Unit 4 (b) Modality

The area between "yes" and "no"

Slides for the session of Exploring English Grammar – the world of clauses held on 14.xii.2020 γρα

Modality

Goals

Robert Spence LangSciTech Saarland University



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- To understand the difference between the two ways in which [negative] POLARITY can be expressed – [direct] and [transferred].
- To understand the difference between the [median] VALUE of MODALITY ('will') and the [outer] VALUES (either [high] 'must' or [low] 'may'), by studying how they interact with [transferred] [negative] POLARITY.







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Modality

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 - [median] won't, wouldn't, shouldn't, (isn't/wasn't to)
 - [low] needn't, doesn't/didn't need to, doesn't/didn't have to





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- Modality
- Goals

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- need and dare are 'on the way out' of the system
- better may be 'on the way in' (we better let it in, bettern't we?)
- Even if verbs come in, or go out, or shift around within the system

 wenn du magst ('wenn du das tun willst'); wenn du vermagst,
 das zu tun ('wenn du das tun kannst') the ARCHITECTURE of the system remains the same, with [high], [median], [low] values.

The ambiguity on which MODALITY is based:



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Modality

• 1) She must be very careful.

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Modality

Soals

- 1) She must be very careful.
- 2) She must be very careless.

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Modality

Goals

- 1) She must be very careful.
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- Modality
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- //_{.1. \(\times\) she / must be / very */ CAREless//}

Overview of MODALITY

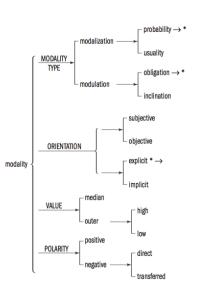


Fig. 4-25 System network of MODALITY

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Goals

MODALITY TYPE and VALUE (1) — MODALIZATION (the "indicative" type)





- This is MODALIZATION (the "indicative" type of MODALITY).
- It spans the gap between "it is" and "it isn't".
- It is typically expressed by either a modal verb, or a modal adverb, or both together:
- that'll be Professor Steiner at the door ('right now')
- that's probably Professor Steiner at the door
- that'll probably be Professor Steiner at the door
- There are two dimensions:
- PROBABILITY (certainly/probably/possibly) and USUALITY ("indefinite frequency") (always/usually/sometimes)



 That'll be Professor Steiner at the door ('that's probably him – not in the future, but right now')



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- That'll be Professor Steiner at the door ('that's probably him not in the future, but right now')
- Oh the students'll lie on the lawn all day in summer ('they usually do that – not next summer, but every summer')

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Goals

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- Probability 75% -> Expectation of 75 / 100 occurrences

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- Oh the students'll lie on the lawn all day in summer ('they usually do that – not next summer, but every summer')
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- cf. flipping a coin: probability of Heads is 50%, so if you flipped the coin 100 times you would expect to get Heads approx. 50 times and Tails approx. 50 times.

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- Two different ways of expressing less-than-certain knowledge: paradigmatically ('either-yes-or-no': how likely?) or syntagmatically ('both-yes-and-no': how often? (how usual?))

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- Adverbs expressing usuality are sometimes called 'adverbs of indefinite frequency'; like modal adverbs of probability they are part of the Mood element, just like the Subject and the Finite and the Polarity — because they're not just part of WHAT you're asserting, they're part of the ACT OF ASSERTING it!!





Modality

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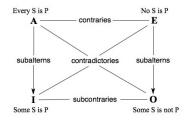


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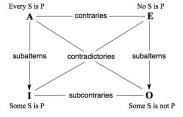


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- that certainly might be him -> it's certain that it's possible that it's him





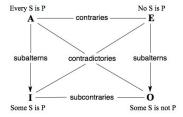
- Term "A" (= universal affirmative): All Australians are the descendants of convicts (cf. Australians are certainly... Australians are always...)
- Term "I" (= particular affirmative): Some Australians are... (cf. Australians are possibly... Australians are sometimes...)





Modality

Goal



• Two differences from Aristotle (because we're really doing rhetoric, not logic):



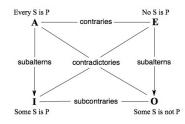
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Modality

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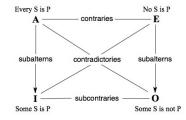


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- Two differences from Aristotle (because we're really doing rhetoric, not logic):
- 1) In real life, if we're absolutely certain, we just say "they are"; if we say "they must be", it means that we're slightly less than 100% certain
- 2) We add a term for 'less certain than certain, but more certain than possible': (they'll be descendants of convicts etc.)

MODALITY TYPE and VALUE (2) — MODULATION (the "imperative" type)

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Modality

Goals

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oals

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- (1) you must do your homework! (1) I must drive you home!



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Modality Goals

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Modality

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- There are two dimensions:
- OBLIGATION ('you!') ('are wanted to') (required / supposed [səˈpəʊst] / allowed) and
- INCLINATION (a.k.a. READINESS/ABILITY) ('I!') ('want to') (determined / keen / willing)



Modality

Goals



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Goals

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- Modalization: Probability ('epistemic modality')



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- Modality expresses intermediate degrees of knowledge and power.
- Modalization: Probability ('epistemic modality')
- Modulation: Obligation ('deontic modality')

Summary: Modality compared with Polarity and Mood



Goal

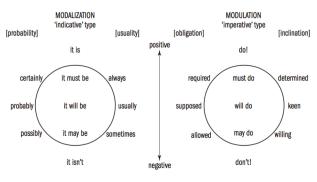
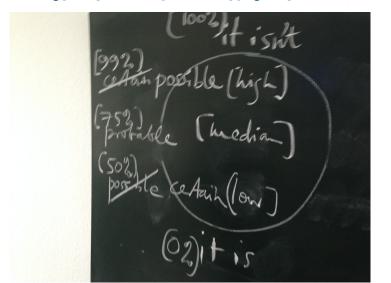


Fig. 10-6 Diagram showing relation of modality to polarity and mood

Combining [outer] VALUE and [transferred] [negative] POLARITY (1)



[outer] VALUE and [transferred] [negative] POLARITY (2)

[outer] VALUE and [transferred] [negative] POLARITY (3)

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Note that probability, in itself, can only ever be positive, never negative (i.e. it is always somewhere between p 0 (0%) and p 1 (100%)). However, you can 'metaphorically' 'transfer' the $\underline{\text{negative marker}}$ – from the process itself to the Modality on the process. In so doing, you cause something interesting to happen:

```
[outer:high]
                                         [negative:transferred]
[negative:direct]
it's certain that it isn't him - it isn't possible that it's him
[median]
[negative:direct]
                                         [negative:transferred]
it's probable that it isn't him - it isn't probable that it's him
[outer:low]
[negative:direct]
                                         [negative:transferred]
it's possible that it isn't him - it isn't certain that it's him
```

Similar things happen with all four types of modality. (Try it!)



The explicit forms (which are 'grammatical metaphors') are only possible with PROBABILITY and OBLIGATION, not (yet) with USUALITY OF INCLINATION.

Modality

For highschool literary appreciation essays choose explicitly subjective assessments of probability.



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Modality

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- 1) I know that he did it (subjective: explicit) MOST SUBJECTIVE
- 2) he must have done it (subjective: implicit)
- 3) he certainly did it (objective: implicit)

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- 3) he certainly did it (objective: implicit)
- 4) it's certain that he did it (objective: explicit) MOST OBJECTIVE

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- 4) it's certain that he did it (objective: explicit) MOST OBJECTIVE
- 1) I demand that he do it (subjective: explicit) MOST SUBJECTIVE

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- 2) he must have done it (subjective: implicit)
- 3) he certainly did it (objective: implicit)
- 4) it's certain that he did it (objective: explicit) MOST OBJECTIVE
- 1) I demand that he do it (subjective: explicit) MOST SUBJECTIVE
- 2) he must do it (subjective: implicit)

For highschool literary appreciation essays choose explicitly subjective assessments of probability.



Modality

Goals

The explicit forms (which are 'grammatical metaphors') are only possible with PROBABILITY and OBLIGATION, not (yet) with USUALITY OF INCLINATION.

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Modality

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- 1) I know that he did it (subjective: explicit) MOST SUBJECTIVE
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Modality: Overview as Summary

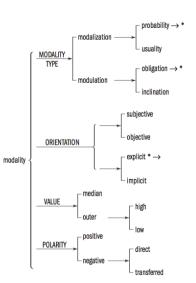


Fig. 4-25 System network of MODALITY

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Modality Goals



 $\frac{\text{MODALIZATION}}{\text{the } \underline{\text{main}}} \ \underline{\text{verb}}); \ \text{so the remote form means "remote in REALITY"}.$



Carl

MODALIZATION is always tenseless (although combinable with any <u>tense of the main verb</u>); so the remote form means "remote in REALITY". But MODULATION can have any tense (combining with – basically – a <u>tenseless main verb</u>).



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MODALIZATION ("indicative" type):



Modality

Goal

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MODALIZATION ("indicative" type):

he may do it - 'possibly he does it'



Modality

Goal

MODALIZATION is always tenseless (although combinable with any tense of the main verb); so the remote form means "remote in REALITY". But MODULATION can have any tense (combining with – basically – a tenseless main verb).

MODALIZATION ("indicative" type):

he may do it – 'possibly he $\underline{\text{does}}$ it'

he might do it - 'very possibly $\textit{he }\underline{\textit{does}}$ it'



Modality

Goals

MODALIZATION is always tenseless (although combinable with any tense of the main verb); so the remote form means "remote in REALITY". But MODULATION can have any tense (combining with – basically – a tenseless main verb).

MODALIZATION ("indicative" type):

he may do it - 'possibly he <u>does</u> it'
he might do it - 'very possibly he <u>does</u> it'
he may have done it - 'possibly he <u>did</u> it'



Modality

Goals

MODALIZATION is always tenseless (although combinable with any tense of the main verb); so the remote form means "remote in REALITY". But MODULATION can have any tense (combining with – basically – a tenseless main verb).

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he may do it - 'possibly he <u>does</u> it'
he might do it - 'very possibly he <u>does</u> it'
he may have done it - 'possibly he <u>did</u> it'
he might have done it - 'very possibly he <u>did</u> it'



Modality

Goal

MODALIZATION is always tenseless (although combinable with <u>any tense of the main verb</u>); so the remote form means "remote in REALITY". But MODULATION can have <u>any tense</u> (combining with – basically – a <u>tenseless main verb</u>).



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MODALIZATION ("indicative" type):

he may do it - 'possibly he does it'

he might do it - 'very possibly he does it'

he may have done it - 'possibly he did it'

he might have done it - 'very possibly he did it'

(- the remote form (here: might) can mean 'toned down' (weaker),

OR 'toned up'(stronger), depending on the tone contour used—)

MODULATION ("imperative" type):
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Modality

Goals

MODALIZATION is always tenseless (although combinable with any tense of the main verb); so the remote form means "remote in REALITY". But MODULATION can have any tense (combining with - basically - a tenseless

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                                    MODULATION ("imperative" type):
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                     he is allowed to do it - 'someone allows him to do it'
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                 he was allowed to do it - 'someone allowed him to do it'
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                 he was allowed to do it - 'someone allowed him to do it'
         she said he might do it - 'she said someone allowed him to do it'
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                 he was allowed to do it - 'someone allowed him to do it'
         she said he might do it - 'she said someone allowed him to do it'
she thought he might have done it -
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MODALIZATION is always tenseless (although combinable with any tense of the main verb); so the remote form means "remote in REALITY". But MODULATION can have any tense (combining with – basically – a tenseless main verb).

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                 he was allowed to do it - 'someone allowed him to do it'
         she said he might do it - 'she said someone allowed him to do it'
she thought he might have done it -
      'even though he didn't do it, she believed he was allowed to do it'?
```

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MODALITY TYPE and TENSE

MODALIZATION is always tenseless (although combinable with any tense of the main verb); so the remote form means "remote in REALITY". But MODULATION can have any tense (combining with – basically – a tenseless main verb).

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                 he was allowed to do it - 'someone allowed him to do it'
         she said he might do it - 'she said someone allowed him to do it'
she thought he might have done it -
      'even though he didn't do it, she believed he was allowed to do it'?
```

'she considered it very possible that he did it'?



Modality

Goals

MODALITY TYPE and TENSE

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                 he was allowed to do it - 'someone allowed him to do it'
        she said he might do it - 'she said someone allowed him to do it'
she thought he might have done it -
      'even though he didn't do it, she believed he was allowed to do it'?
```

'she considered it very possible that he did it'? (there's ambiguity here - but often it's very subtle!!)





Normally, probability is tenseless (because you've chosen [modal] not [temporal] in the system finiteness type a.k.a. ${\tt MODAL\ DEIXIS}$).



Snals

Normally, probability is tenseless (because you've chosen [modal] not [temporal] in the system finiteness type a.k.a. modal deixis). (KNOCK KNOCK!)



Carl

Normally, probability is tenseless (because you've chosen [modal] not [temporal] in the system FINITENESS TYPE a.k.a. MODAL DEIXIS). (KNOCK KNOCK!)

That must be Professor Steiner = it is certainly him ('present')



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Normally, probability is tenseless (because you've chosen [modal] not [temporal] in the system FINITENESS TYPE a.k.a. MODAL DEIXIS). (KNOCK KNOCK!)

That must be Professor Steiner = it is certainly him ('present') (Who presided over the meeting?)



Gnals

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That must be Professor Steiner = it is certainly him ('present') (Who presided over the meeting?)

It must have been Prof. Steiner = it was certainly him ('past')



. .

Normally, probability is tenseless (because you've chosen [modal] not [temporal] in the system finiteness type a.k.a. modal deixis). (KNOCK KNOCK!)

That must be Professor Steiner = it is certainly him ('present') (Who presided over the meeting?)

It must have been Prof. Steiner = it was certainly him ('past') (Who will be chairman next year?)



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That must be Professor Steiner = it is certainly him ('present') (Who presided over the meeting?)

It must have been Prof. Steiner = it was certainly him ('past')

(Who will be chairman next year?)

It must be going to be Prof. Steiner = it will certainly be him ('future')

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That must be Professor Steiner = it is certainly him ('present') (Who presided over the meeting?)

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It must be going to be Prof. Steiner = it will certainly be him ('future') But if instead of [high] VALUE ('certain') ('99%') you have [low] ('possible') ('50%'), then sometimes the modal verb can refer to the future:



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That must be Professor Steiner = it is certainly him ('present')

(When presided even the meeting?)

(Who presided over the meeting?)

It must have been Prof. Steiner = it was certainly him ('past') (Who will be chairman next year?)

It must be going to be Prof. Steiner = it will certainly be him ('future') But if instead of [high] VALUE ('certain') ('99%') you have [low] ('possible') ('50%'), then sometimes the modal verb can refer to the future:

It may rain tomorrow = perhaps it will rain ('future') ('50%')



.

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It may rain tomorrow = perhaps it will rain ('future') ('50%') People disagree about the meaning of "will" in:



Goale

Normally, probability is tenseless (because you've chosen [modal] not [temporal] in the system finiteness type a.k.a. MODAL DEIXIS). (KNOCK KNOCK!)

That must be Professor Steiner = it is certainly him ('present') (Who presided over the meeting?)

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It may rain tomorrow = perhaps it will rain ('future') ('50%') People disagree about the meaning of "will" in:

It will rain tomorrow



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That must be Professor Steiner = it is certainly him ('present')

(Who presided over the meeting?)

It must have been Prof. Steiner = it was certainly him ('past')

(Who will be chairman next year?)

It must be going to be Prof. Steiner = it will certainly be him ('future')
But if instead of [high] VALUE ('certain') ('99%') you have [low]

('possible') ('50%'), then sometimes the modal verb can refer to the future:

It may rain tomorrow = perhaps it will rain ('future') ('50%')

People disagree about the meaning of "will" in:

It will rain tomorrow

Does it mean ('future') ('100%'), or ('future') ('75%')?



Normally, probability is tenseless (because you've chosen [modal] not [temporal] in the system finiteness type a.k.a. MODAL DEIXIS). (KNOCK KNOCK!)

That must be Professor Steiner = it is certainly him ('present') (Who presided over the meeting?)

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It may rain tomorrow = perhaps it will rain ('future') ('50%')

People disagree about the meaning of "will" in:

It will rain tomorrow

Does it mean ('future') ('100%'), or ('future') ('75%')?

The sun will rise tomorrow at 6:45 a.m. means ('future') ('100%')



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Goal

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It will rain tomorrow

Does it mean ('future') ('100%'), or ('future') ('75%')?

The sun will rise tomorrow at 6:45 a.m. means ('future') ('100%')

Don't be fooled by grammarians pretending to be philosophers! The grammar of a natural human language IS its OWN philosophy, and DOES contain the notion '100% certain knowledge of the future'!!

Homework



Gnals

 Your homework for next week is to complete Exercise Sheet 4b, which was handed out in class and which contains a page from last summer semester's exam.

In case you missed the class, the exercise sheet is also available here:

http://www.spence.saar.de/courses/grammar/questions04b/ index.pdf

Acknowledgements, further reading, other sources



Modality Goals

Most of the ideas presented here come from M.A.K. Halliday, An Introduction to Functional Grammar, 2nd edition 1994 ("IFG2") or 3rd edition 2004 ("IFG3").

Further reading: Halliday 2004, chapter 4.5 and chapter 10.3 (or Halliday 1994, chapter 4.5 and chapter 10.4).

See also: Annabelle Lukin's "prezi" slide on Modality (on Vimeo):

https://vimeo.com/album/2028694/video/51422776