Want, unconditionals, ever-free relatives and scalar particles: the sources of free-choice items in Hungarian

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Formal Diachronic Semantics 6
Universität zu Köln
6th-7th September 2021

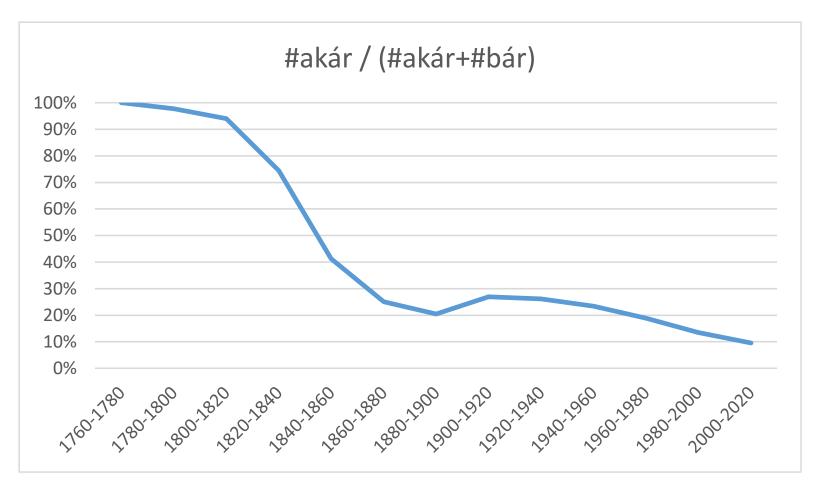
Preliminaries

• The paradigms of FCIs in Hungarian:

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-ki ('who')
                                           -mi ('what')
                                                                    -hol ('where')
                    akárki ('anyone')
                                           akármi ('anything')
                                                                    akárhol ('anywhere')
akár- ('even')
bár- ('even though') bárki ('anyone')
                                           bármi ('anything')
                                                                    bárhol ('anywhere')
                    mindenki ('everyone') mindenmi ('everything')
                                                                    mindenhol ('e.where')
minden- ('every')
vala- (-)
                    valaki ('someone')
                                           valami ('something')
                                                                    valahol ('somewhere')
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- most authors focus on the akár-paradigm and discuss the bárparadigm only in passim if at all (Hunyadi 1991, Abrusán 2007, Szabolcsi 2019)
- Halm (2016) argues that the two paradigms can be used fully interchangebly, with *bár* gaining ground rapidly
- Ongoing debate: is a synchronic compositional analysis viable?
- Today's focus: the akár-paradigm

Akár- vs. bár-



source: Hungarian National Corpus

The problem

- Free-choice items (FCIs):
- (1) Akárki/Bárki előadhat ezen a konferencián (egy jó absztrakttal).

 FCI PRT.give.POSS this the conference.on

 Anyone can present at this conference (with a good abstract).
- Constituent unconditionals (the FCI is focused, as evidenced by stress and PRT-verb inversion, concessive particle is optional):
- (2) Akárki/Bárki (is) adott elő, János mobilozott.

 FCI CONC gave PRT John fiddled.with.cell

 Whoever was giving the talk, John was fiddling with his cellphone.
- (3) Akárki/Bárki (is) adott elő, János érdeklődéssel hallgatta (azt/őt).

 FCI CONC gave PRT John interest.with listened 3sG

 Whoever was giving the talk, John listened to her with interest.

- Ever-free-relatives (ever-FRs):
- (4) János lenyűgözve hallgatta (*azt), akárki/bárki (is) volt
 John stunned listened DEM FCI CONC was
 a meghívott előadó.
 theinvited speaker
 John listened with adoration to whoever was the invited speaker.
- (5) János lenyűgözve hallgatta ((mind) azt),
 John stunned listened all DEM
 amit csak mondtak a konferencián.
 what only said the conference.on
 John listened with adoration to whatever was said at the conference.
 John listened with adoration to all that was said at the conference.

Some first observations:

- different divison of labour:
 - English has wh-ever for unconditionals and ever-free-relatives, any- for FCIs
 - Hungarian has akár-/bár- for all three (plus there is rel.pron. + minimizer for ever-free-relatives)
 - English has a lexical strategy, Hungarian a syntactic one: focused
 FCIs give us unconditionals and ever-free-relatives
- focused-FCI ever-FRs seem to be headless (true free relatives untypical for Hungarian)
- rel.pron.+minimizer ever-FRs seem to be light-headed relatives (typical for Hungarian)

Unification efforts:

- Unconditionals and FCIs: Szabolcsi (2019), Fălăuş & Nicolae (to appear) a.o.
- Unconditionals and ever-FRs: Hirsch (2016), Simík (2018, 2020) a.o.
- Ever-FRs and FCIs: Dayal (1997), Giannakidou (1997, 2001) a.o.

Why Hungarian and why diachrony:

- the same lexical element in FCIs, unconditionals and ever-FRs: calls for a unified and compositional account
- focusing plays a role
- and-coordination in unconditionals historically, also: non-identical consequents historically
- crosslinguistic perspective

Claims

- A fully compositional analysis of all things akár- (or bár-) does not appear feasible synchronically
- Old and Middle Hungarian data support Rawlins's (2013) model of unconditionals: conjunction-based, pointwise functional application
- Modern Hungarian data support Hirsch's (2016) model of unconditionals and ever-FRs
- Hungarian has two types of ever-FRs
- Hungarian has definite (non-universal) ever-FRs (contrary to reports such as von Fintel (2000) or Simík (2020))
- Hungarian has true free relatives (contrary to previous claims)

A more detailed look at FCIs in Hungarian

- Syntax: quantifier positions (like distributive universal quantifiers)
 (Halm 2016ab)
- Semantics: need to be licensed by an appropriate modal-ish operator (possibility modal, antecedent of conditional etc.)
- more formally, I adopt the dependent indefinite approach (Giannakidou 1997 a.o.):
 - FCIs are represented as intensional indefinites, i.e., dependent indefinites which contain a possible world variable that must be bound by an appropriate intensional quantificational operator (i.e., it cannot be bound by text-level existential closure) in order to be licensed

 plus there is presupposition of exhaustive variation: in the accessible possible worlds, different values are assigned to the FCI, and these assignments taken together exhaust all the available values from the domain of quantification

Free-choice items: Illustration

(6) Akárki/Bárki bebizonyíthatja a Pitagorasz-tételt.

FCI PRT.prove.poss the Pythagoras-theorem

Anyone can prove the Pythagorean theorem.

w1 w2 w3 w4

János x x

Mari x x

Peti x

Anna x

 All the individuals are such that at least in one of the (epistemically, modally, counterfactually etc.) accessible possible worlds, they prove the theorem.

Constituent unconditionals (focused FCIs)

- Syntax: adjuncts, something in the adjunct can be quasianaphorically picked up in the consequent by a pronoun (but it does not have to)
- FCIs is focused (also the canonical position for wh-words in questions)
- Semantics: a set of different antecedents with the same consequent:
- (7) Akárki/Bárki adott elő, a közönség szkeptikusan hallgatta (azt/őt).

 FCI gave PRT the audience skeptically listened 3sG

 Whoever gave the talk, the audience listened to her/him with skepticism.
- there is an inference of ignorance or indifference

Alternative unconditionals

- (8) Akár Chomsky (adott elő), akár Jackendoff (adott elő), whether Chomsky gave PRT whether Jackendoff gave PRT akár Everett adott elő, a k. sz. hallgatta (?azt/őt). whether Everett gave PRT the a. sk. listened 3sG Whether Chomsky gave the talk, or Jackendoff gave the talk or Everett gave the talk, the audience listened to him with sk.
- akár 'if.UNCOND' is prefered but ha 'if' is also acceptable, especially with a pair of unconditions:
- (9) Ha esik, ha fúj, augusztus 26-án Pécsett leszek.
 if rains if blows August 26-on Pécs.in will.be
 Whether it rains or there is wind, I will be in Pécs on August 26th.

- crucially, you cannot do alternative unconditionals with *bár*:
- (10) *Bár Chomsky (adott elő), bár Jackendoff (adott elő), whether Chomsky gave PRT whether Jackendoff gave PRT bár Everett adott elő, a k. sz. hallgatta (?azt/őt). whether Everett gave PRT the a. sk. listened 3sG Whether Chomsky gave the talk, or Jackendoff gave the talk or Everett gave the talk, the audience listened to him with sk.

Unconditionals (focused FCIs): Model

- Rawlins's (2013) model (as formulated by Hirsch 2016):
 - o intuition: an unconditional is a conjunction of conditionals
 - wh-ever XP is an interrogative CP denoting a Hamblin question, a set of propositions
- (11)[[whatever Mary cooked]] ={ λ w. Mary cooked pasta in w, λ w. Mary cooked pizza in w,...} -> the propositions are mutually exclusive
 - unconditionals are just like a conditionals:
- (12) Whatever Mary cooked, John had fun.
 - LF: [[□ whatever Mary cooked] John had fun]
 - o wh-ever XP pointwise restricts the modal, yielding:

- o {if Mary cooked pizza, John had fun; if Mary cooked pasta, John had fun;...}
- finally, a silent operator converts this set of propositions into a single proposition:
 - LF: [Op [[□ whatever Mary cooked] John had fun]]
- Szabolcsi (2019): different model see brief discussion later

Constituent unconditionals (focused FCIs): Illustration

(13) Akárki nyeri meg az előválasztást,

FCI wins PRT the primaries

(az/?ő) lesz az ellenzék közös jelöltje.

3sG will.be the opposition joint candidate

'Whoever wins the primaries, she/he will be the joint candidate of the opposition.'

	w1	w2	w3	w4	w5	w6	
Gergely Karácsony	X						
Klára Dobrev		X					
Péter Jakab			X				
András Fekete-Győr				X			
József Pálinkás					X		
Péter Márki-Zay						X	

- All the individuals are such that at least in one of the accessible possible worlds, they will be the candidate of the unified opposition.
- In each relevant accessible possible world, exactly one individual will be the candidate of the unified opposition.

ever-FRs (focused FCIs)

- syntax:
 - focus position, just like wh-words in questions (crosslinguistically, ever-FRs are often more question-ish than nonever-FRs)
 - no overt light head
- semantics
 - definites or universals: they trigger definite conjugation, universal inferences derive from variation across possible worlds/situations
 - uniqueness (similarly to unconditionals):

- (14) Egy szép serleggel jutalmazták akárki nyerte meg aversenyt.

 a nice cup.with honoured FCI won PRT the race

 'Whoever won the race was awarded a beautiful cup.'
- (15) #Egy oklevéllel jutalmazták akárki futottale a távot.

 a certificate.with honoured FCI ran PRT the course int.: 'Whoever completed the course was awarded a certificate.'

 (incompatible with our world knowledge that almost certainly several contestants managed to complete the course)
- (16) Egy oklevéllel jutalmazták aki csak lefutotta a távot.

 a cert.with honoured REL.PRON only PRT.ran the course 'Whoever completed the course was awarded a certificate.'

ever-FRs (focused FCIs): Illustration

(17) El kell fogadnunk (*azt), akármit (is) ítél a játékvezető.

PRT must accept DEM FCI too judges the referee

We have to accept whatever the referee decides.

w1 w2 w3 w4
kirúgás 'goal kick' x

tizenegyes 'penalty' x
szöglet 'corner' x
bedobás 'throw-in' x

• All the calls are such that they are made in at least one of the accessible possible worlds.

• In each accessible possible world, exactly one of the calls is made. (We are interested in possible worlds that differ only in terms of the call to be made by the referee.)

Ever-FRs (focused FCIs): Model

- Hirsch's (2016) model for wh-ever with indifference reading (extended by Simík (2018) to cover readings other than indifference plus crosslinguistically)
- property-based
- unified model for unconditionals and ever-FRs
 - (18) John ate whatever Mary cooked. ~ Whatever Mary cooked, John ate it. ~Whatever Mary cooked, John ate what Mary cooked.
- solution: [[whatever Mary cooked]] is actually a property
- as sister to a silent question operator Q (George 2011), [[wh-ever XP]] is converted from property into set of propositions, a sister of D (within the consequent), it is converted by the iota operator from property into definite description

- my proposal for Hungarian:
- as per Giannakidou (1997), FCIs denote properties
- Q operator in Hungarian is associated with the focus position
- as a bonus, we get the presupposition of uniqueness and existence

Ever-FRs (rel.pron.+min.)

- syntax:
 - relative pronoun in Spec,CP
 - minimizer very close to relative pronoun
- (19) Aki csak (szerencsétlenségére) beleivott a vízbe,
 REL.PRON only unluckily PRT.drank the water.into
 az mind kórházba került.

DEM all hospital.into got

'Whoever in her misfortune tasted the water was hospitalized.'

(20) Aki (szerencséjére) csak beleivott a vízbe,

REL.PRON luckily only PRT.drank the water.into

annak nem lett baja.

DEM not was trouble.3sg

'Those who luckily only tasted the water escaped unscathed.'

(21) János lefotózott minden hülyeséget, amit csak meglátott.

John photographed every silliness DEM only PRT.saw

'John photographed whatever stupid thing he came across.'

• semantics:

- variation, modal inferences; def.-univ.
- intuitively: 'those individuals that meet this very minimal, unexacting condition'

ever-FRs (rel.pron.+min.): illustration

(22) Aki csak elindult, (az) (mind) célbaért.

REL.PRON only PRT.started DEM all finished

'Whoever entered the competition completed the course.'

	elindult				célb	célbaért			
	w1	w2	w3	w4	w1	w2	w3	w4	
János	X	X			X	X			
Mari	X		X		X		X		
Peti	X		X		X		X		
Anna		X		X		X		X	

Interim summary of the Modern Hungarian situation

- akár+wh or bár+wh unfocused: FCI
- akár+wh or bár+wh focused: constituent unconditional or ever-FR
- akár..., akár..., akár... [...]: alternative unconditional
- *bár..., bár..., bár... [...]: alternative unconditional (intended)
- free-standing akár: scalar particle (see next page)
- free-standing bár: concessive particle (see next page)

Akár and bár on their own

- (23) Akár 100 kilométert is lefut Mari.

 SCALAR hundred kilometers CONC PRT.runs Mary.

 'Mary can run as many as 100 kilometers.'
- (24) Bár nagyon igyekezett, nem járt sikerrel János.

 CONC very tried.hard not went succes.with John
 'Even though János was trying very hard, he failed to succeed.'

From want to unconditional if and scalar particle (the akár-paradigm)

- In modern Hungarian, akár can be used as 'unconditional if' and as a 'scalar particle':
- (25) Akár elutazik Mari, akár otthon marad, if.UNCOND PRT.travels Mary if.UNCOND at.home stays a mobilján biztosan eléred. the cell.his.on surely PRT.reach '(No matter) whether Mary will travel away or stay at home, you will be able to reach him on his cell.'
- (26) Akár 100 kilométert is lefut Mari.

 SCALAR 100 kilometres too PRT.runs Mary
 'Mary can run as many as 100 kilometres.'

- Kassai (1817), Czuczor & Fogarasi (1862), Simonyi (1881) assume that the verb *akar* 'want' is the source of both *akár*s
- Klemm (1928) proposes (without evidence) that the scalar particle emerged first and the unconditional if second, and the locus was imperative sentences containing a 2SG form of akar 'want'.
- My detailed corpus analysis shows that in L & M Hungarian, akár is almost exclusively found as introducing alternative unconditions.
- My proposal: alternative unconditions were the locus of reinterpretation.
- In Old, Middle and Modern H, ha'if' could be used in alternative unconditionals too, and optional if-drop was widespread:

- (27) a. (Ha) akar-Ø, elutazik, (ha) akar-Ø, itthon marad-Ø [...]
 if wants PRT.travels if wants at.home stays
 b. akar elutazik, akar itthon marad-Ø [...]
 if.UNCOND PRT.travels if.UNCOND at.home stays
 'Whether he wants to travel away or he wants to stay at home,
 - akar 'if.UNCOND' to akár 'if.UNCOND' is a case of the lengthening of a pre-liquid vowel in an unstressed syllables, a general phenomenon (Horger 1914). Dialectally, akar 'if.UNCOND' is still attested.

- similar grammaticalization pathway for akár 'scalar particle':
- (28) a. (Ha) akar-Ø, tíz könyvet is hozhat.

 if wants ten book too bring.POSS

 'If he so wants, he may bring as many as 10 books.'
 - b. Akár tíz könyvet is hozhat.even ten book too bring.POSS 'He may bring as many as 10 books.'
 - Since pairs of unconditions involve extremes, opposite ends of a scale, a derivation of akár 'scalar particle' from akár 'unconditional if' is also conceivable.

From unconditionals to ever-free relatives to FCIs

- Quantification in Old Hungarian happened by way of indeterminate pronouns (denoting Hamblin sets of propositions) bound by propositional operators (Bende-Farkas 2015).
- Proposal: such wh-indeterminates served as direct inputs to unconditionals (cf. Rawlins 2013):
- (29) akár hol mit talál, mindent össze szed (AL. 216) if.UNCOND where what finds everything PRT collects 'No matter what he finds and where, he collects everything.'
 - Note that (29) would be ungrammatical in Modern Hungarian, where the intended meaning can be rendered only as below:

- (30) akárhol akármit talál, mindent össze szed

 FCI FCI finds everything PRT collects
 'No matter what he finds and where, he collects everything.'
 - Grammaticalization pathway: if.uncond+wh-indeterminate sequence reinterpreted as a single lexical unit of property type (Hirsch 2016) in focus position (note that in O & M Hungarian, verbal particles were much rarer than today):
 - (31) a. akár mit talál, mindent összeszed if.UNCOND what finds everything collects
 - b. akármit talál, mindent összeszedFCI finds everything collects'Whatever he finds, he collects everything.'

- -> focused FCIs giving us ever-FRs and unconditionals
- parallel processes wrt to universal quantifiers (minden+ki -> mindenki) and existentials (vala+ki -> valaki) are discussed by Bende-Farkas (2015)
- final step: akár+wh compounds appear in non-focused positions as FCIs bound by other intensional operators
- at this point, akár-FCIs start to crowd out established rivals:
 - the vala-paradigm (existential indefinite bound by silent FCIoperator): survives in valahányszor 'whenever' (literally: sometimes)
 - o the wh-indet bound by operator paradigm (survives in ha-(un)conditionals up until 19th C: ha ki 'whoever')
- later, bár-paradigm emerges and starts to crowd out akár-paradigm (ongoing)

Corpus evidence

Date	Text	alternative uncond	constituent uncond / ever-FR	any-FCI	constituent uncond / ever- FR or any-FCI	alternative uncond or constituent uncond / ever- FR	scalar	scalar / any-FCI	other	total
1440	Jókai Codex	1								1
1450	Vienna Codex	3								3
1474	Birk Codex	5								5
1508	Guary Codex		2							2
1508	Medical Prescriptions		1							1
1515	Cantio Petri Berizlo			1						1
1519	Jordánszky Codex	1	3	1						5
1521	Booklet	1	1			2				4
1525	Bod Codex					3				3
1534	Kazinczy Codex	1								1
1536	Pesti Bible			2	2			1		5
1541	Sylvester Bible	33	13	7	1	3			4	61
1565	Heltai Bible	22	3	1	2	2		1	1	32
1590	Károli Bible	10	3	6	2	2	1		1	25
1626	Káldi Bible	23	4	13	3		4	2	1	50
Total		100	30	31	10	12	5	4	7	199

source: Old Hungarian Corpus

- No FCIs before 1500. Corroborates our claim that FCIs derive from unconditional if.
- No scalar *akár* before 1536: lends some credibility to the claim that scalar *akár* derives from akár 'if.uncond' and not directly from *akar* 'want'.
- Any-FCIs emerge earlier and are more numerous the instances of scalar *akár*. Corroborates the proposal that any-FCIs derive from whever-FCIs and not from scalar *akár*.
- Any-FCIs emerge later than wh-ever-FCIs. Corroborates the hypothesis (together with the strong attestation of reinterpretation situations) that any-FCIs derive from wh-FCIs.
- Gradual spelling change: akár mi -> akár-mi -> akármi

Diachronic evidence for a Rawlins-style analysis of unconditionals (conjunction of antecedents, pointwise functional application)

- Two models:
- (32) [p->r] AND [q->r] conjunction, pointwise
- (33) [p OR q] -> r disjunction, flat
- Old and Middle Hungarian:
 - \circ Antecedents connected by $(\acute{e})s$ 'and': [p->+] AND [q->r] (deletion under identity)
- (34) Annak okairt akar îll'ünk 's akar meghall'unk
 therefore if.UNCOND live and if.UNCOND die
 az vriſtenę vaġunk.
 the Lord's are

'Therefore, whether we live or die, we belong to the Lord.' (KJV: Whether we live therefore, or die, we are the Lord's.')

Sylvester Bible (1541), Romans 14:8

- unconditionals with distinct (though in some sense similar)
 consequents: [p->r] AND [q->r']
- (35) Mert akár élűnk, az Úrnak elűnk, for if.UNCOND live the Lord.for live akár meg-halunk, az Úrnak halunk-meg. if.UNCOND PRT-die the Lord.for die.PRT

'For whether we live, we live for the Lord, whether we die, we die for the Lord.'

Káldi Bible (1626): Rom 14:8

(KJV: 'For whether we live, we live unto the Lord; and whether we die, we die unto the Lord')

Szabolcsi (2019)

- attempt to give unified account for unconditionals and free choice on a non-interrogative basis (contra Rawlins 2003) in the universal free-choice paradigm
- empirical claim: "in Hungarian, AKÁR expressions serve as NPIs,
 FCIs, and unconditional adjuncts, but not as interrogatives or free relatives"
- I argued above that *akár*-expressions do serve as free relatives and the fact that they undergo obligatory focusing in unconditions and and free-relatives hints strongly at some interrogative business going on
- Szabolcsi (2019) claims that focusing is not obligatory in so-called non-modal unconditionals (ones lacking ignorance or indifference inferences):

- (36) Akárki bejött, nyikorgott a padló. whoever PRT.came squeaked the floor. 'Whoever entered, the floor squeaked.'
- I respectfully argue that this is an inaccurate parsing of the sentence, and the correct one is this (for a more detailed discussion, cf. Halm (2013) and Halm (2016a: 152-154)):
- (37) (Ha) akárki bejött, nyikorgott a padló. if anyone PRT.came squeaked the floor. 'If anyone entered, the floor squeaked.'
- As far as another example discussed in Szabolcsi's (2019) is concerned, I find, together with numerous informants, that it is actually unacceptable:

- (38) #Akár Mari, akár Kati bejött, nyikorgott a padló.
 either Mary or Kate PRT.came squeaked the floor
 intended: 'Whether Mary entered or Kate entered, the floor
 squeaked.'
- The sentence becomes fully acceptable, however, if the order of the particle and the verb is reversed, in line with my proposal:
- (39) Akár Mari, akár Kati jött be, nyikorgott a padló.
 either Mary or Kate came PRT squeaked the floor
 'Whether Mary entered or Kate entered, the floor squeaked.'
- More generally, a fully compositional analysis of all things akár runs into the problem that while as far as FCIs and ever-FRs are

concerned, the *akár*- and *bár*-paradigms have identical behaviour and functions, this does not extend to alternative unconditionals:

- (40) Akár szorgalmas vagy, akár lusta vagy...

 if.UNCOND diligent are if.UNCOND lazy are

 '(No matter) whether you are diligent or lazy, ...'

 (41) *Bár szorgalmas vagy, bár lusta vagy

 ??? diligent are ??? lazy are
- In general, free-standing akár 'even' and free-standing bár 'even though' do not have the same meaning

Conclusion

- All things *akár* are indeed connected.
- The connection is mainly diachronic.

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