]
- 3. G 'S not too bad,

It's a universal

Extract 2 Siwu (Ghana) [Maizel_1017013]

- 1. A mm, ne uiba ne YES SO he:NOT:come SO Mm, so he didn't come.
- B ã? [ẽ: ↗]
 A nɛ uiba nɛ
- ne uiba ne
 - so he:NOT:come so
 - so he didn't come.

Extract 3 Lao (Laos) [CONV_050815c_03.10]

- nòòj4 bòò1 mü2 sùak4 vaa3 nòòj4 1. A N. NOT have rope Q.MARK N. Noi, don't you have any rope, Noi?
- **aa?** [hã ↗] 2. В
- 3 Α bòò1 mü2 sùak4 vaa3 NOT have rope Q.MARK Don't you have any rope?

Dingemanse et al. 2013

huh as a universal word

It's a universal

Table 1. Question words ("what?") and interjections ("huh?")

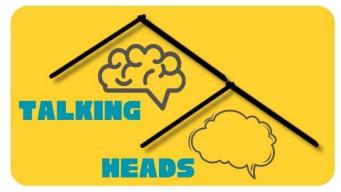
 for initiating repair in ten languages.

Language	Question word	Interjection
Cha'palaa	ti	?a:\
Dutch	wat	hз≯
Icelandic	k ^h va:θ	ha 🔪
Italian	k ^h oza	ε: ≯
Lao	i',jiaŋ	hã: 🗡
Mandarin Chn.	şəmə	ã: ↗
Murriny Patha	taŋgu	ã: ↗
Russian	∫to	a: 🗡
Siwu	be:	ã: ↗
Spanish	ke	e⊅

doi:10.1371/journal.pone.0078273.t001

Dingemanse et al. 2013

Today

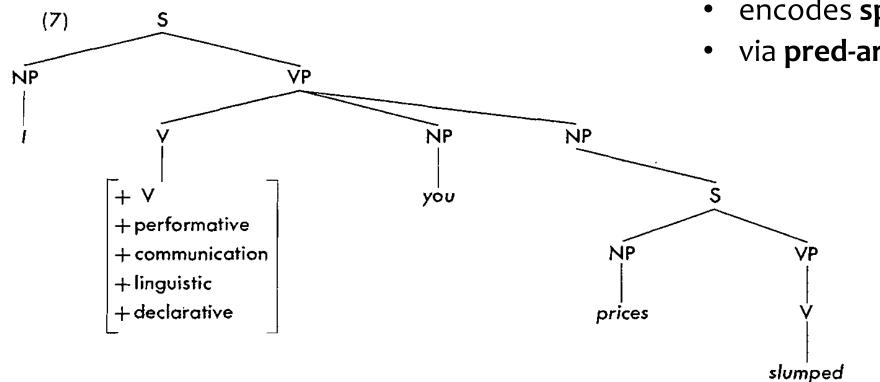


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Performative Hypothesis

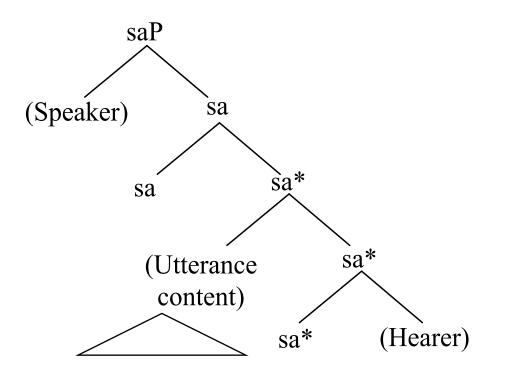


Syntax at the top:

- encodes **speech acts**
- via pred-arg structure

Ross 1970

(Neo)-Performative Hypothesis

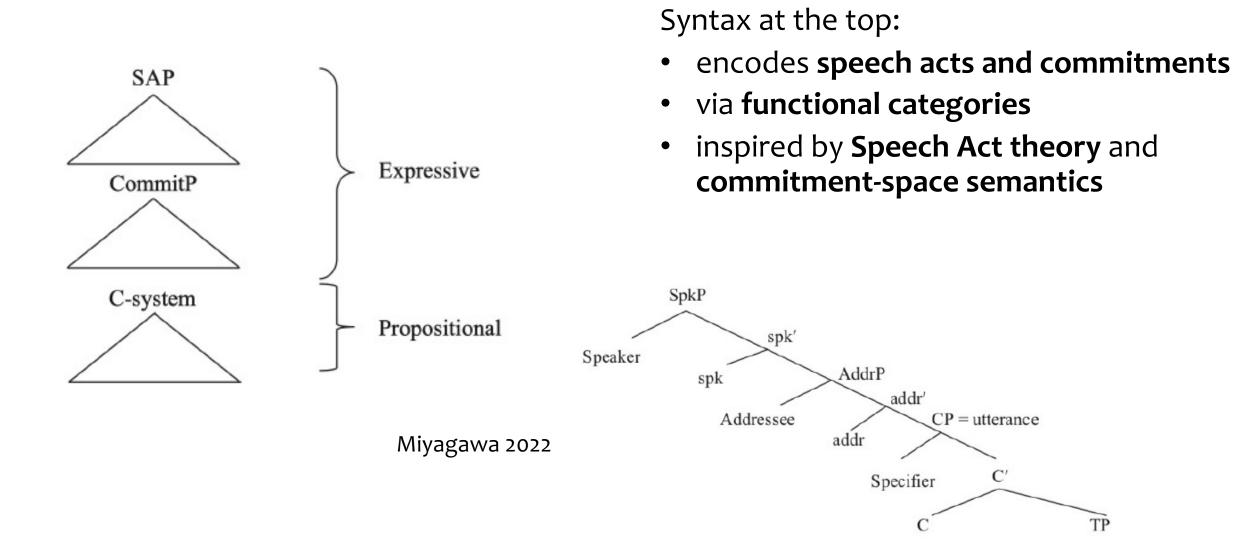


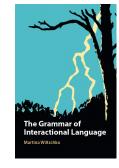
Syntax at the top:

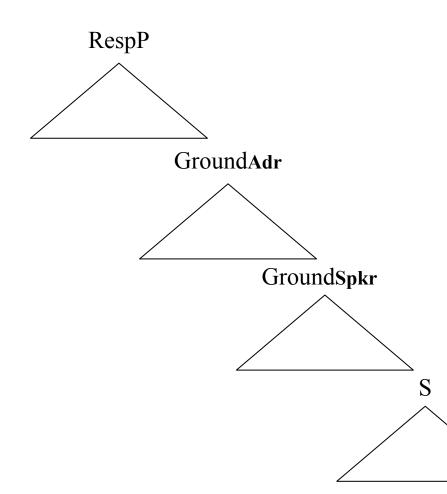
- encodes **speech acts**
- via functional categories
- inspired by **Speech Act theory**

Speas & Tenny 2003: 320

(Neo)-Performative Hypothesis

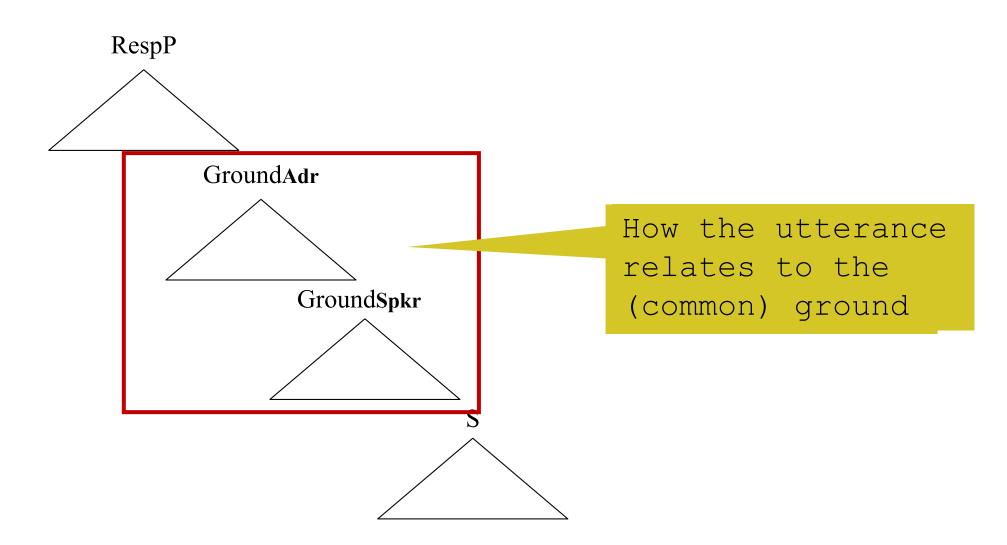


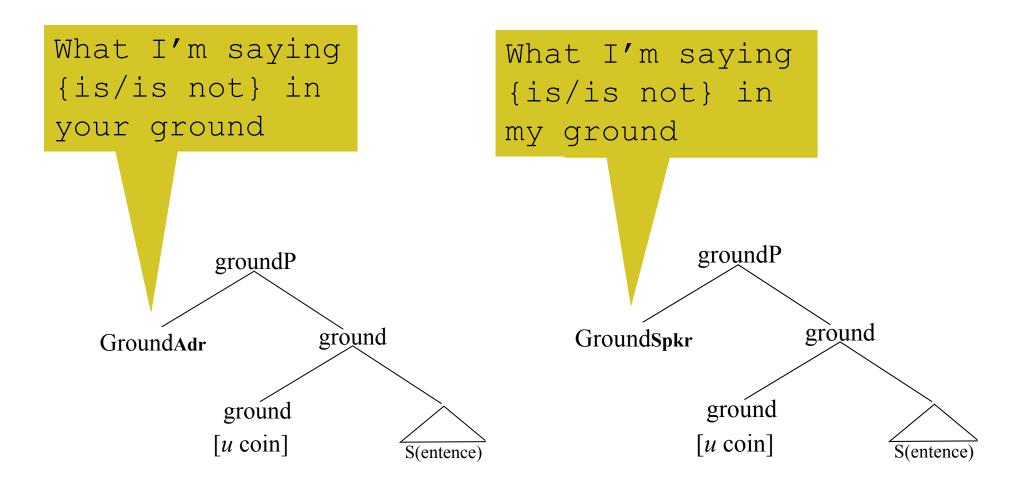


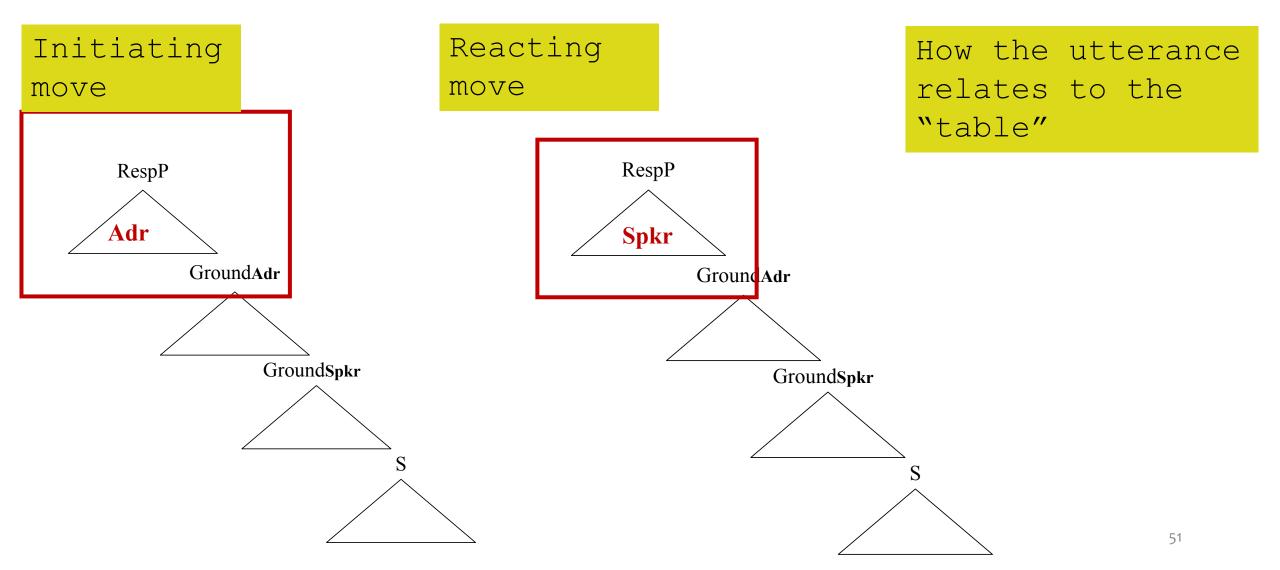


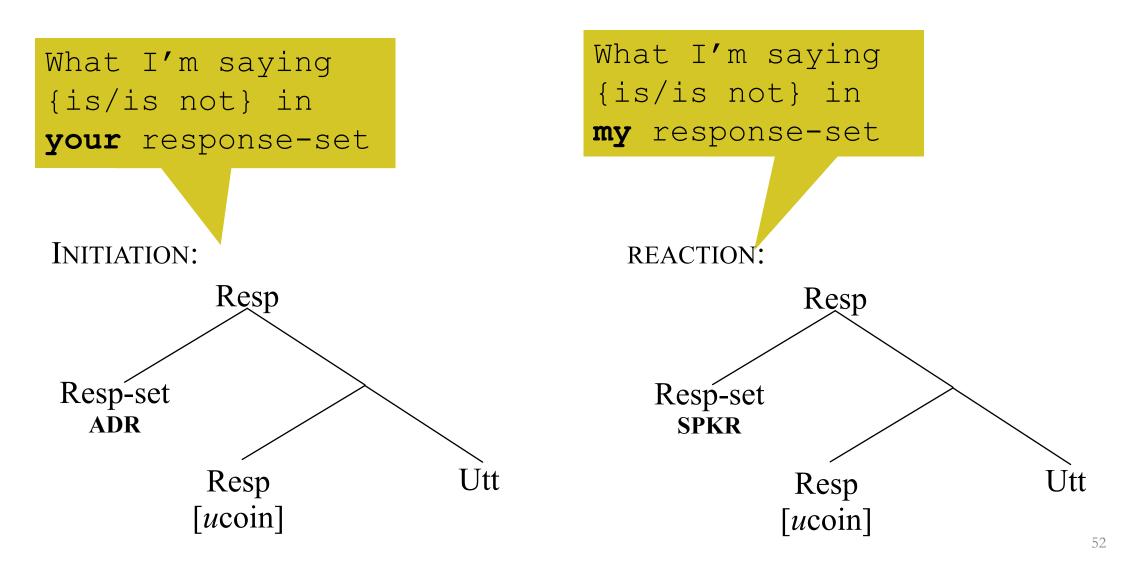
Syntax at the top:

- regulates grounding and tabling/turntaking
- via functional categories
- inspired by Conversation Analysis and Interactional linguistics









Not everything is ON the spine

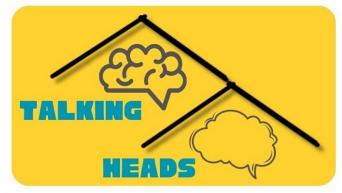
- There still is room for pragmatics off the spine
 - Not all moves have to by typed as initiating or reacting.
 - Move-typing is only necessary when the current move violates the normal course of an interaction

Preference for agreement and contiguity <u>Sacks 1987</u>

Violating maxims

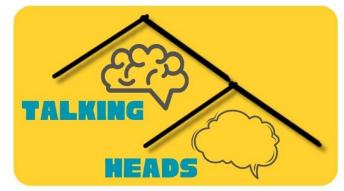
Westera 2013 on S-final rise

Overview of the course



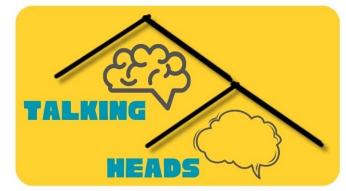
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- 4. The syntax of emotions
- 1. The syntax of talking heads

How to prepare for tomorrow



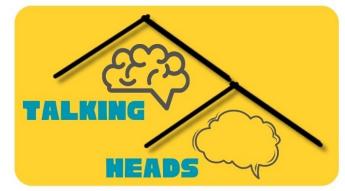
- Come with a unit of i-language in a language you speak
- Tips for finding one:
 - What do you say when you:
 - request confirmation (something S-final)
 - If you have to disagree (something S-initial)
 - If you are surprised (something S-initial, or free-standing)
 - If you tell the addressee something they already know
 - ...

How to prepare for tomorrow



- Come with a unit of i-language in a language you speak
- Think about its...
 - Function
 - Distribution
 - Intonation
 - Selectional restrictions
 - ...

How to prepare for tomorrow



- Come with a unit of i-language in a language you speak
- Think about its...
- Is it describable/analysable in terms of the ISH? RespP: initiation or response GroundP: Adr or Spkr-oriented? XP or X