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THE SEMANTICS OF OLD HUNGARIAN FLOATING Mind 'ALL' Ágnes Bende-Farkas agnesbf @gmail.com proud to have been affiliated with the HUNGARIAN ACADEMY OF SCIENCES

# **1** Introduction

Two quotes from Zeno Vendler (Vendler (1962), p. 145.):

The theory of quantification is supposed to provide us with a clear model of the logical import of such particles of language as "all", "every", "each", "any" and "some".

The fact that the theory succeeded in clarifying some logically important points does not show that all the remaining points are of a mere stylistic but not logical interest.

Long-term project (http://omagyarkorpusz.nytud.hu/en-intro.html ): Generative diachronic analysis of Old and Middle Hungarian. Lately: extended to modern Uralic languages. Part of the project: the expression of quantification in Old and Middle Hungarian. Main research questions:

- Where do today's Hungarian quantifiers come from?
- Given a logic framework (Generalised Quantifier Theory), how are/were its quantifiers expressed during the history of Hungarian?
- How do Old and Middle Hungarian data contribute to ongoing debates? (Free Choice Items, plurals, epistemic indefinites, ...)

In this talk:

- 1. Present main data on Old Hungarian *mind* 'all' (often in tandem with *minden* 'every').
- 2. Semantic analysis: what Old Hungarian data contribute to a proper analysis of *all*-type quantifiers/operators  $\rightarrow$  knowledge concerning the varieties of universal-looking expressions (Vendler: *Each* and *Every*, *Any* and *All*)  $\rightarrow$  Views on the natural language logic interface.

# 2 Data on Old Hungarian *mind* 'all'

Composition: the indeterminate pronoun *mi* 'what', plus the adverbial suffixes *-n*, *-d*. *-n*: manner / cardinality / group forming. (Chief source: Historical-Etymological Dictionary of Hungarian.)

The suffix -n: so-called modal-essive.

(1) Hárm-an voltunk testvérek Three-N be-PAST-1PL siblings 'There were three of us siblings' (MH)

Proposal in the vein of Kratzer–Shimoyama: *mi* is a free variable ranging over alternative non-atomic entities. *-nd* is a function that returns the sum corresponding to that entity.



#### **The Oldest Data**

FSP — Funeral Sermon and Prayer (end of the 12th century): the only expression with a universal construal: *mend*.

Floating, no overt 'associate':

(3) mend ozchuz iarov vogmuc all that-TO walk-GER be-1PL
'All of us are to walk there (to our graves)'
'We are all to walk there'

Preceding the pronominal (Nominative) possessor:

(4) bulsassa **mend w** bunet forgive-SUBJ.3SF all he sin-POSS.3SG-acc 'May He forgive all his sins' ▷ With collective noun: 'entire':

(5) Num heon muganec. ge mend w foianec halalut evec. Not only self-DAT but all he kin-POSS.3SG-DAT death-ACC
eat-PAST '(In the forbidden fruit) he ate death, not only for himself but for all his kin'

*▷ among all*:

- mend w szentíí (6) birsagnop ivtua es he saint-POSS.3SG.PL and Judgment.day arrive-PRCPLE all cuzicun iov felevl unuttei anointed-POSS.3SG.PL right side get-CAUS-INF-3SG ilezie wt iochtotnia make.live-SUBJ.3SG he-ACC 'Come Judgment Day, may He resurrect him on His right, among all His saints and His anointed'
- (7) a.???Seeing Mary among **every** hoodlum...
  - b. Seeing Mary among **all(those)** hoodlums...

## Later OH Data

After the FSP — First attested cases of *minden* 'every' (Königsberg Fragment, Jókai Codex).

*Mind-en* : *mind* + the suffix (modal? modal-essive?) --*n* 

(8)



*Mind* and *minden* diverge in meaning/readings: similarly to the divergence between *all* and *every*. (Collective and reciprocal readings, binding, distributivity, scope, ...)

Old Hungarian Data: After the FSP—Syntax & interface issues:

- 1. *Mind* was an adverbial generated in situ (U.M.).  $\Rightarrow$  NO QR for *mind*.
- 2. *Mind* could be floating (taken to be adjoined to the largest projection containing the *VP*).

- 3. *Mind* could be adjoined to the *DP* (or to a *PP*). Test: position relative to the (Nominative) pronominal possessor.
- 4. Mind was not inflected for case (unlike minden).
- 5. *Mind* triggered definiteness agreement on the verb (when it/its covert or anaphoric associate was a direct object).
- 6. *Mind* could not form compounds, could not be affixed (unlike *minden*).
- ▷ OH Data: Definiteness Agreement
- (9) a. El io eg dongo leg es mind el zagatt'a Away come-3SG one buzz-GER fly and all away tear+DEF.3SG [a pókhálót]

'And then comes a blowfly and tears it(=the spider's web) all to pieces' (Bod Codex 4v)

ember, ez velagi b. morhat ey nappa man, this world-ADJ.SFX riches-ACC night day-TRANSL keresi. el az halal, es **mind** el io seek-3SG, away come-3.SG the death, and all away vezi otole take-+def.3sg from-him 'man pursues worldly riches night and day, but up comes death and takes them all away from him' (Bod C. 4v)

**Def-ness** Agreement

(10) Es hasonlatos a test a kouer lohoz, ..., fel zokuen And similar the body the fat horse-to, ..., up jump-PART, rugwan, mind az foldhoz veri kick-PART, all the earth-to hit++DEF.3SG
'The body is like a fat horse, ... prancing, kicking, it throws (its rider-s-) all to the ground' (Bod C. 5v)

The associate of *mind*:

- 1. Covert.
- 2. In preceding discourse.
- 3. Special case of anaphora: *mind* + demonstratives. (*Mind ez/az* 'all this/that').
- 4. Relative clauses.

5. Ambiguity:

▷ Ambiguity:

(11) Fordollatoc èn hoziam mend tū zūuèteckèl Turn-IMP-PL I to-1SG all you heart-POSS.2PL-with 'Turn toward me, all of you, with your hearts', or, 'Turn toward me with all your hearts' (Vienna Codex 206)

Ambiguity:

 (12) mynd el zakadozot vala az ev kentesenek all away tore be-PERF the she habit-POSS.3SG-DAT vÿa sleeve-POSS.3SG 'the sleeve of her habit became all torn' (St Margaret's Legend, 19v)

(The sleeve had tears all over it, or it became completely torn.)

Collective and Reciprocal Readings

- (13) a. *?Every* student gathered in the hall
  - b. All students gathered in the hall
- (14) a. ??*Every* student shook hands with each other
  - b. *All* students shook hands with each other.

OH (and MH) *mind* and *minden*: like English *all* and *every*. No data in the codices where the Restrictor of *minden* contains a reciprocal or an expression indicative of a collective or reciprocal reading (a verb or the OH equivalent of e.g. *együtt* 'together'; no reciprocal pronouns, either.

Mind and Collective Readings ▷

- (15) a. Tehat mind az zentók egetombe mondanak: Ez az zyz Thus all the saint-PL together say-PL3: This the virgin: 'Thus all the saints said together: This is the virgin' (Kazinczy C. 9v)
  - b. Az kouetkezo nap mind az nep fel goluen: ... az The following day all the people up gather-VÉN: kornol allok: mind Codallyak uala: ... the around stand-GER-PL: all admire-PRES.3SG

be-PERF

'The following day all the people having assembled, all those around it admired it' (Kazinczy C.  $17r\,)$ 

More collective readings

(16) Tehat ime az hagot napra es helre **mind ozue golenek**: Thus lo the leave-PART day-onto and place-onto all together

> gather-IMP-3PL: 'Thus they all assembled on the appointed day, at the appointed place' (Kazinczy C. 61r)

- ▷ *Mind* and Reciprocals
- (17) kyk mind eleygben yonek eg maasnak es who(Rel)-PL all before-POSS.3PL come-3PL one other-DAT and wg tiztolyk eg maasth that-way respect-3PL one other-ACC
  'who all come forward to meet each other, and thus honour each other' (Sándor C. 5v)
  - $\Rightarrow$  OH mind was <u>not</u> inherently distributive!

#### Ontology of Associate

- Individuals (including collections/groups).
  - (18) mÿnd az tellÿes conuent bÿzonsagot tevt rola all the entire convent testimony-ACC placed about-this 'the entire convent testified (unanimously) on this matter' (St Margaret's Legend 11r)
- Abstract entities: the world, emotions, events/facts.

*Mind* as 'entire' — parallel with Romance languages (*tout, toute, tot, toată*):

 (19) mind o ereyet ez velagi heusagra all he force-POSS.3SG-acc this world-DENOM vanity-onto kolti vala spend-PRES.3SG be-PERF
 'He dissipated all his powers/force on worldly vanities' (Bod C. 3v)

Abstract entities, events

 (20) Azert ez bineknek miatta mind ez velag gonozban For this sin-PL-DAT because all this world evil-in vettetett cast-PASS-PAST 'Thus on account of these sins the entire world has been conceived in evil' (Bod C. 2r)

▷ 'Summing up'. Scenario: a nun has a long, detailed vision. She relates it all/all of it to her fellow nuns.

(21) ez beteg soror mÿnd meg monda az sororoknak ez felÿvl meg this ill sister all PRT told the sister-PL-DAT this above PRT mondot latast told vision-ACC
 'This ailing sister recounted fully the aforementioned vision to the other sisters' (St Margaret's Legend, 63v)

Abstract entities:

 (22) kynek zentseges erdemeuel mynd tellÿes anÿa zent egÿhaz nagÿ who-DAT holy merit-with all entire mother holy church great evremel tÿztelÿ joy respects 'whose holiness is joyously revered by the entire church' (St Margaret's Legend, 24r-v)

(23) Ez meg mondot soror kezde zent margit azzont archel verny az moslek vizzel. de ez zent zvz mÿnd bekessegel elzenuede
'The aforementioned sister began to hit Lady Saint Margaret in the face with the slop water, but this holy virgin endured all this patiently' (Saint Margaret's Legend, 13r)

Ontology of associates: - continued -

- Time stretches.
- Spatial regions, trajectories. Regions of the body.
- Degrees of change.
- ▷ Degrees/Paths of change:
- (24) a. Idumea kiralanac tètèmit meg egètte Idumea king-POSS.3SG-DAT bone-POSS3.SG-ACC PRT burned **mend** hamuiglan all ash-till

'He burned the bones of the king of Idumea all (the way) to ashes' (Vienna C. 216)

b. & a. tplom **mend** foldiglèn the. temple all earth-till down-break-CAUSE-PASS-PAST letorèttètet

'the temple was demolished all (the way) to earth' (Vienna C. 261)

What to Associate with

- 1. Entire quantity, or
- 2. smallest/earliest point of the scale;
- 3. final/latest point of the scale.

End of the scale

- (25) mēd ohozia fvtanac a kusdèdtol fogvā mēd annaggiclan all he-to run-IMPF-3PL the little-from begin-PART all the-big-till 'they all ran to him, from small children all the way to grownups' (Vienna C. 38)
- (26) [hogy megadassék a tartozás] mind mentol kisseb fill'eriglen
   [that prt-give-PASS the debt] all SUPERL smaller penny-till
   'so that the debt be repaid, entirely, to the last penny' (Bod C. 17v)

▷ Space, spatial trajectories

- (27) az ev kÿaltassok mÿnd menyorzagiglan fel hallÿk the PRO-3 cry-POSS.3PL all heaven-till up hear-PASS.3SG vala. be-IMP 'their cries could be heard all the way to Heaven' (St Margaret's Legend 41v)
  (28) tahat az wtat mínd be vontat bíboral es barsoníal mínd azenteghazíglan
- (28) tahat az wtat mínd be vontat bíboral es barsoníal mínd azenteghazíglan (Lobkowicz Codex, 7)
  'Thus the road was all covered in purple and velvet, *all* the way to the church'

Regions of the body: The entire region:

(29) az te testódet en **mind** el zagattattatom the you body-POSS.2SG-ACC I all away tear-CAUS-1SG 'I'll have your *entire* body torn to pieces'. (Kazincy Codex 15v) Or: 'I'll have your body *all* torn to pieces'

The endpoint:

(30) Evneky ruhaÿa nemykoron mynd terdig meg She-DAT gown-POSS.3G at-times all knee-till PRT sarosvl vala. muddy-DENOM be-sc perf 'Her gown would at times become muddied all the way to the knee' (St Margaret's legend 26v)

Time

(31) vÿselven mÿnd az tellyes napot nagÿ aytatos sÿralmas spend-PART all the complete day-ACC big pious tearful jmadsagban prayer-in 'spending the entire day in pious, tearful prayers' (St Margaret's Legend 7r)

▷ All the time until:

 (32) ezenkepen al vala mÿnd ebedÿg this-way-N stand be-PERF all lunch-till 'and in this manner she would stand all until lunchtime' (St Margaret, 5v)

 $\triangleright$  Ever since:

(33) mÿnden eztendevben mynd attvl fogva. hog zent margit every year-in all that-from begin-PART that saint margaret azzonnac ÿo okossaga volt ... lady-DAT good cleverness-POSS.3SG was 'in every year, ever since Lady Saint Margaret was of bright enough' (she would wash her fellow nuns' feet at Easter) (St Margaret, 6v)

Time:

(34) hanuazo zerdatvl mÿnd husvetÿk ciliciomot visel vala
 Ash Wednesday-from all Easter-till nail-belt-ACC wear be-PERF
 'from Ash Wednesday, all until Easter, she would wear a belt studded with nails' (St Margaret, 21r)
 (in fact, it was a belt made of porcupine hide, with quills and all)

# 3 The Semantics of Old Hungarian *mind*

## **Background**, eclectically

• Simplest assumption:  $all \cong every$ .

• Refined, generalised: *all* is a generalised distributivity operator (Roberts (1987)). Why 'generalised'? Examples that go back to Barbara Partee:

- (35) a. The car was *all* dirty
  - b. The cars were *all* dirty.
  - Vendler:
- (36) a. All those blocks are yellow  $\models$  Every one of those blocks is yellow
  - b. All those blocks are similar ?⊨ Every one of those blocks is similar -to what?-
  - c. All those blocks fit together ? Every one of those blocks fits together
  - d. The number of **all** those blocks is 17. ?⊨The number of every one of those blocks is 17. (How?)

at least with respect to a given group of individuals, the reference appropriate to "all" is collective, and the reference appropriate to "each" and "every" is distributive. (Vendler (1962): 147)

• Interlude: Doron, recent work on Hebrew *kol*. Also: diachronic work on grammaticalisation of adjectives meaning 'whole', 'full' (Haspelmath (1995)).

• Dowty and Brodie (1984), Dowty (1987): *all* restricts the domain of 'eligible' associates. If the VP is taken to be a function from generalised quantifiers to truth values, *all* restricts the domain of this function to <u>principal filters</u>.

- (37) Def. Given  $A \subseteq U$ , the principal filter generated by A is  $\{X \subseteq U | A \subseteq X\}$ .
- (38) Def. Given a collection  $\mathbf{Q}$  of subsets of U; if there is a subset A of U s.t.  $\forall X \in Q \colon A \subseteq X$ , then  $\mathbf{Q}$  is a principal filter, viz.  $\mathbf{Q}$  is the principal filter generated by A.

• Hoeksema (1996) on Dowty, Dowty–Brodie and on putting van der Does (1992)'s four operators to work.

Hoeksema on the principal filter criterion: examples where the 'associate' of the floating quantifier is an indefinite, and, as such, is not a (pure) principal filter. Discussion: later.

(39) Buildings, docks, vessels, and details of the Arctic landscape are **all** clearly visible. (Hoeksema's (48a))

van der Does (1992) four abstract operators that mimic floating quantifiers; Y: a possibly collective entity; X: a predicate over entities like Y.

(40) a. 
$$\alpha := \lambda X.\lambda Y.[X(Y) \land |Y| = 1]$$
; 'atomic',  $\approx$  alone;  
b.  $\tau := \lambda X.\lambda Y.[X(Y) \land |Y| > 1]$ ; 'collective',  $\approx$  together;  
c.  $\delta := \lambda X.\lambda Y.[AT(Y) \subseteq X]$ ; 'distributive';  
d.  $\pi := \lambda X.\lambda Y.[Y \subseteq \bigcup X]$ ; 'partaking in'.

Hoeksema's variation on Van der Does – X an entity, P a predicate.

(41) 
$$\delta_H(P)(X)$$
 iff  $\forall x \in X \colon P(X)$ .

Hoeksema's all: The count case: disallows distributivity 'all the way down'.

(42) a. 
$$\llbracket all \rrbracket(P)(X) \cong \forall x \in X : P(x); |X| \ge 2.$$
 (Count.)  
b.  $\llbracket all \rrbracket(P)(X) \cong \forall x \ni X : P(x).$  (Mass:  $\ni$  is the material-part-of relation.)

• Brisson (2003): 'pragmatic strenghtening':

- (43) a. The boys were asleep vs
  - b. The boys were **all** asleep.

#### What does OH reveal?

- *Mind* associated with collections / aggregates / groups (entities that could have other entities as parts). (NB mild coercion at times, from abstract entities to their 'worldly' components, from groups-as-atoms to the sets corresponding to those groups.)
- *Mind* required definiteness (associating with familiar, inferrable or circumscribable collections, aggregates or partially ordered sets).
- ⇒ One pragmatic function: marking discourse coherence. (Marking the end of a list, or a complicated list of arguments, e.g.)
- 'Filtering'/Restricting function à la Dowty, Dowty–Brodie: plural discourse referent familiar in the <u>local</u> context of *mind/all*.
- Semantic-pragmatic function: 'pragmatic strengthening' (Brisson).

- (44) a. The boys lifted the piano. (John was in fact sound asleep.)
  - b. The boys **all** lifted the piano. (???John was in fact sound asleep.)
- *Mind* was <u>not</u> inherently distributive. ⇒ certain semantic analyses of English *all* not applicable. (Link, Algebraic Semantics.)

Ingredients of an analysis:

- OH *mind* was an ontologically unspecificed maximality operator.
- It associated with collections/aggregates. (Prediction: overt associate not a quantifying expression. Associate may not contain negation.)

Proposal: *mind* presupposed the existence of such a semantic object. 'Presuppose': in the sense of presupposition-as-anaphora (van der Sandt (1992), Geurts (1999), Kamp (2001)).

On Hoeksema's objection to Dowty's/Dowty et al's Principal Filter Constraint:

- 1. Indefinites CAN correspond to <u>relative</u> principal filters. (Algebraic details: Yoad Winter)
- 2. The discourse referent contributed by the associate: counts as familiar in the LOCAL CONTEXT of *all*.

Proposed operator:

 $(45) \qquad (\partial X); P(\Box X)$ 

Pres.: there is a collection X; assertion: the sum of X has the property P supplied by the (logical) predicate. Presupposition as anaphora: BIND the collective discourse referent X to a suitable discourse antecedent.

No claim that *all/mind* is a trigger on a par with *too*, *again*, or definites. The point: context-dependence.

As a matter of fact, the relating *all/mind* to its associate may involve bridging, sum formation (DRT's abstraction),  $\ldots \rightsquigarrow$  Additional (and possibly later) semantic operations the initial semantic representation obtained as the output of syntax. (Classic DRT fare.)

The point: *mind* was/is not a quantifier.

- Being an operator  $\Rightarrow$  it did not introduce a tripartite quantificational structure of the form **Q** (Restrictor) (Nuclear Scope).
- Prediction: no variable binding in the logic textbook sense.
- Prediction: 'scope' interactions do not resemble those of *minden* 'every'.
- Not predicted but welcome: Found data in codices revealing that *minden* 'every' could be employed for "purely logical" reasons. NO DATA WITH *MIND*.
  - (46) menden test ne gyczewlkewgyek ew every body not glorify(-REFL-)SBJV.3SG he lelkeben soul-POSS.3SG-INE
    'Nobody should glorify his soul' (Jókai C. 128)
    'For everybody it holds that he is not to praise his own soul'

I.e., *nobody* conveyed with *everybody*...*not*. Again, *minden* was employed in this way, *mind* was NOT.

#### ON THE CONTRARY:

- (47) mind ez vylaag sem foghatta volna meg all this world neither catch-POSSIB-PERF.3SG be-COND PRT 'not even the whole wide world could have grasped it' (Érdy C. 54a)
- Unexpected, welcome: *Minden* 'every' was used to form the superlative of adjectives. *Mind* was not. (No data, at least.)
  - (48) Mindennél nagyobb
     Every-than greater
     'Greater than everything' i.e. the greatest.

What about time, space, events, scales?

Time, space, scales:

Full meaning: in tandem with suffixes with a terminative (-*ig* 'till') or an inceptive meaning (-*tól fogva* 'since').

Association with initial/final element of a scale: similarly to the operators *Since* and *Until* (Kamp). Retrospective *Since*:

$$(49) \qquad pSq \cong \exists t [t < n \land q(t) \land \forall t' [t < t' \to p(t)]]$$

Conjecture: *mind*...*-ig* ('all ... until') or *mind* ...*-tól fogva* ('ever since') could have a composite semantics, i.e. possible that one need not rely on *mind* alone when computing their meaning.

The difference between *mindenkor* 'at all times', 'on all occasions' and *mind* ... -*ig* ('at all times until'), *mind* ... -*tól fogván* ('ever since'):

The answer is GAPS. More seriously: The domain of *mind* is a given interval, which it has to 'cover'. Not so *minden-kor* ('every' + the temporal suffix -kor).

*Mindenkor* was used in (arbitrary) generalisations (instead of *mind*). And now the 'gaps':

(50) Es azert myndenkoron predicacio meg vegezuen ewzue And for-that every-when sermon pfx finish-PARTCPLE together gewÿty uala mend az papokat. gather-DEFO.3SG be-PAST all the priest-PL-ACC
'And so he always had all the priests assemble after the sermon was over' (Jókai C. 97)
I.e. Always, when the sermon was over, he assembled all the priests

## In Lieu of a Summary

Old Hungarian *mind* was not a quantifier in the first-order logic textbook sense of this term. Nor was it a quantifier in the generative syntax-sense (QR, binding, ...).

Between a maximality operator, a filtering-strengthening device and a rhetorical device. (Ask me about Jaap van der Does!)

- (51) a. First I told you about A
  - b. then I told you about B
  - c. and about C.
  - d. When you have heard **all** these...

## THANK YOU!

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