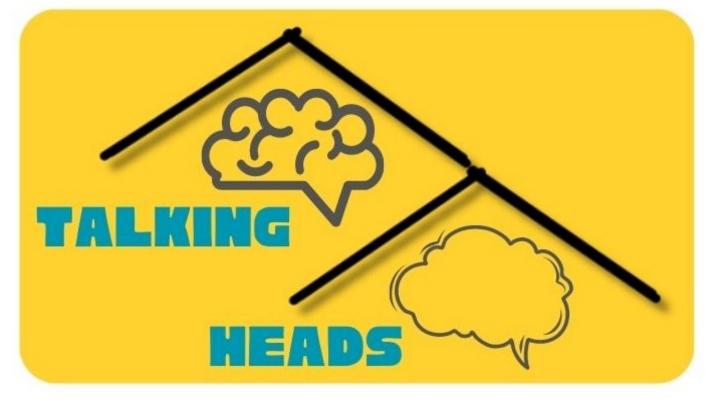
July 10-14 2023



The syntax of talking heads Class 3: Self-talk

:LOT

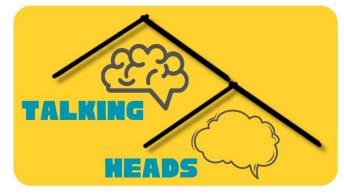




Martina Wiltschko

ICREA, Universitat Pompeu Fabra

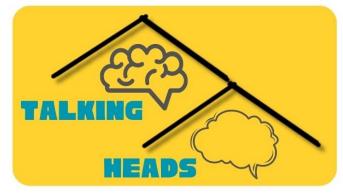
Overview of the course



- 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
- 5. The syntax of talking heads

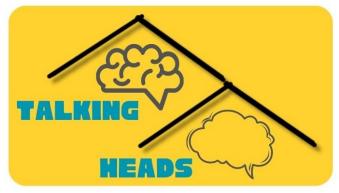


Today



• A little self-reflection:

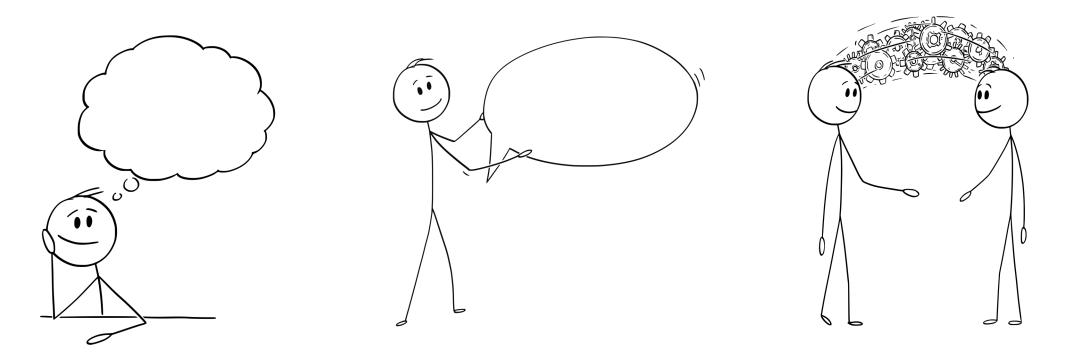
- How do we think?
- How do we say what we think? And how do we talk to others about it?
- Self-talk as a window into the syntax at the very top
 - Properties of (different types of) self-talk favor the Interactional Spine Hypothesis over "Speech-act structure"
- Self-talk as a window into the language faculty
 - If linguistic interaction is built into grammar, language must be an instrument for thought and communication
 - Properties of self-talk suggest that linguistic interaction is not only a matter of externalization



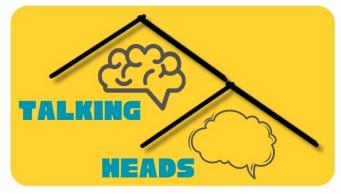
Today

• A little self-reflection:

- How do we think?
- How do we say what we think?
- And how do we tell others about it?

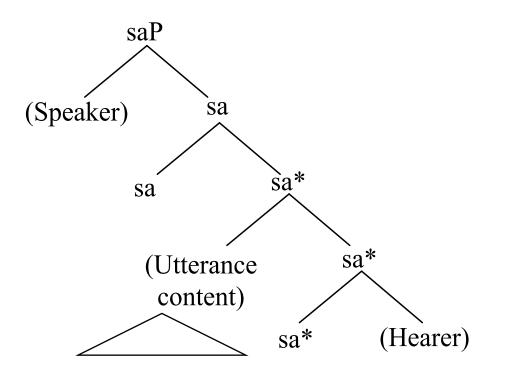


Today



- A little self-reflection:
 - How do we think?
 - How do we say what we think? And how do we talk to others about it?
- Self-talk as a window into the syntax at the very top
 - Properties of (different types of) self-talk favor the Interactional Spine Hypothesis over "Speech-act structure"
- Self-talk as a window into the language faculty
 - If linguistic interaction is built into grammar, language must be an instrument for thought and communication
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(Neo)-Performative Hypothesis

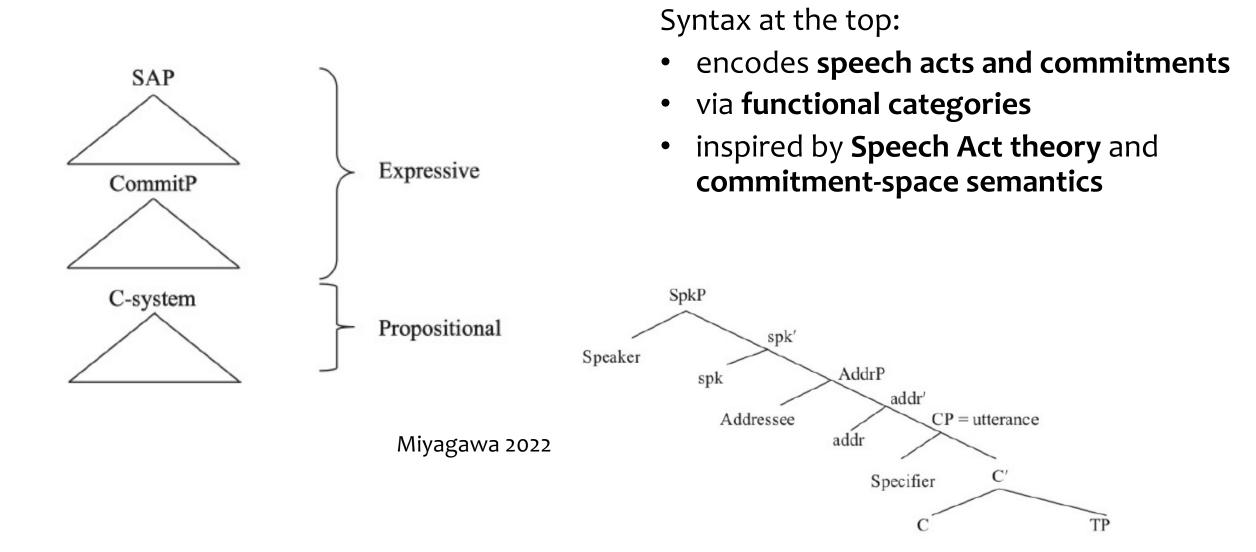


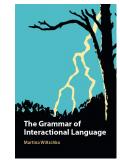
Syntax at the top:

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

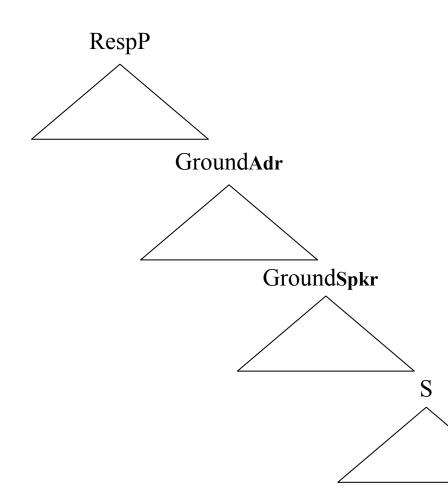
Speas & Tenny 2003: 320

(Neo)-Performative Hypothesis





The interactional spine hypothesis (ISH)



Syntax at the top:

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

How do we decide?

ISH vs. (Neo)PH

	ISH	(Neo)PH
Hierarchy:	X > A > S	S > A
Regulates: Interaction		Speech acts
Roles:	Ground holders Turn-holders	Speaker Addressee

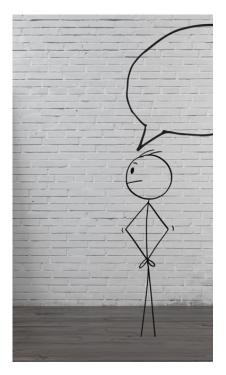
ISH vs. (Neo)PH

	ISH	(Neo)PH	Evidence from
Hierarchy:	X > A > S	S > A	2 types of self talk differences to other-oriented talk
Regulates:	Interaction	Speech acts	absence of restrictions on clause- types/speech acts in self talk
Roles:	Ground holders	Speaker Addressee	restrictions on verbs of cognition

Two types of self-talk

I-centered self-talk:

(1) **I'm** such an idiot!

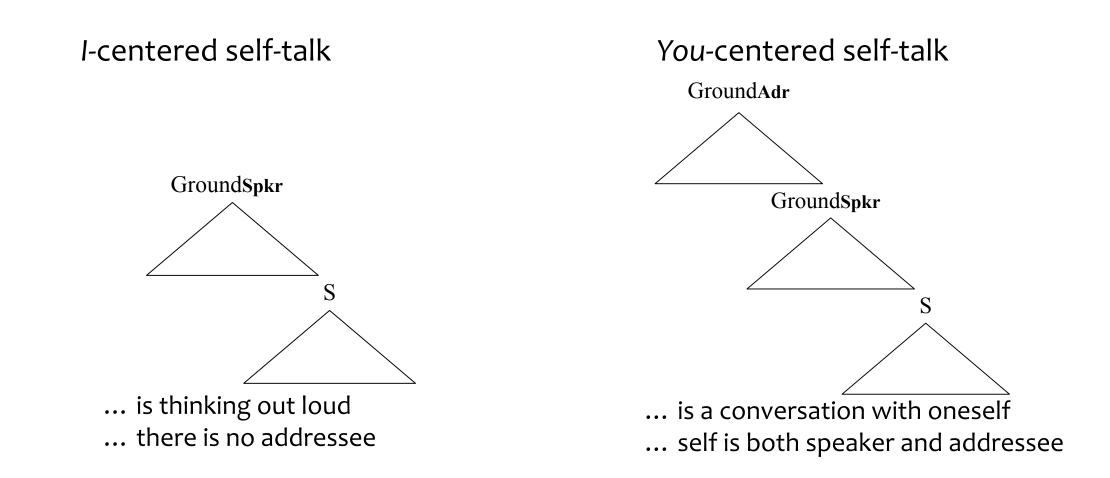


You-centered self-talk (2) You're such an idiot



Holmberg 2010

Two types of self-talk: a structural analysis



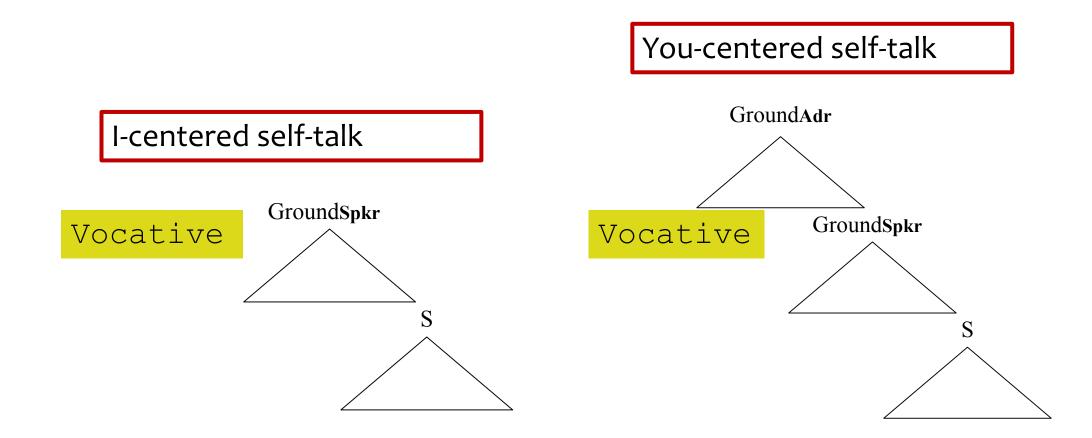
Ritter & Wiltschko, to appear.

Evidence from Vocatives

Vocatives cannot occur in I-centered self-talk

- (1) Other-oriented conversation (Someone else to Martina)
 - a. Martina, you are an idiot.
 - b. **Martina**, I am an idiot.
- (2) Self-talk: Martina to herself
 - a. Martina, you are an idiot.
 - b. * Martina, I am an idiot.

Evidence from Vocatives



Evidence from Imperatives

Imperatives cannot be used in I-centered self-talk

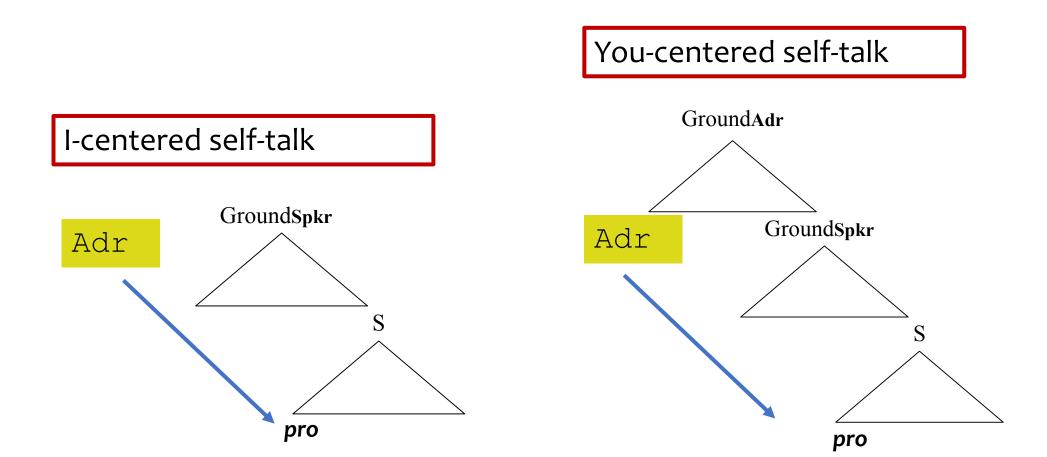
Other-oriented conversation

- (1) a. Stop putting **yourself** down!
 - b. Stop putting **me** down!

Self-talk

- (2) a. Stop putting **yourself** down!
 - b. * Stop putting **me/myself** down!

Evidence from Imperatives

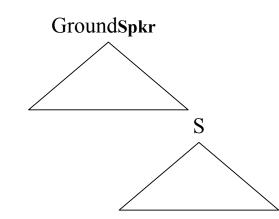


16

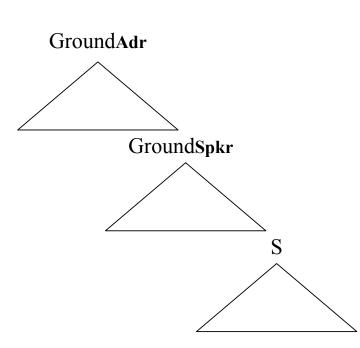
ISH vs. Neo-PH

I-centered self-talk is structurally deficient

I-centered self-talk



you-centered self-talk

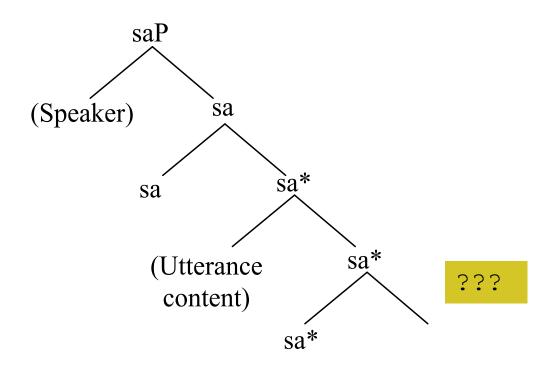


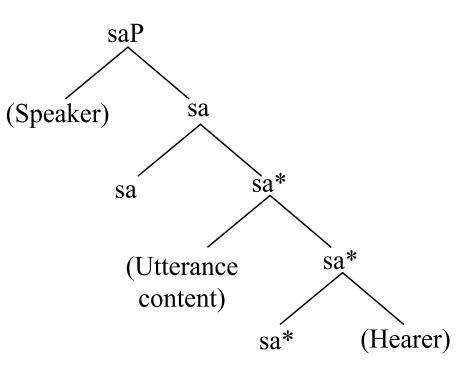
ISH vs. Neo-PH

I-centered self-talk
is intransitive

I-centered self-talk

You-centered self-talk

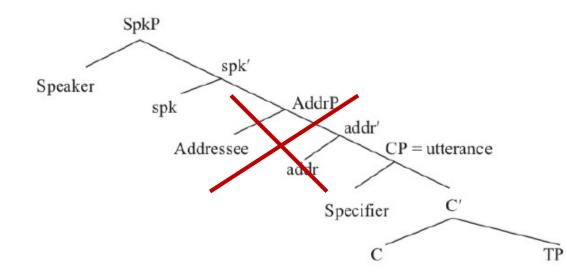




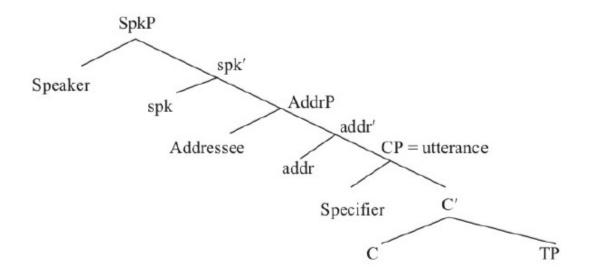
ISH vs. Neo-PH

I-centered self-talk lacks structure in the middle

I-centered self-talk



You-centered self-talk

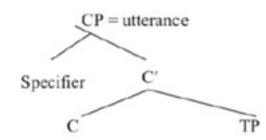


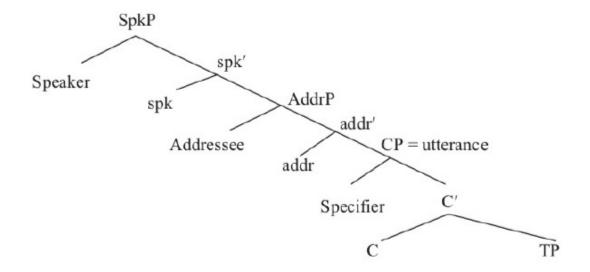
Saving the Neo-PH??

I-centered self-talk lacks SA structure

You-centered self-talk

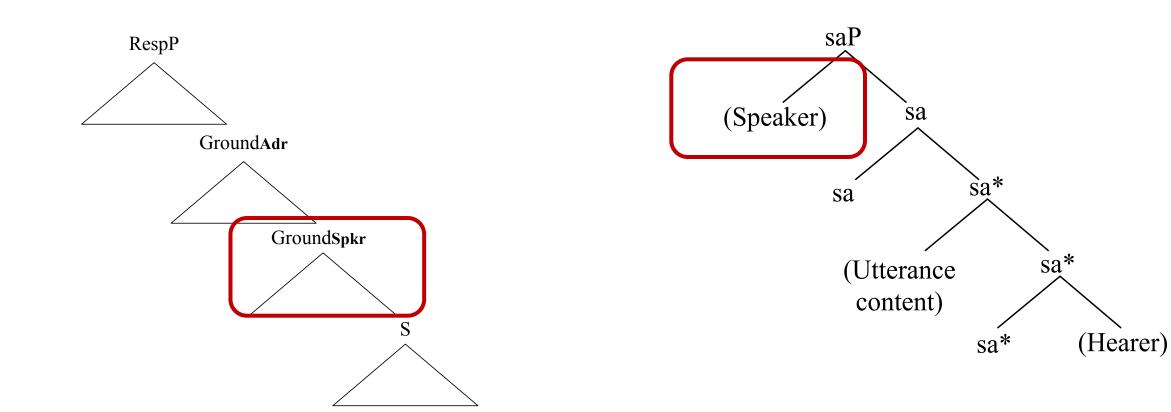
I-centered self-talk





Is there evidence for Speaker role?

ISH vs. Neo-PH



(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] A-oriented: You should know this

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

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

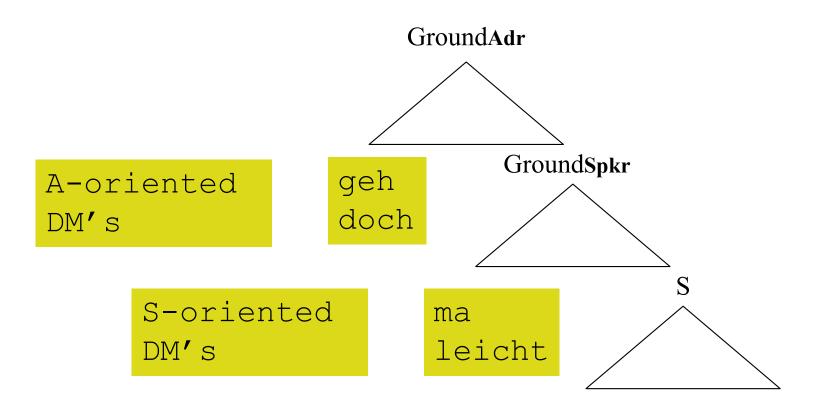
A-oriented: You should know this

S-oriented: I'm surprised

- 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

A-oriented: You should know this

S-oriented: I'm surprised



A-oriented DMs are restricted to youcentered self-talk

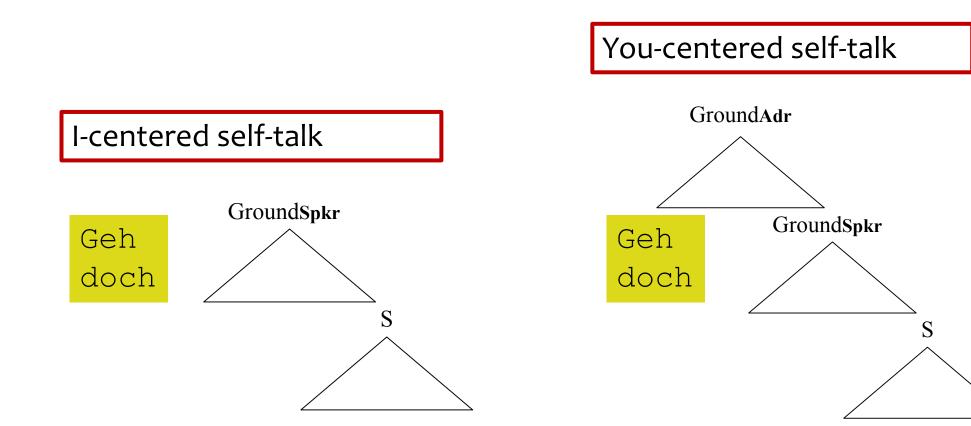
I-centered self-talk

- (1) a. * **Geh** I bin vü'z potschart. Geh_{Adr} [I am much-too clumsy]
 - b. * I bin **doch** vü'z potschart. [I am prt_{Adr} much-too clumsy]
 - c. * **Geh** I bin **doch** vü'z potschart. Geh_{Adr} [I am prt_{Adr} much-too clumsy]

you-centered self-talk

- (2) a. **Geh** du bist vü'z potschart. Geh_{Adr} [you are much-too clumsy]
 - b. Du bist **doch** vü'z potschart.
 [you are prt_{Adr} much-too clumsy]
 - c. **Geh** du bist. **doch** vü'z potschart. Geh_{Adr} [you are prt_{Adr} much-too clumsy]

A-oriented DMs are restricted to youcentered self-talk



27

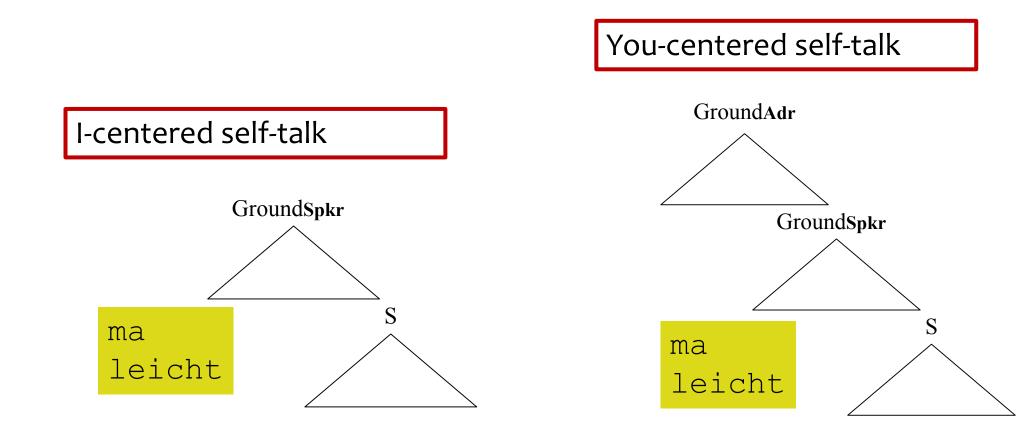
S-oriented DMs are possible in both types of self-talk

I-centered self-talk

- (1) a. **Ma** I hob gwonna. Ma_{Spkr} [I have won]
 - b. I hob **leicht** gwonna.
 [I have prt_{spkr} won]
 - c. **Ma** I hob **leicht** gwonna. Ma_{Spkr} [I have prt_{spkr} won].

you-centered self-talk

- (2) a. **Ma** du host gwonna. Ma_{Spkr} [you have won]
 - b. Du host leicht gwonna.
 [you have prt_{spkr} won]
 - c. Ma Du host leicht gwonna. Ma_{Spkr} [You have prt_{spkr} won].



Saving the Neo-PH??

CP = utterance

Specifier

C

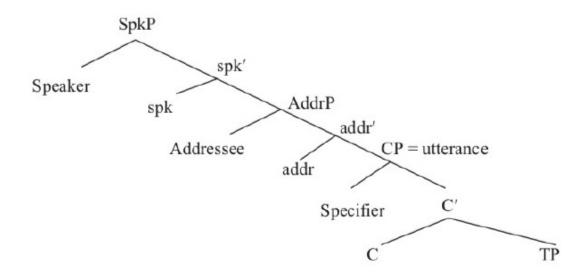
C'

TP



I-centered self-talk

You-centered self-talk



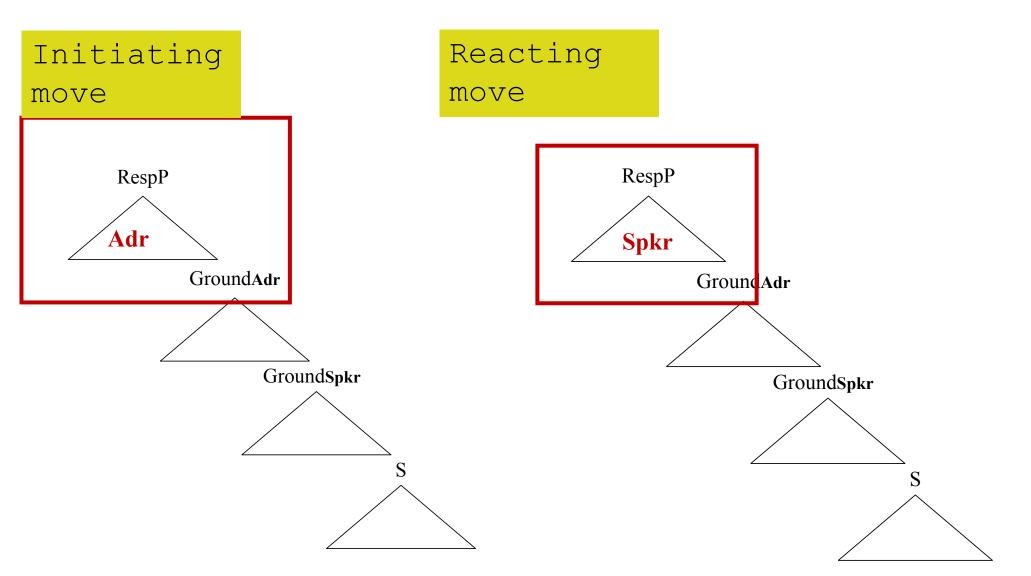
ISH vs. (Neo)PH

	ISH	(Neo)PH	Evidence from
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Regulates :	Interaction	Speech acts	absence of restrictions on clause- types/speech acts in self talk
Roles:	Ground holders	Speaker Addressee	restrictions on verbs of cognition

ISH vs. (Neo)PH

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The interactional spine hypothesis (ISH)



33

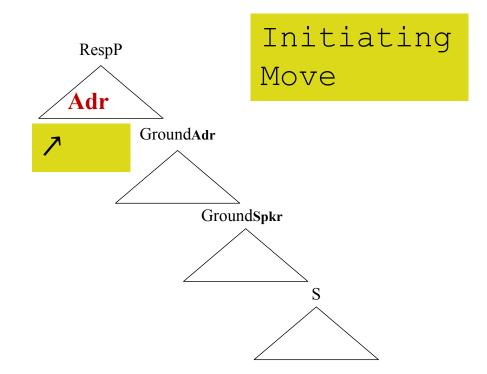
Request for response ↗

Other-oriented conversation

- (1) a. What are you doing *∧*
 - b. What are you doing \searrow

Self-talk

- (2) a. *What are you doing ↗
 - b. What are you doing ↘
- (3) a. *What am I doing \nearrow
 - b. What am I doing \searrow



- \checkmark arises naturally
- pitch declines automatically with the decrease in subglottal air pressure
- Not dependent on presence of RespP (Cohen & Collier 1982)

Response marker: well

Other-centered conversation

- (1) I: Why are you not going to skydive with the others?
 - R: Well, I want to ... but I'm too old.
- (2) I: Why am I not invited for the sky-diving party?
 - R: Well, they want you to come ... but you're too old.

Self-talk: looking at a group of skydivers

- (3) a. (*Well) I want to ... but I'm too old.
 - b. (*Well), they want you to come ... but you're too old.

Reacting

GroundAdr

GroundSpkr

move

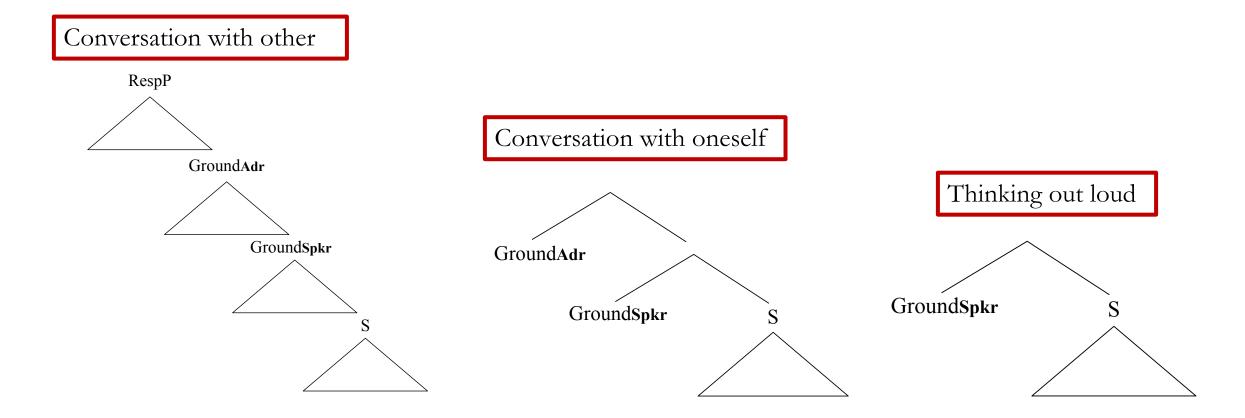
RespP

Spkr

well

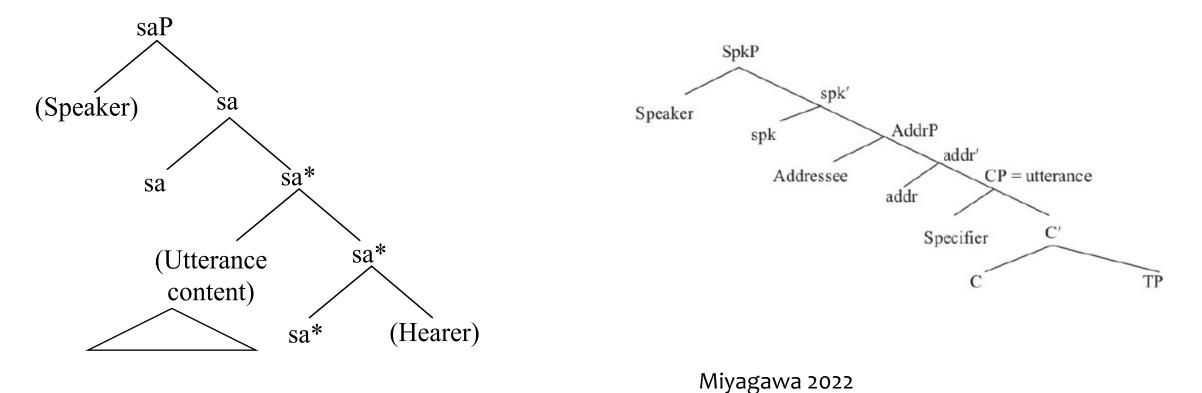
Modes of talking

Degrees of structural deficiency



Ritter & Wiltschko, to appear.

(Neo)-Performative Hypothesis



Speas & Tenny 2003: 320

???

ISH vs. (Neo)PH

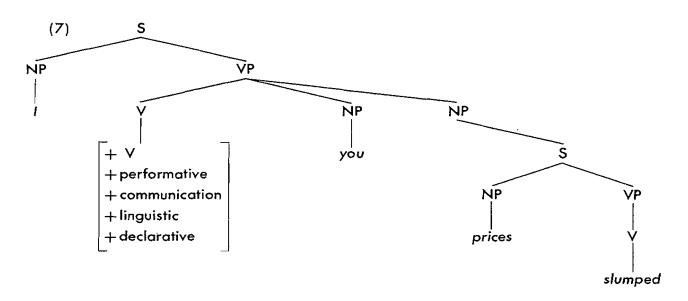
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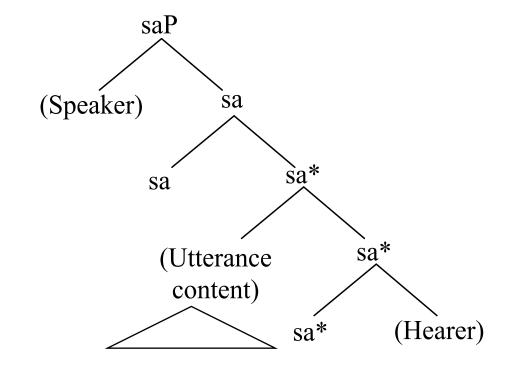
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(Neo)-Performative Hypothesis

Declaratives/ Assertions contain Spkr & Adr





Declarative - Assertions

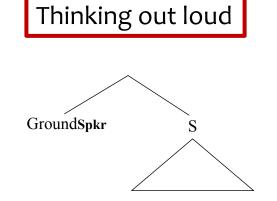
Declaratives/ Assertions are possible in selftalk

Self-talk

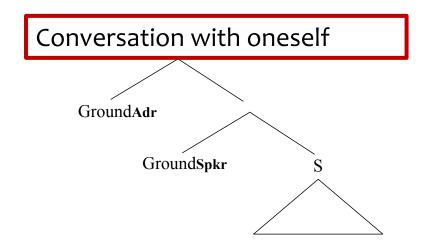
- (1) a. I really live in Barcelona now.
 - b. You really live in Barcelona now.
- (2) a. I can do it.
 - b. You can do it.
- (3) a. I did it.
 - b. You did it.

Declarative - Assertions

The clause-type itself does not require Addressee



I can have a declarative thought



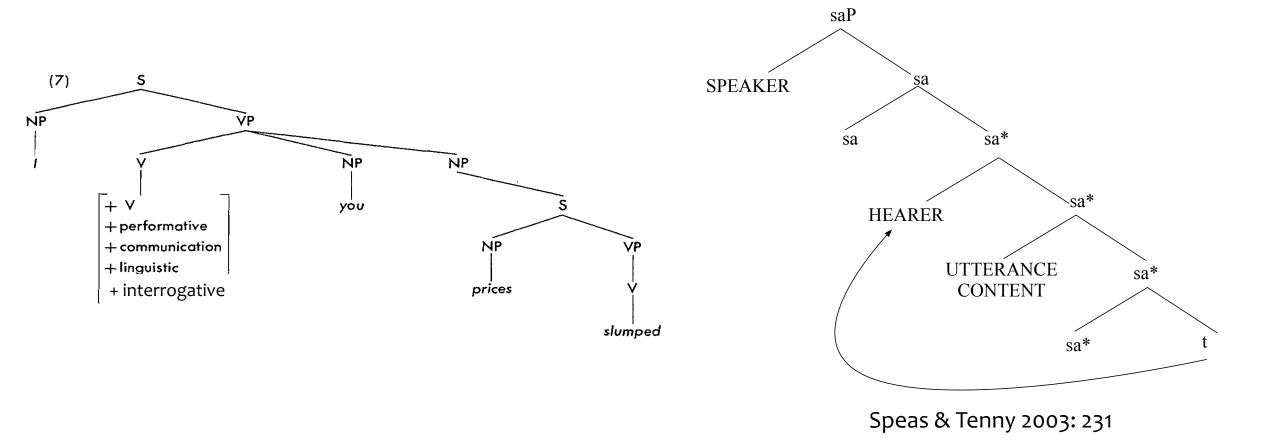
Why use declaratives/assertions in self-talk?

- Classic assumptions about assertions:
 - S knows
 - A doesn't know
 - S wants A to know
 - If S=A why bother?
- if communication is information exchange, all self-talk is redundant.
- if communication is about expressing commitments, self-talk is a form to make commitments to yourself

(Geurts 2018)

(Neo)-performative hypothesis

Interrogatives/ Questions contain Spkr & Adr



Interrogatives - Questions

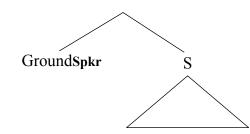
- (1) a. Do you want to do this?
 - b. Do I want to do this?
- (2) a. Will you be able to do this?
 - b. Will I be able to do this?
- (3) a. What can you do now?
 - b. What can I do now?

Interrogatives/ Questions are possible in selftalk

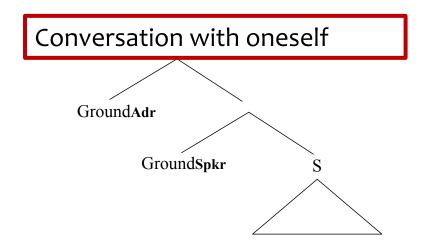
Interrogatives - questions

The clause-type itself does not require Addressee





I can have an interrogative thought



Why use interrogatives/questions in selftalk?

- Classic assumptions about questions:
 - S doesn't know
 - S assumes that A knows
 - S wants A to let them know
 - If S=A why bother?
- if communication is information exchange, all self-talk is redundant.
- if questions are about demanding commitment, then self-talk is a form to require yourself to commit (Geurts 2018)

ISH vs. (Neo)PH

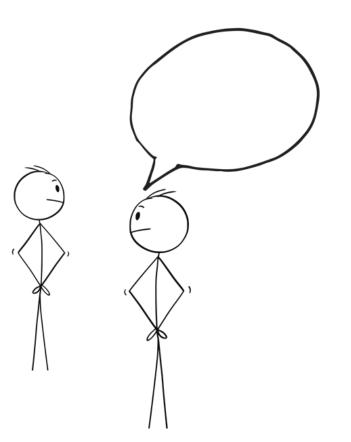
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I can't tell you how you feel

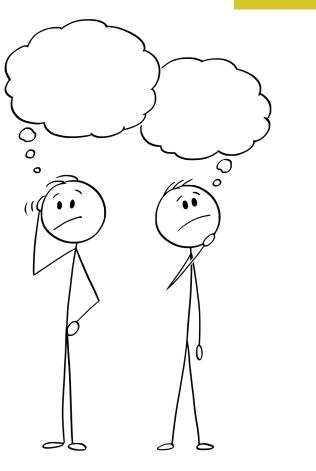
- 1. I'm so fed up with myself.
- 2. I'm so fed up with you.
- **3. ?***You're so fed up with yourself
- **4. ?***You're so fed up with me.



I can't tell you how you feel

I can't look inside your mind

- 1. I can't believe my luck
- 2. I can't believe your luck
- 3. ?*You can't believe your luck
- 4. **?***You can't believe my luck.

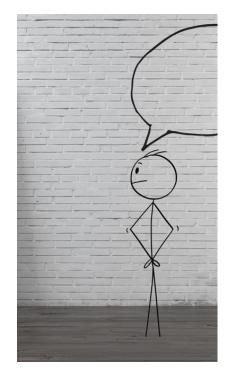


The same is true in self-talk

But I can look inside my own mind

- 1. I'm so fed up with myself.
- 2. I'm so fed up with you.
- **3. ?***You're so fed up with yourself
- **4. ?***You're so fed up with me.

Holmberg 2010



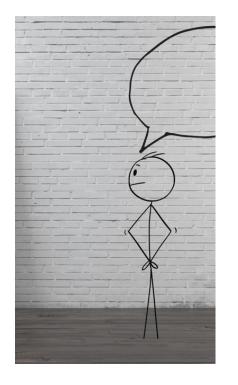


A constraint on subjective predicates

The same is true in self-talk

- 1. I can't believe my luck
- 2. I can't believe your luck
- **3. ?***You can't believe your luck
- 4. **?***You can't believe my luck.

So why are these still odd?





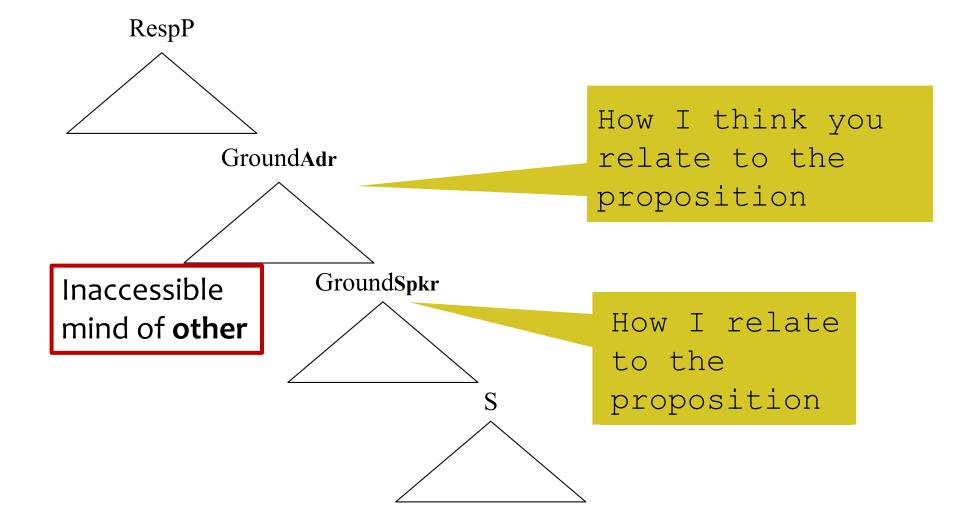
Apparently, you can't refer to the self as an experiencer of feelings or holder of intentions or plans, either. Generalising, you can't refer to the self in assertions about the self's state of mind, including thoughts, feelings, and intentions; only I can.

Holmberg 2010: 60

"you can't refer to the self as holder of thoughts or beliefs, in self-talk...[because it is] a mindless self" (Holmberg 2010: 60)

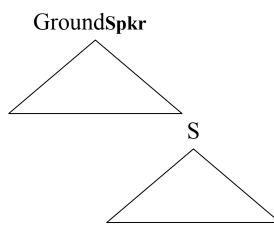


The interactional spine hypothesis (ISH)



The constraint on subjective predicates

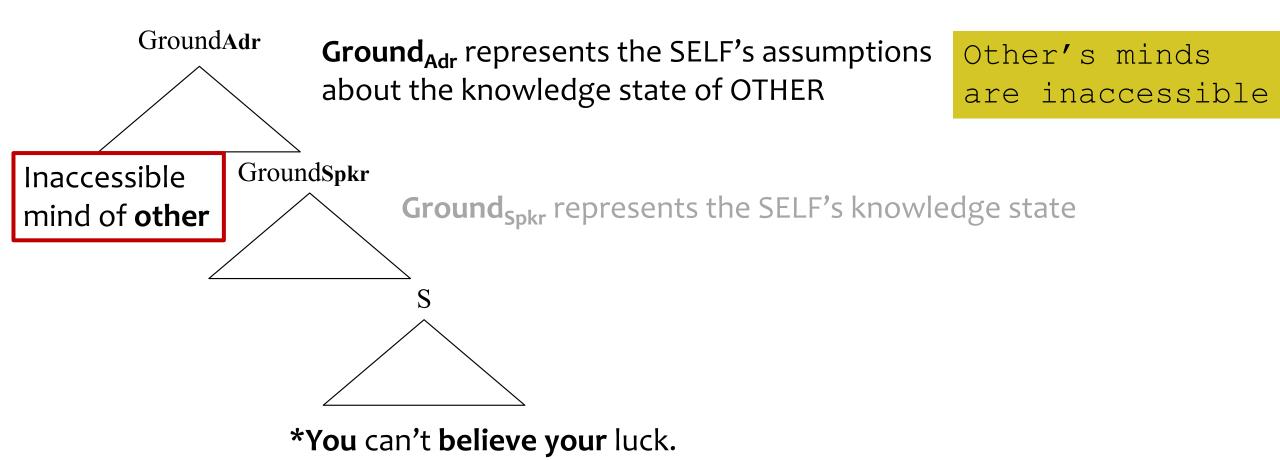
My mind is accessible to myself



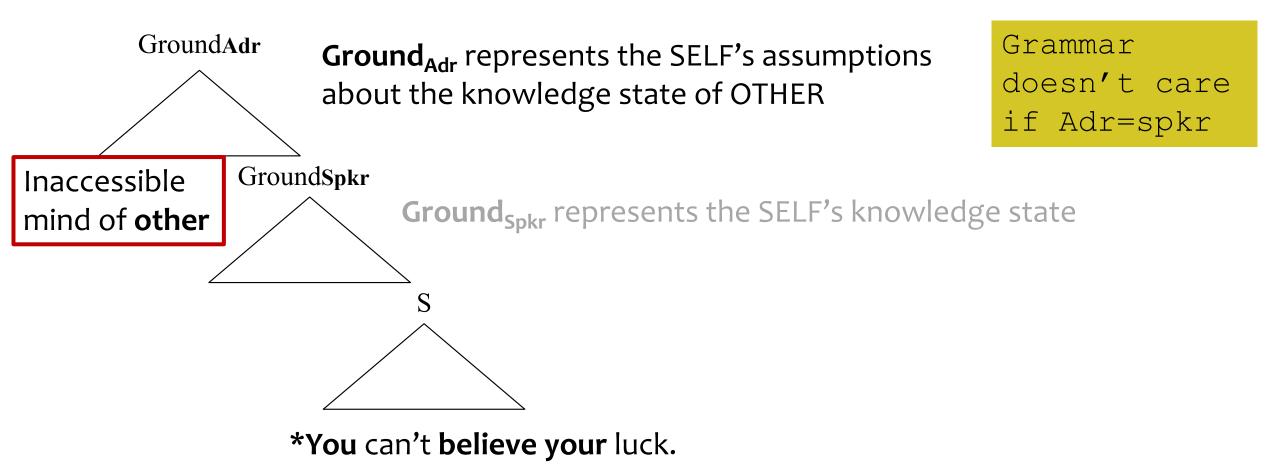
Ground_{Spkr} represents the SELF's knowledge state

I can't believe my luck.

The constraint on subjective predicates



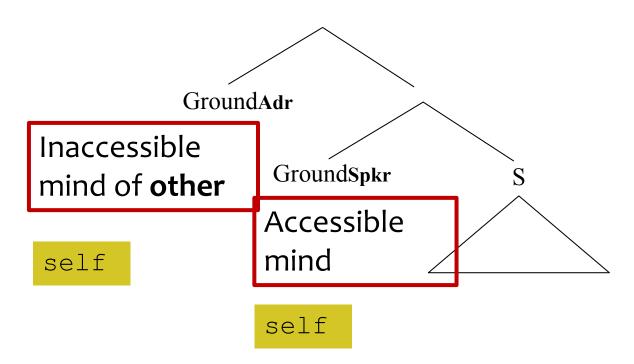
The constraint on subjective predicates



Speaker/addressee roles as grammatical constructs

- 1. I'm so fed up with you
- 2. You're so fed up with me/yourself.

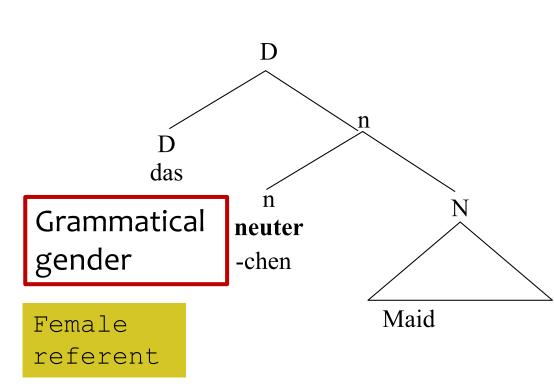
Real world knowledge cannot override
 grammatical constraints



Grammatical gender

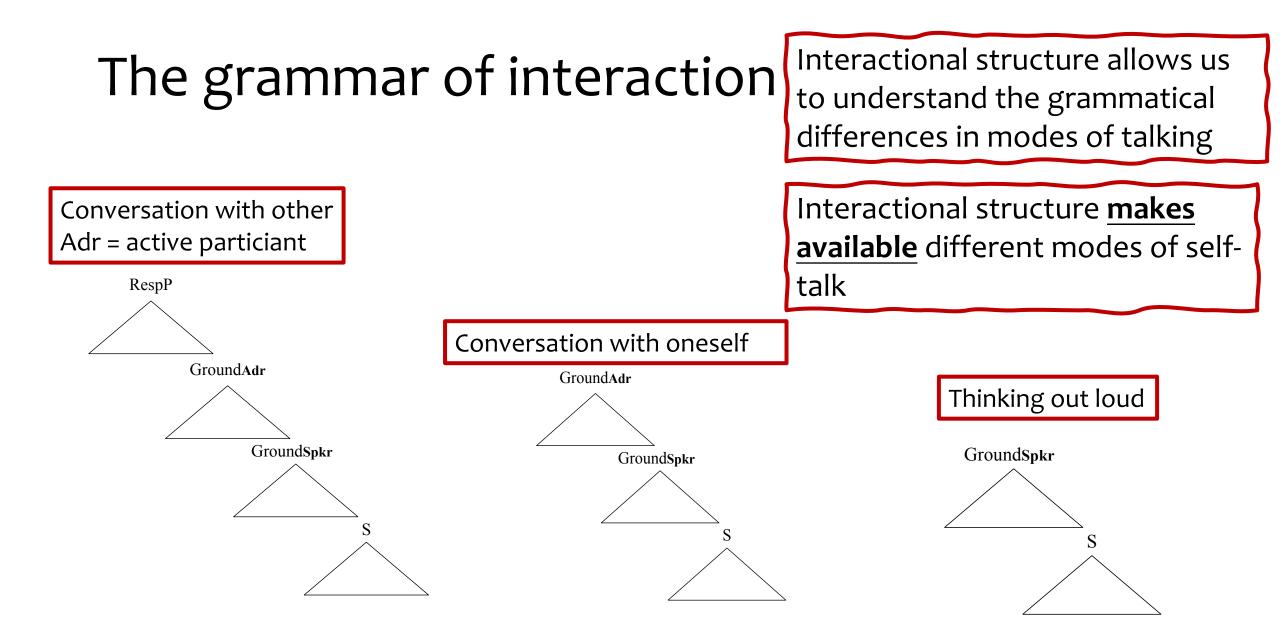
das Mäd.chen the.neut girl.dim 'the girl' *die Mäd.chen the.fem girl.dim

• Real world knowledge cannot override grammatical constraints

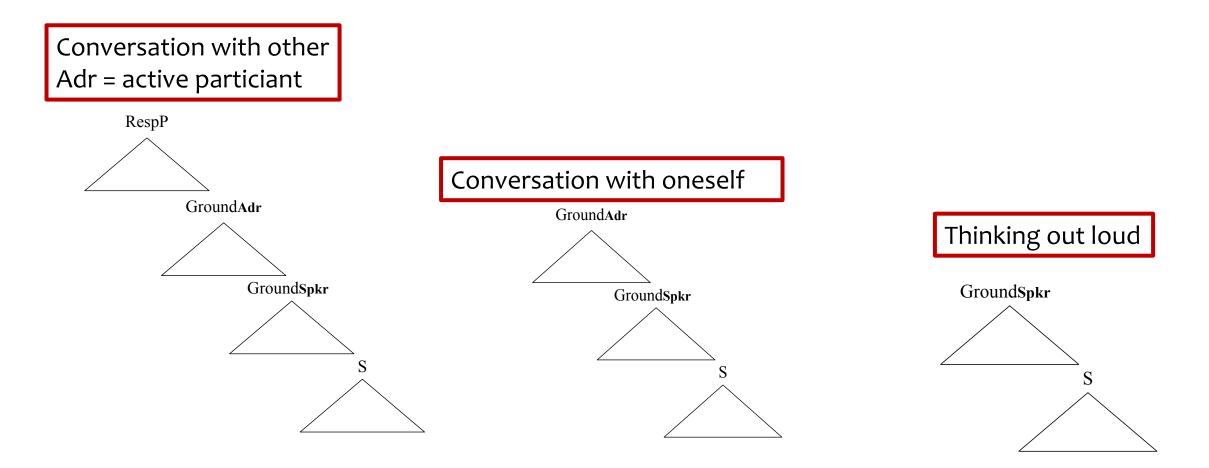


ISH vs. (Neo)PH

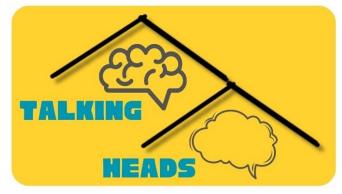
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The grammar of interaction



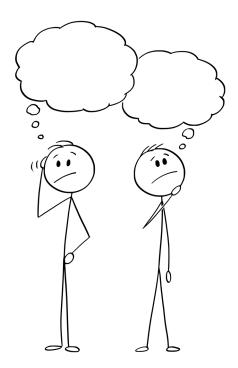
Today



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- Self-talk as a window into the language faculty
 - If linguistic interaction is built into grammar, language must be an instrument for thought and communication
 - Properties of self-talk suggest that linguistic interaction is not only a matter of externalization

A classic dichotomy

Function of Language



"the modern doctrine that communication is somehow the "function" of language is mistaken... Language is fundamentally a system of thought." Chomsky (2017: 298)

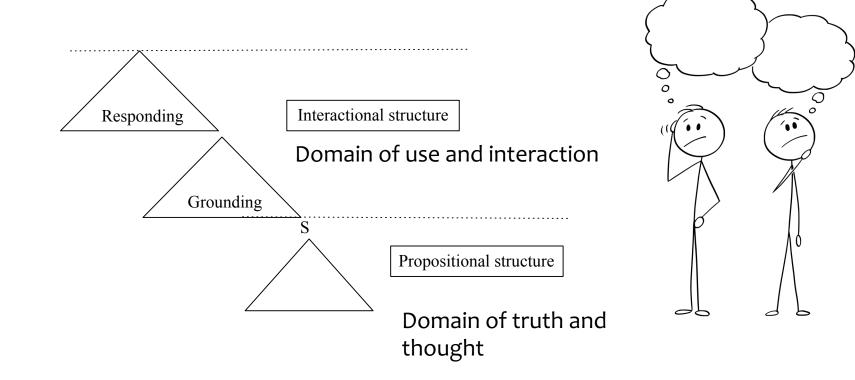
A classic dichotomy

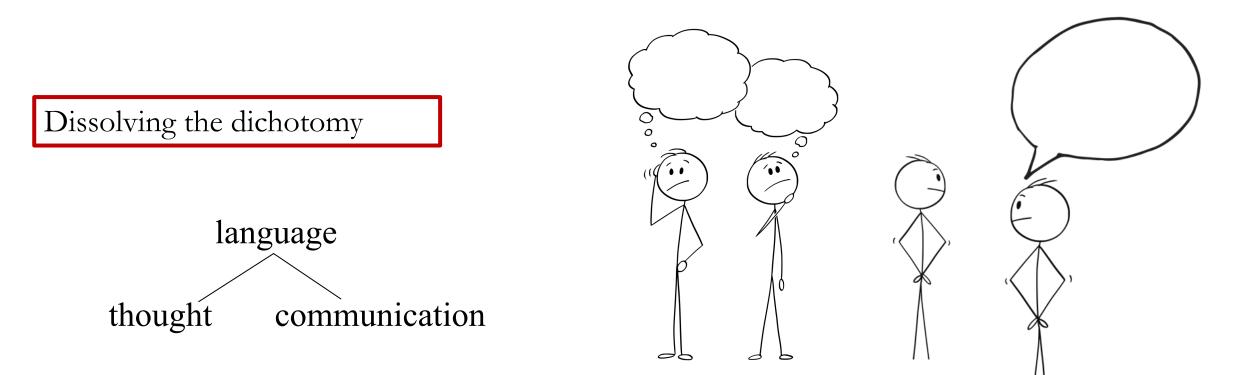
Function of Language

"language arose primarily in the interests of enhancing communication, and only secondarily in the interests of enhancing thought."

Jackendoff (2002: 123)

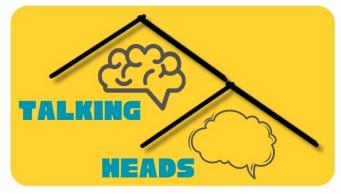
Since interaction is built into the system, language must be for **thought and communication**





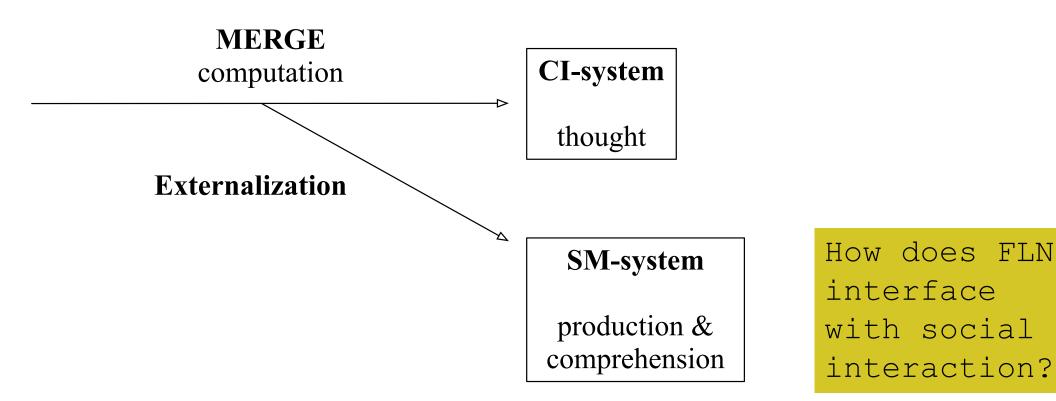
"Language is a system that equally incorporates thought and communication and arguably contributes to the fact that both take on their human-specific characteristics" Wiltschko, to appear

Today



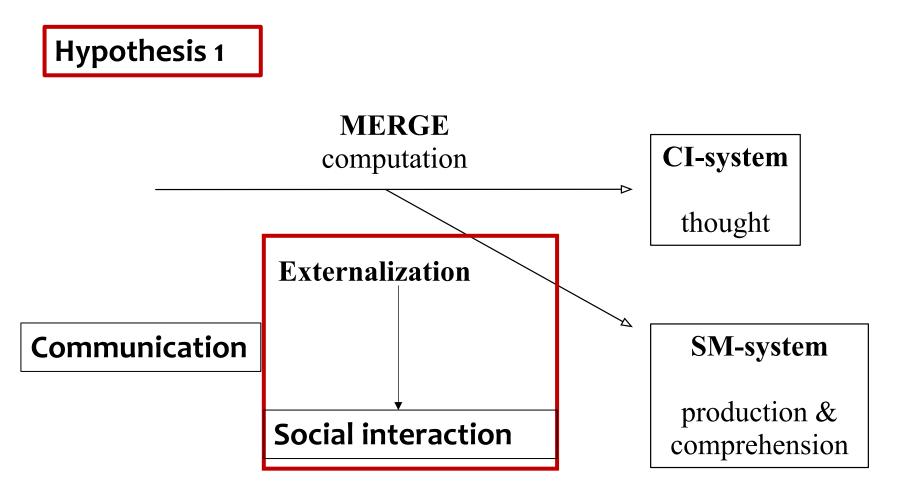
- A little self-reflection:
 - How do we think?
 - How do we say what we think? And how do we talk to others about it?
- Self-talk as a window into the syntax at the very top
 - Properties of (different types of) self-talk favor the Interactional Spine Hypothesis over "Speech-act structure"
- Self-talk as a window into the language faculty
 - If linguistic interaction is built into grammar, language must be an instrument for thought and communication
 - Properties of self-talk suggest that linguistic interaction is not only a matter of externalization

What does this tell us about the language faculty?



Hauser, Chomksy, Fitch 2002

What does this tell us about the language faculty?



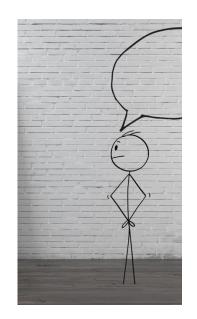
Communication *≠* externalization

Problem # 1: interactional language displays properties of grammar (MERGE)

 \rightarrow i-language has to be computed before externalization

Problem # 2: I-centered self-talk

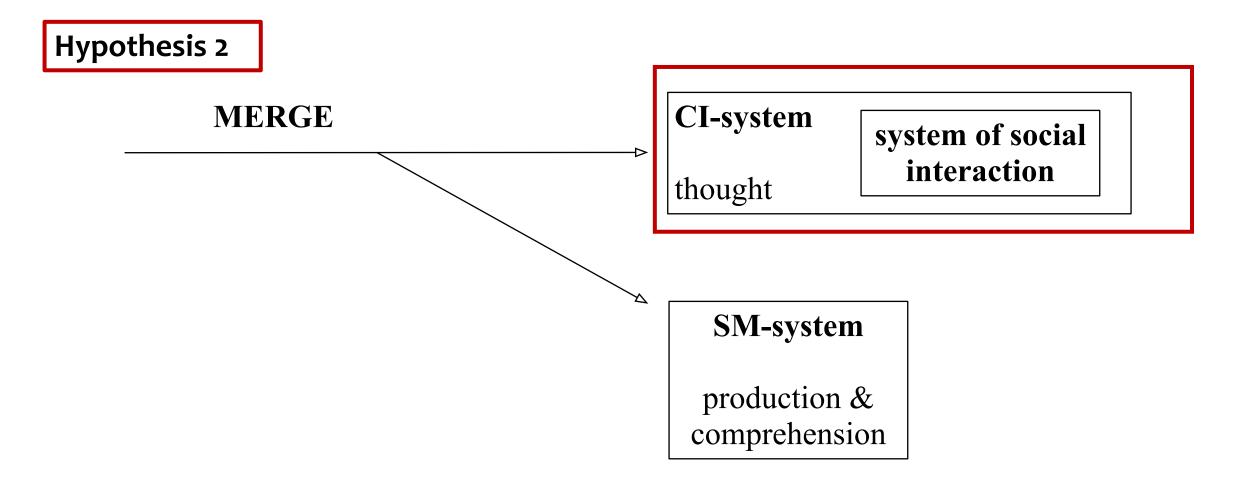
→ Thought can be externalized without communication



... is thinking out loud... there is no addressee

Wiltschko, to appear

Beyond the CI-interface



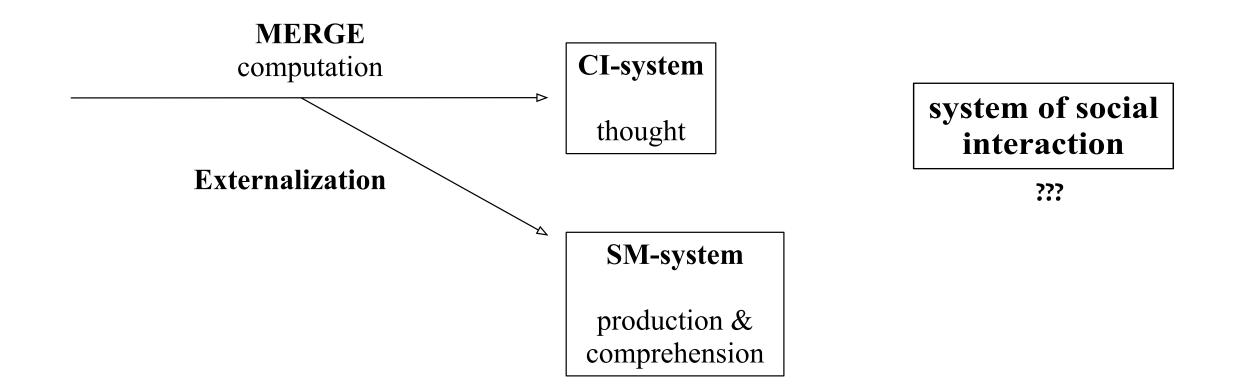
Social interaction ≠ thought

Interactional language is not part of "thought" (CI-system)

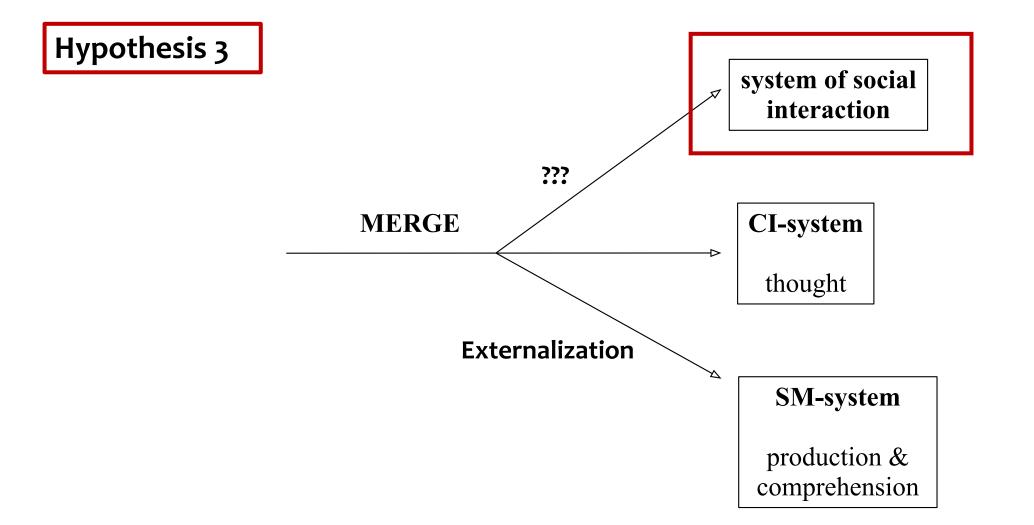
a. Charlie: It's hot! Me: Charlie thinks it's hot. b. Charlie: It's hot, eh?

Me: *Charlie thinks it's hot, eh.

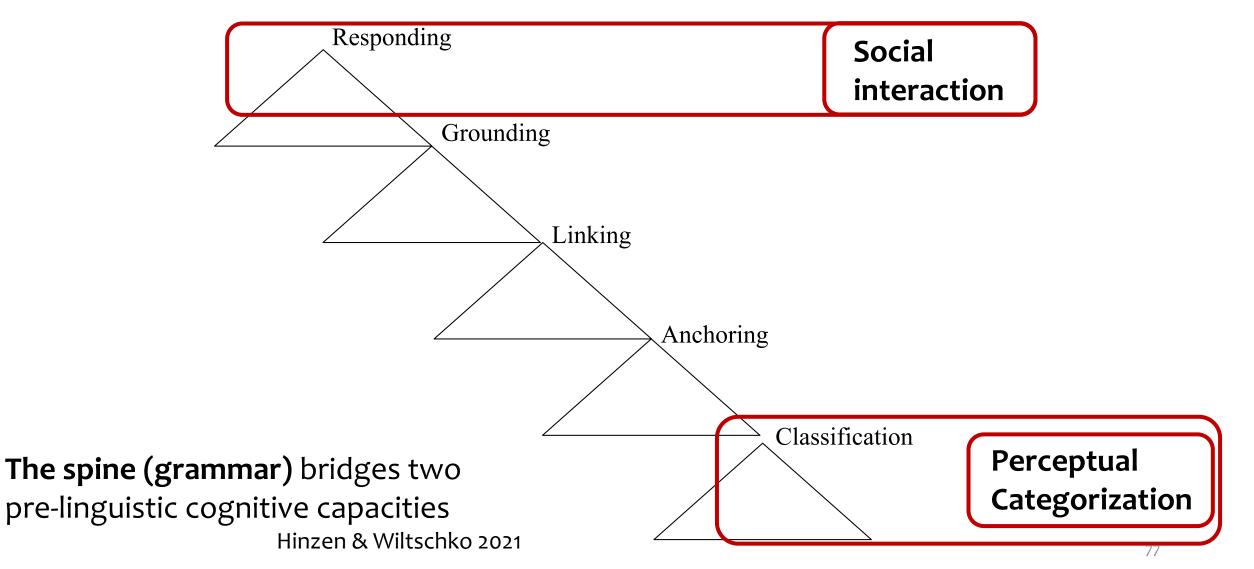
What is linguistic competence?



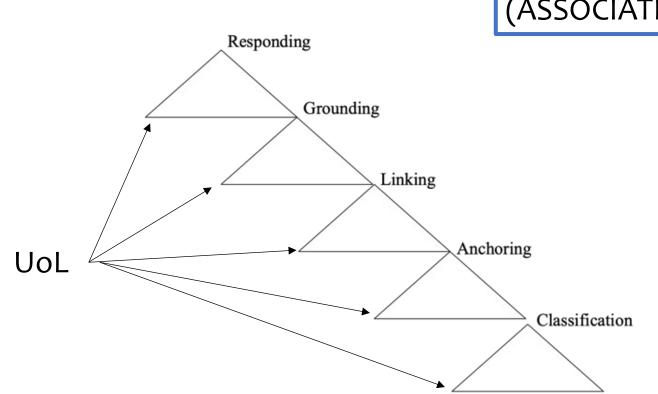
Beyond the CI-interface



Beyond the CI-interface

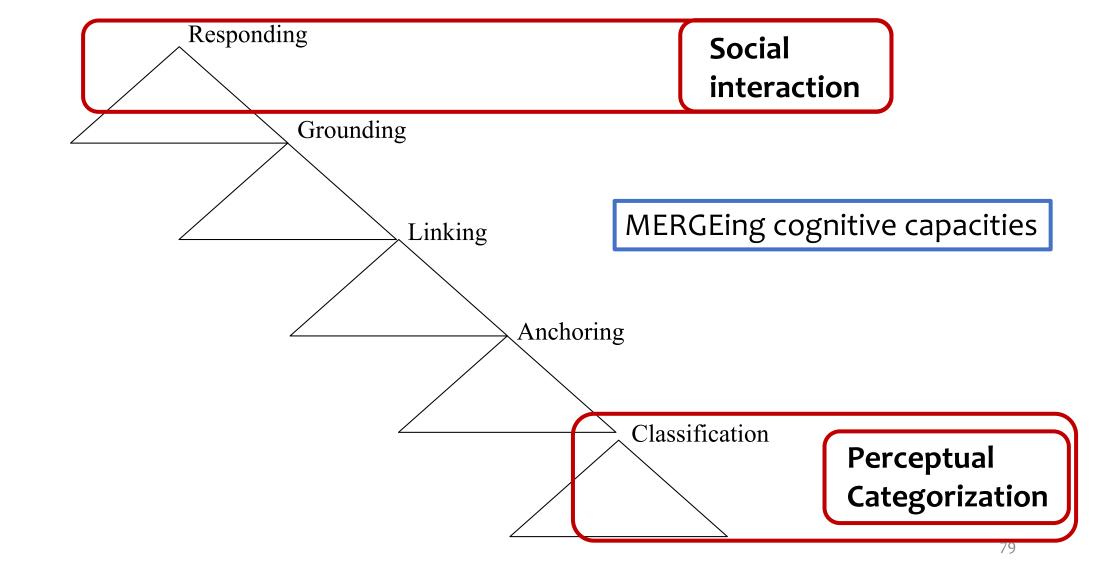


Beyond merging features

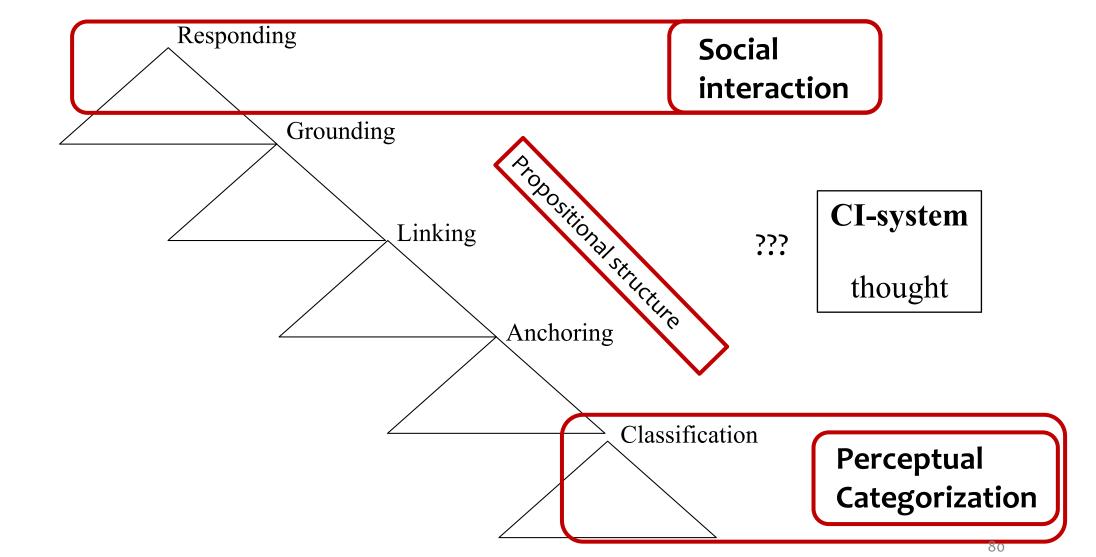


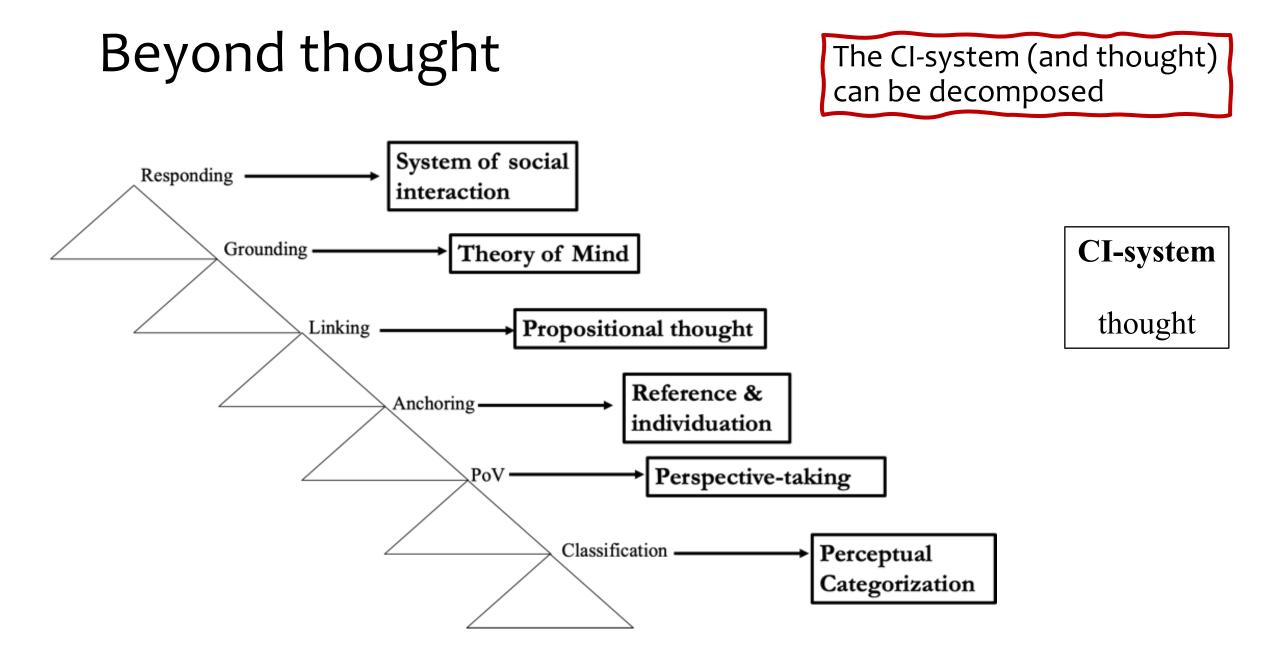
MERGE is mediated via the spine (ASSOCIATE)

Beyond merging features



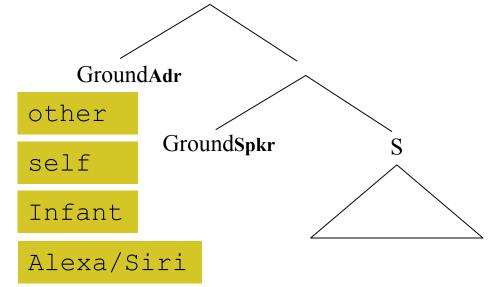
Beyond thought





Appendix: methodology

The significance of non-canonical conversation



Who we talk to affects the way we talk

Non-canonical conversation allow us to explore the (grammatical) constraints on addressees and linguistic interaction, more generally

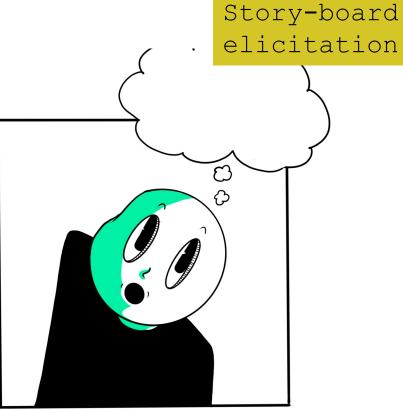
Current study



What is he thinking? Write your own caption below!

Goddard, Ritter, Wiltschko , in progress





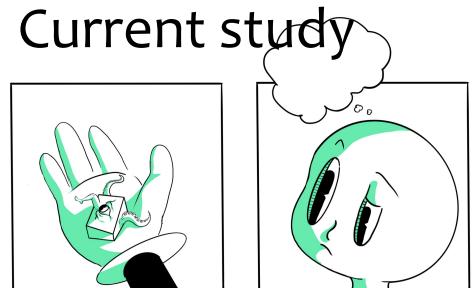
Complete the comic by picking the best dialogue option to fill in the thought bubble! (You may pick more than one)

Look at that pig!

I can't believe it!

What kind of horse is that?

None of the above (Write your own response below!)



Complete the comic by picking the best dialogue option to fill in the thought bubble! (You may pick more than one)

You don't know what this is!

It must be raining outside.

What is this?

None of the above (write your own response below!)



Complete the comic by picking the best dialogue option to fill in the thought bubble! (You may pick more than one)

That dog must like ice cream!

I have three ears!

That dog has three ears!

None of the above (write your own response below!)

Goddard, Ritter, Wiltschko, in progress

Story-board

elicitation

How study self-talk?

Movies:

- Characters talking to themselves
 - Seinfeld episodes (Goddard, in progress)
- Characters listening to other's thoughts/inner speech
 - Sookie Stackhouse (True Blood)
 - Mel Gibson's character in "What women want"
- Novels
- Plays
 - Soliloquiy in Shakespeare



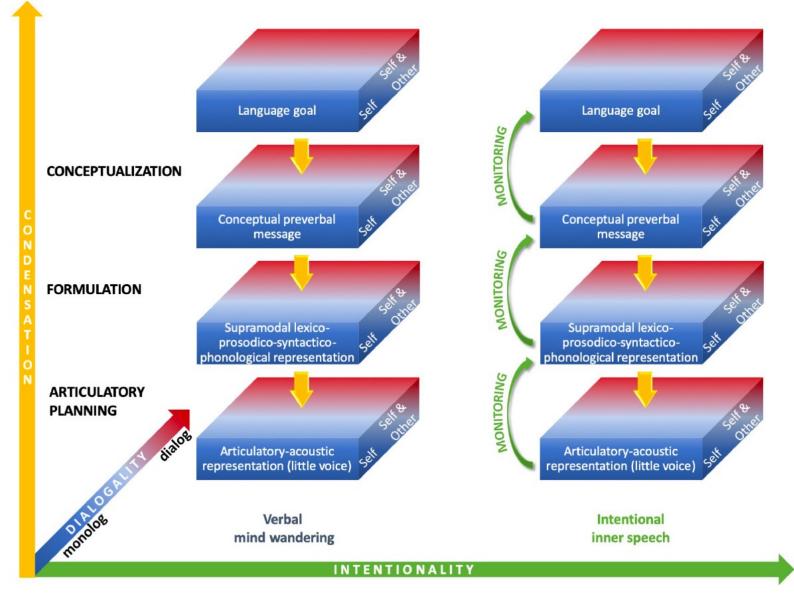
How study self-talk?

In collaboration with non-linguists who study **inner speech**

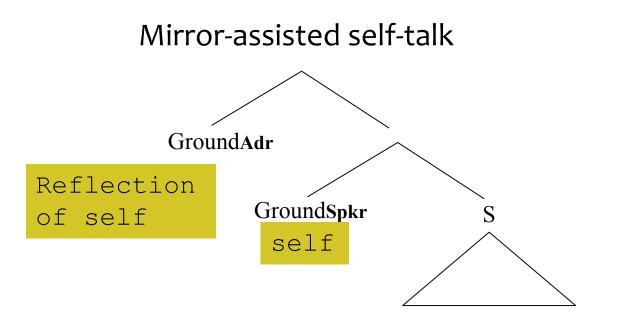
- What is its role in thought?
- How does it relate to inner speech?
- What does its acquisition path look like?
- Is it affected in neuro-diverse populations?

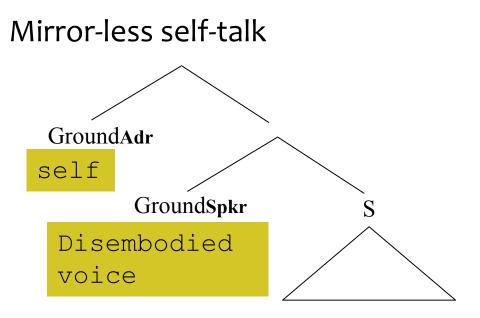
Appendix: a typology of self-talk

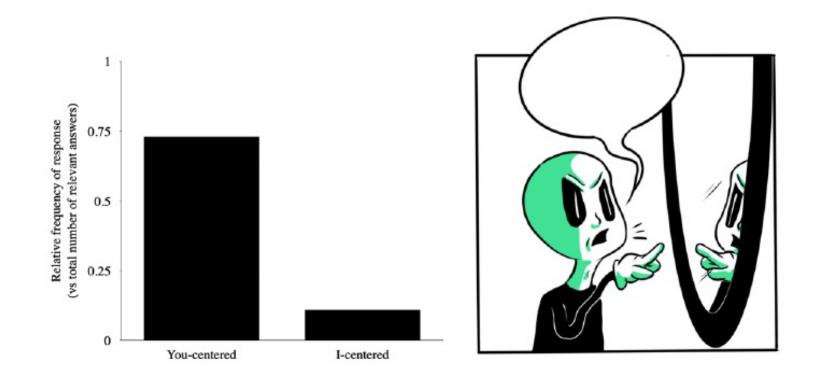
Varieties of inner speech



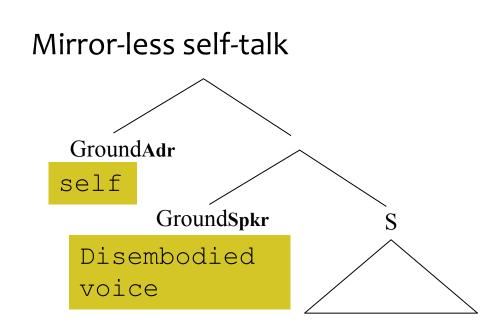
Grandchamp, et al. "The ConDialInt model: Condensation, dialogality, and intentionality dimensions of inner speech within a hierarchical predictive control framework."Front. Psychol., 18 September 2019 | <u>https://doi.org/10.3389/fpsyg.2019.02019</u>



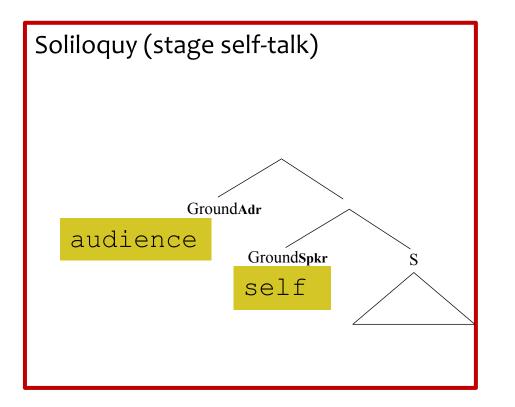




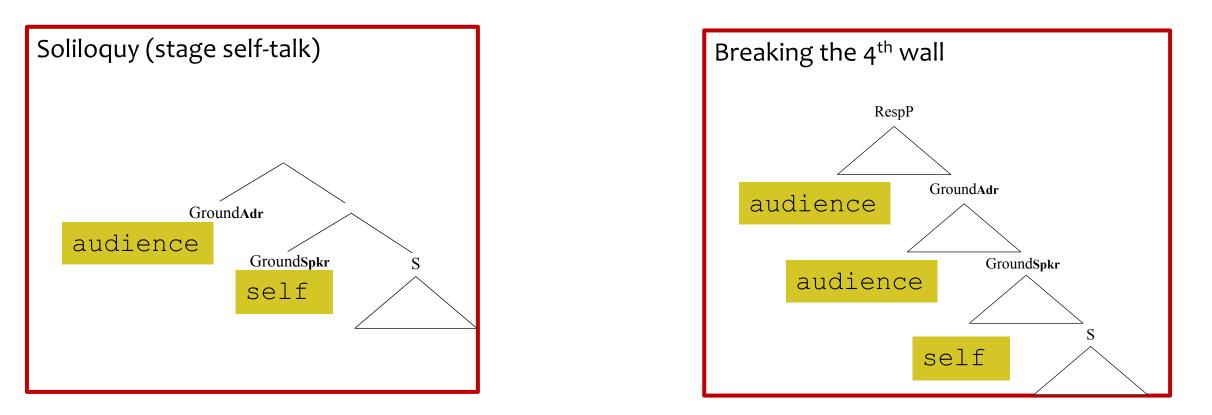
We conclude that the mirror provides an environment that facilitates both social deixis (e.g., sociolinguistically-loaded pronouns) and spatial deixis (e.g., pointing)



- the self takes on the perspective of the addressee and treats the speaker as "tak[ing] on the voices of others" (Gacea, 2020: 34).
- voice can either be an inner critic or an inner coach



A soliloquy is a monologue addressed to oneself, thoughts spoken out loud without addressing another. Soliloquies are used as a device in drama to let a character make their thoughts known to the audience, address it directly or take it into their confidence.



(esp of a character in a television programme, film, or play) to refer to, acknowledge, or address the audience, usually for comedic effect or as an avante-garde technique

Collins English dictionary

https://www.collinsdictionary.com/dictionary/english/break-the-fourthwall#:~:text=break%20the%20fourth%20wall%20in,as%20an%20avante%2Dgarde%20technique