

# MODALITY IN SYNTAX, SEMANTICS, AND PRAGMATICS

Volume 165

What do we mean when we say things like *If only we knew what he was up to!*? Clearly, this is more than just a message, or a question to our addressee. We are expressing simultaneously that we don't know and also that we wish to know.

Several modes of encoding contribute to such modalities of expression: word order, subordinating conjunctions, sentences that are subordinated but nevertheless occur autonomously, and attitudinal discourse adverbs which, far beyond lexical adverbials of modality, allow the speaker and the listener to presuppose full agreement, partial agreement under presupposed conditions, or negotiation of common ground. This state-of-the-art survey proposes a new model of modality, drawing on data from a variety of Germanic and Slavic languages to find out what is cross-linguistically universal about modality, and to argue that it is a constitutive part of human cognition.

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To the memory of my wife, Gerda Abraham, 1941-2020



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# Preface

What do we mean when we utter something like If only we could know what he is up to!? Clearly, we do not only send a message or ask an addressee a question. What is more relevant, we express our failure to know and, at the same time, the wish to get to know the propositional content What is he up to? Perhaps even more important for the hearer at site is that much depends on the speaker's knowledge of the propositional content of the direct question, i.e. the communicative common ground between speaker and hearer and what the implied strategy could be that both speaker and hearer pursue in order to understand each other. The conditional conjunction if and the connected irrealis could in our example signal not propositional but attitudinal conditions, i.e. wishful contingency. Several modes of encoding contribute to such modalities of expression: word order (particularly in languages with verb-second (V2) and verb-final (Vfinal) word order, such as German and Dutch), subordinating conjunctions, sentences which are subordinated in the first place but nevertheless occur autonomously (i.e. as main, independent clauses), and attitudinal discourse adverbs ('modal particles'), which, far beyond lexical adverbials of modality, allow the producing and, at least partially, the receiving communicative partner to presuppose full agreement, partial agreement under presupposed conditions, or negotiation of the common ground.

Grammatical modality is the functional category, which is acquired later than all other functional categories. Thus, it is necessarily dependent upon, and colored by, the language-specific architecture of the early acquired functional categories such as aspect, tense, and mood, whose semantics serve as elementary building blocks for the construction of the exceptionally complex functional category of modality. Beside pointing out the cross-linguistic diversity of modality, the main aim will be to provide a unified picture of modality that explains the driving force (or illocutionary force) creating different cross-linguistic patterns of modality. The very search for the deeper sources of modality reveals that the linguistic architecture of modality largely depends

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## xxii Preface

on the development of the category of person. The category of person is defined as a shifter (in the Jakobsonian sense). Its reference shifts with the origo of the speaker. At this point, pragmatics comes into the picture. It is of central importance to understand how shifters serve as building blocks for functional categories. Functional categories involve double displacement and the splitting up of the speaker into multiple personalities or viewpoints. As a consequence, one central aim will be to give evidence of, and theoretical support for, the hypothesis that the development of the Theory of Mind (ToM) in acquisition (and, presumably, also of evolution) depends largely on the development of functional categories, especially that of modality (as has been proposed and supported by Papafragou 2002 and Papafragou et al. 2007) – and not vice versa, i.e. that the cognition of complex modality arises out of the developing ToM (this being the majority position in the field). What is of central importance from a pragmatic point of view is that modality constitutes the highest linguistic achievement in the creation of different viewpoints (or perspectives, as we also say). The entirety of modality in itself, of course, comprises a range of different means to express illocutionary force, among which modal verbs, modal particles (common to all of Germanic - except for English - and Slavic), and modal adverbials. In order to understand, what is common to them, what separates them, and what lies behind them, the syntax of modality will finally be investigated thoroughly. The different layers of modality or illocutionary force are defined by the structural web of syntax which specifies the function (semantics and pragmatics) of different linguistic techniques of modality. An essential outcome of the syntax part will be that lexical modality is not on a par with grammatical modality. Another investigative aim will be to expand the syntactic operator of illocutionary force into suboperators and to specify and define them in syntactic terms. This pathway also implies that modality is excluded from syntactic domains where illocutionary force is inactive, such as in (a major subset of) dependent clauses, insofar as they do not allow for Force autonomy (partly truth assessment, partly felicity conditions). The module division, as sketched above, does not reflect the sequence of topics treated in the main chapters of the present book.

I have taken great pains to spell out the common structure of the four grammatical modules, aspect, tense, mood, and modality, and the perspective under which the common structure is achieved. The polyvalent semantics of aspect form the building block of modal functions. Aspect, tense, and mood cannot be listed as separate modules. They are linked in terms of stacked inclusion (part-whole, or mereological) relations. They are different categories of the same functional domain, the so-called ATM(M)-complex. The most



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basic category is aspect, structured binarily between the features of inner and outer perspective [±perfective], tense between past and future, mood between [±realis], and modality between [±speaker's certainty]. The feature sets linking the four modules are the deictic categories of speaker distance. Aspect encodes spatial distance, tense encodes temporal distance, mood allows the speaker to view distant (possible) worlds as being encoded by irrealis and optative moods; and, finally, epistemic and evidential modality signal that the speaker distances him- or herself from the positive truth value of the proposition, which means that the speaker as a person does not take responsibility for the certainty of the information given. Here the grammatical category of person (±distant from the origo) comes into the picture. All in all, we can say that aspect, tense, mood, and modality are linked by processes of reinterpretation of the feature [±distance]. The path of reinterpretation correlates with the path of grammaticalization: aspect > tense > mood > modality, which is well documented in the literature.

Different degrees of distance lie between the four modules sketched – the remotest, and least overtly visible, distance lying between aspect and epistemic/evidential modality, while the closest separates aspect and tense (past vs. present ongoing). The external, distance motivated, relation between these sets is that modality includes the feature characteristics of the other three modules in a hierarchical setting: the features of modality contain those of mood, mood contains those of tense, tense those of aspect, and aspect is the most basic one. This new view on the hierarchy of categorial relations explains insights into the solid empirical evidence of links between the modalities of root and epistemics, on the one hand, and aspectual perfectivity and imperfectivity, on the other. This comes most clearly to the fore in languages that have to express modalities in forms of aspect. Russian is the model for this link in the book at hand. All of this motivates the general claim made in this book that the semantics, pragmatics, and syntax of modality converge, thus allowing for a universally valid explanation of modality as a constitutive part of human cognition and also human language.

I know from my own experience that books like this one will be read in parts. A look into the table of contents will help detect certain subtopics that interest the reader more than others. The individual chapters of the present book were written with that in mind. They can be read individually without getting lost by the absence of the horizons drawn in previous chapters. I have also taken great care to insert cross-references to other pertinent chapters for additional illustration and for exegesis. Needless to say, what may sometimes appear to be the duplication of information is planned to help the reader.



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# Abbreviations and Special Symbols

## Abbreviations (Used in the Running Text and the Glosses)

ABIL ability

Acc accusative case

ACI accusativus cum infinitivo verbs (verba dicendi et sentiendi:

sehen, fühlen, hören, lassen, etc.)

Addr addressee

Adj.Poss possessive adjective

AG agent (theta role=semantic case)

AgrP agreement phrase
AH auxiliary hypothesis
AMH aspect-modality hypothesis

Aor aorist

AspP aspect phrase ASS assertion, assertive

ATMM/E aspect (A), tense (T), mood (M) and epistemic and evidential

modality (M/E)

Aux auxiliary

BG Burzio's Generalization

C context state
CA contrastive accent
CDC core dependent clause

CEM classical extensional mereology

CF contrastive focus
CG common ground

CI conventional implicature

CL clitic

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# xxvi List of Abbreviations and Special Symbols

Comp complementizer (V2 in German or embedding

conjunction)

COMPL completive ConF contrastive focus

Cop copula CoV control verb

CP complementizer phrase (entire autonomous clause)

CV verbal complement

Dat dative case

DD double displacement

DECL declarative

DEONT deontic (modal of obligation)

decausV decausative verb

def definite
DefF default focus
DirD direct discourse
DM(s) discourse marker(s)

DMV deontic (root) reading of modal verb

DO direct object
DP determiner phrase
E- epistemic (-reading)

eA external argument (subject)

ec empty category

ECM exceptional case marking verbs (= ACI)

EIQ embedded infinitival question

EMPH emphasis

EMV epistemic reading of modal verb ENHG Early New High German (1350–1550)

EpAdvP epistemic adverbial phrase
EPM emphatic polarity marker
Er erotetic (echo) question
EUH epistemic universal hypothesis
eV unaccusative (ergative) verb

evAdv evidential adverb EvidV evidential verb

EvidMV evidential (reading of) modal verb

EvP event passive Ex/Excl exclamative



List of Abbreviations and Special Symbols xxvii

EXPL expletive (dummy element filling a syntactic position without

structural status; cf. German Es wird versucht zu lachen 'it.

EXPL is attempted to smile'

F feminine gender

FCA Foreign Consciousness Alignment (≈Theory of Mind; Others'

Minds Alignment; reminiscent of Carnap's Fremdbewusstsein

'foreign/others' consciousness')

FID free-indirect discourse

FIN finality function (where predicative conjugational form of

a main clause goes)

ForceP Force phrase

FocP focus particle (German also *Gradpartikel*)

Fut Future (tense)
Gen Genitive

HAB habitual, habituality

iA internal argument (direct object)

IllocP illocutionary phrase
ILP individual-level predicate

IMP imperative

Imperf imperfective aspect

Ind indicative indef indefinite INF infinitive Infl inflection

Instr Instrumental case IO indirect object

IOR infinitival (object-)DP relative

IP inflection phrase

IPP Infinitivus pro participio (German *Ersatzinfinitiv* 'substitute

infinitive')

iPRED intransitive predicate

IS information structure/structural

(I)S (Inter)Subjectification

ITAP Intersubjective truth assessment presupposition

iV intransitive verb

KLP Kimian state level predicate

leMF left middle field (German clause topology)

LF Logical Form

L-marking lexical theta-marking



xxviii List of Abbreviations and Special Symbols

M masculine gender

MF middle field (German sentence topology) PreF (between TP

and vP) hosting midsentence topics and topic-about

MoepAdv modal epistemic adverb

MP modal particle

MPaP modal particle in appositives (non-restrictives) parameter

MPD MP-declarative MPP modal particle phrase

MV modal verb

N noun

n.a. not applicableNEC necessaryNEG negationNegP negation phrase

NEUT neuter gender

NFGEH non-finiteness gap for EMV hypothesis

Nom nominative

NPI negative polarity item

nrRC non-restrictive relative clause

O Obligatory, ethically necessary/obligatory

OCS Old Church Slavonic

OV object before verb (left-directional valence)

p, p proposition (content of a sentence)

P preposition

PAT patient (theta role = semantic case)

PDC peripheral dependent clause

PF phonetic form
PreF prefield (SpecCP)
Perf perfective aspect

PG prepositional gerund (German *zum*+infinitive)

PIC Processing Instruction Condition

Pl plural

PoF postfield (of the German clause structure, below VP hosting

topics in echoed function)

PolP polarity phrase Poss possible

PP prepositional phrase
PPA perfect participle active
PPP perfect participle passive



# List of Abbreviations and Special Symbols xxix

PRED predicate, predication
Pres Ptcp present participle

Pret preterit

Pro invisible ('small') pronominal position

PRO pronominal determiner phrase (DP) without phonological content

Pron pronoun
PstPtcp past participle
Ptcp participle
Q quantification
QE quotative evidential
QUD question under discussion

REQU request RES resultative

RHMF rhematic middle field (= right middle field in German sentence

topology)

RI root infinitive (*nicht stehen bleiben!* not-stop)

riMF right middle field (German topology)

S sentence

SA speech act operator SAH speech act hypothesis

Sg singular

SID standard indirect discourse SLP stage level predicate SMP strong MP status SMV semi-modal verb

SoG South German (Oberdeutsch)

Sp speaker SpDeix speaker deixis

StP state (adjectival) passive

SUBJ subject T tense

THMF thematic middle field (= left middle field in German sentence

topology)

ToM Theory of Mind (also Foreign Consciousness Alignment/FCA

and Others' Minds Alignment)

TP tense phrase tPRED transitive predicate tV transitive verb

V-final/VL verb in sentence-final position



xxx List of Abbreviations and Special Symbols

VF verum focus

VO verb before object (right-directional valence)
WMP weak MP status (MP in the narrow sense)

WP Wackernagel position (for subject and object clitics as in

Wird=a=n treffen? 'will=he=him meet' and Er wird=s machen

'he will=(i)t do')

#### **Special Symbols**

df=/df = for 'is defined as'

¬or ~ for 'propositional negation'

✓ for 'either-or'
& or ∧ for 'and'

 $\rightarrow$  or  $\Rightarrow$  for 'follows from', 'implies' for 'necessary/obligatory'

P/♦ for possibility

 $\forall u$  for 'valid for all instances of u'  $\exists v$  for 'there is at least one instance of v'  $\leq$  for 'smaller than or equal with'

 $\in$  for 'is part of'

# for exceptional (marked) contexts

 $\equiv$  semantically equivalent  $\Theta$  theta (thematic) role

## **Abbreviations of Language Names**

ENHG Early New High German ('Frühneuhochdeutsch')

GOT Gothic

MHG Middle High German (1150–1350)

MStE Modern Standard English MStG Modern Standard German

NL Netherlands/Dutch
OCS Old Church Slavonic
OE Old English (750–1150)
OHG Old High German (750–1150)

PO Polish RU Russian SC Scandinavian

SG South German ('Oberdeutsch')