

#### Two properties of modals

Property 1: Modals are often ambiguous between epi non-epistemic readings

Property 2: Modal readings have different structural

- Epistemic modals are above T in syntax
- Non-epistemic modals are below T

Two properties pull in different directions:

- Systematic ambiguity motivates a single lexical er
- Syntactic inequality motivates separate lexical en

#### How to bring two properties togeth

Wrong questions: they presuppose different lexical

- Why are epistemics above T?
- Why are non-epistemics below T?

Right questions: but they require a theory of structur influence on interpretation

- Why are modals above T epistemic? - Why are modals below T non-epistemic?

### 'Global' approaches

Influence of syntax is regular and arises via compos

- Distribution of modal readings arises due to unde lexical semantics and the process of semantic co with the structural context
- Hacquard 2006: modals are event-relative, high m relative to the speech act event, low modals are the aspectual event
- Ramchand 2018: choice semantics for modals, eit between possible assertions or possible situation

These approaches are related to ideas of universal sy respondence, where 'externalization' is the locus variation (Chomsky's later work; the Meaning-First Approach)

# Place of modal ambiguity in a modular grammar

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	Strong prediction of 'g
pistemic and	Two claims of 'global' approaches
l properties	<ul> <li>Modals above T are epistemic</li> <li>This property follows from semantics lexical semantics for modals, and com</li> </ul>
	These properties entail that the syntacti to a semantic constraint on possible sco
entry ntries	⇒ Examples of tense outscoping epistem 'global' approaches
	Dutch modal verbs and
her	Van Dooren (2020) argues that Dutch ep
l entries	preted in the scope of tense, unlike Eng Rullmann, Matthewson 2018)
Iral context's	<ul> <li>(1) Gisteren moest hij nog in Portuge yesterday must.PST he still in Portuge verjaardag, maar het nieuwe bewijsn birthday but the new evidene dat een foute conclusie was. that a wrong conclusion was</li> <li>'Yesterday it was still highly likely that h his birthday, but the new evidence indicat wrong.'</li> </ul>
sition	Russian modal adjectives
derspecified omposition	Similar behavior is found in Russian mo English as well)
modals are relative to	(2) a. <i>Vozmozhno cto na den' rozhdenijo</i> possible that on day birth 'It is possible that John was in Portug
ther choice	b. Bylo vozmozhno cto na den'ro was possible that on day bi Portugalii, no nash agent govot Portugal but our agent says
syn-sem cor- of linguistic	den' v Parizhe day in Paris 'It was possible that John had been

'It was possible that John had been in Portugal on his birthday but our agent says that he saw John in Paris that day.

# lobal'ists

#### of functional spine, mposition

tic generalization is due cope relations

mics are problematic for

### nd tensde

pistemics can be internglish epistemic (contra

gal geweest zijn op zijn be on his gal been smateriaal toont aan dat shows on that nce

he had been in Portugal on ates that that conclusion was

#### es and tense

#### nodal adjectives (maybe

ija Dzhon byl v Portugalii John was in Portugal igal on his birthday.

ozhdenija Dzhon byl v oirth John was in otit cto videl ego v tot that saw him on that

### Alternative to 'global' approaches

The more restrictive generalization does not appear to hold epistemic can be in scope of tense

There are workarounds of course (e.g., posit more speech act operators in the structure) but is there an alternative?

'Local' approach: the influence of syntactic context on the interpretation of syntactic objects is arbitrary (cf. substance-free phonology) — maybe one should always expect that in lexical mapping between modules (Scheer 2012, 2022)

## Allosemy and imperfect syn-sem mapping

DM literature has developed a mechanism for syntacticallyconditioned selection of meaning – allosemy (Wood 2015; Myler 2016; Schwarzschild 2022; Wood 2023)

Late insertion: syntactic terminals do not come with prepackaged meanings, meanings are read off syntactic terminals and their surroundings (see Preminger 2022 for an argument based on non-constituent idioms like the shit out of)

Once such mechanism is available, we should aim to reach the boundaries of what's possible with allosemy (however: there may be learnability issues as argued by Ramchand 2015)

## Modals: what you see is what you get

Allosemy appears to be a perfect match for modal ambiguity:

- surrounding syntactic context
- adjectives, TPs in epistemic verbs)

Allosemy accounts for:

- deontic readings of modals cross-linguistically)
- -*mala*, Knyazev 2021)
- CPs, Veselinović 2019)

- modal reading is partly brought by the modal, partly by the

- structure-reading match isn't perfect (CPs in epistemic

- interaction with argument structure (dynamic and directed - interaction with case assignment (e.g., Poshart Chuvash

- variation in structural properties (BCS epistemics embed