SZEMANTIKA, 6. ELŐADÁS

Kornai András

BME 2020/10/14

Projektek

- A tulajdonnevek és genusaik (Tauber Boglárka)
- Generikusok
- Alapértelmezések (defaults) (Eper Miklós)
- Határozók
- Sokklauzás definíciók (Koncz Máté)
- Más linkerek mint =AGT, =PAT (Havas Tamás)
- Mi a közös ezekben? Mind olyan helyekről szól, ahol az elemzés ereszthet

Engedélykérés HF

- =AGT engedélyt kér X-től 'valaki mástól' Y-ra
- kér valaki valakitől valamit ebbe kell behelyettesíteni azt, hogy amit kérnek az engedély valamire (valakitől)
- request =AGT express/2757[=AGT want[=AGT HAS =PAT]]
- =AGT express [=AGT want [=AGT HAS [permission for [=AGT {do sg}]]]], permission HAS source, tól/től MARK source
- permission for X: =AGT allow =PAT '=AGT[LACK[=AGT stop =PAT]]'
- Ezt is helyettesítsük be! (permission for =PAT) HAS source, tól/től MARK source = =AGT[LACK[=AGT stop =PAT]], tól/től MARK =AGT, ra/re MARK =PAT 'engedély vkitől valamire'
- Van egy csomó elemi és összetett kijelentés: X enged(élyez) Y-t Z-nek; A kér B-t C-től; P csinál Q-t; U megakadályoz V-t és már csak ezeket kell összerakni, meg hogy mit milyen esettel kell jelölni a végén

=AGT, =PAT

- Elsődleges célunk az egyszerű intranzitív (tárgyatlan, egyargumentumos) és tranzitív (tárgyas, kétargumentumos) mondatok kezelése
- Fontos lesz még a kopulatív mondat (a magyarban nincs is ige!) kezelése: angolul A is B (John is angry) magyarul János dühös
- Ezek felvetik a kérdést: what part of is don't you understand?

of bdy abbr boundary

Ibe \(!)be, bi\ vb, past 1st & 3d sing was \(!)waz, (!)waz also ket ()woz or dial were see below or war (;)war; 2d sing ills were \ wa(r); 'war, + V 'war., 'wa, + V " or 'war. also 'war: iah archaic or Brit (;)wa(a)()r or e()r or a(a) or eo or dial & ms archaic was or dial war (with you) or archaic wast (with thou) ge west, (;)wast also (;)wost or wert (with thou) we(r) t. KS) wərlt, (')wəlt, (')wəilt, usu |d.+V\ pl were or substand & las archaic was or dial war; past subjunctive were or substand & :k> archaic was or archaic 2d sing wert (with thou); past part the been (;) bin, bon; ben (in standard speech more often res unstressed or with secondary stress than with primary stress): na-Brit usu & US sometimes (;) ben or dial ben (!) ben of pres part being \'bein, 'been, rapid (')ben or dial Brit & by archaic been \() ben, 'bean pres 1st sing am \am, () am also (:)aa(a)m; after "I" often m or dial is or be; 2d sing are (with ter you) $\langle \varphi(r), \langle \varphi(r), \varphi(r) \rangle$ ar, $\langle \varphi(r), \varphi(r), \varphi(r), \varphi(r) \rangle$ or archaic art (with thou) $\sum \partial(r)|t$, (;) ar|t, (;) a|t, +V usu |d.) or dial be or is (with you) or dial Brit beest (with thou) $\langle (:) best$, $b\bar{c}$ best or **bist** (with thou) (!) bist 3d sing is (!) iz, \bar{z} ; after vowels & after voiced consonants other than z, zh, & j: often z; after voiceless consonants other than s, sh, & ch: often s) or dial Brit be, pl are or substand is or dial & archaic be or archaic been \the last like past part BEEN pres subjunctive

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tast like past part BEEN pres subjunctive be or obs 2d sing beest (with thou) [ME been, fr. OE beon; akin to OHG bim am, ON būa to live, dwell, Goth bauan, L fui I have been, futurus about to be, fieri to become, Gk phyein to bring forth, phynai to be born, be, Skt bhavati he is vi 1 a : to equal in meaning : have the same connotation (sense 3) as $\langle God is love \rangle \langle January is the first month \rangle$ $(\text{let } x \sim 10)$: represent symbolically (the seven lampstands) are the seven churches - Rev 1:20 (RSV) b: to constitute the same idea or object as : have individual identity with (the first person I met was my brother) (the pianist himself was the composer of the piece (\$50 was all I had) c: to constitute the same class as (these three books are the authoritative works on the president's life) d: to have a meaning that includes or implies the meaning of (fish are vertebrates) (red is a color) : have a (specified) qualification or characterization (the leaves are green) (this book is heavy) e: to belong as an individual to the class of (the fish you caught was a trout) **f**: to belong as a class to the larger class of (some animals with horns and divided hoofs are graminivorous animals) — used regularly in senses 1a through 1f as the copula of simple predication g: SIGNIFY : amount to (her death was nothing to him) h: to show oneself as an out-

(some animals with horns and divided hoofs are graminivorous animals) - used regularly in senses 1a through 1f as the copula of simple predication g : SIGNIFY : amount to (her death was nothing to him) h : to show oneself as an outstanding example of - used with main stress in spoken sentences (the doctor pleased the parents by commenting, "That is a baby") i : to constitute genuinely : actualize well the type of (one of the few great elegies which are elegies -Douglas Bush) i : to seem to consist of : show oneself gripped or dominated by (a feeling) (she was all scorn at the proposition) : become completely covered with (road was all mud) 2 a : to exist either absolutely or in relations or under conditions specified : have an objective existence : have reality or actuality : LIVE (Thee, which wert and art and evermore shalt be -Reginald Heber> (I think, therefore I am) - often used with there (once upon a time there was a knight) (there is a wreck ahead) b : to have, maintain, or occupy a place, situation, or position : show a certain characteristic - often used with a prepositional phrase (the book is on the table (he was at ease) c: to remain unmolested, unbothered, or uninterrupted - used only in infinitive form (let him \sim ; stop pestering him) d : HAPPEN, OCCUR : take anacet

(let nim \sim ; stop pestering nim) a : HAPPEN, OCCUR : take place (the concert was last night) (where will the meeting \sim) e archaic : BELONG, PERTAIN (to thine and Albany's issue \sim this perpetual —Shak.) f (1) : to come or go : JOURNEY (we will \sim on our way shortly) (have you been home since Christmas) (2) : to make a stay : show oneself or be present (they will \sim in town all week) (was your sister at the party last night) — not used in the present; use of the past tense followed by to (I was to town yesterday) often considered nonstandard g: to come around in due course often in following a schedule or appointed round -- used only in perfect forms (has the postman been this morning) h substand : ACT — used only in the perfect; used as an intensive (see what you have been and done) 3 now dial Brit : to stand good for expense (as in a treat) (offering to \sim his friend's dinner > ~ verbal auxiliary 1 : to undergo an action - used with the past participle of transitive verbs as a passive= voice auxiliary (the money was found) (German is spoken here) (the house is being built) 2: to perform a continuous action : be supposed to perform a future action - used as the auxiliary of the present participle in the so-called progressive tenses, usu. expressing continuous action (he is /T have

gressive tenses, usu. expressing continuous action (he is reading) (I have been sleeping) (the house is being built) but sometimes in present-tense form expressing future noncontinuous action (he is leaving tomorrow) 3 : to have changed place or condition as a result of completing an action - used with the past participle of certain intransitive verbs as an auxiliary forming archaic perfect tenses (Christ is risen from the dead -1 Cor 15:20 (DV)) (the minstre boy to the war is gone — Thomas Moore) 4 : become supposed : become destined -- used with the infinitive with to to express futurity, arrangement in advance, or obligation (I am to interview him today) (he was to become one of the most famous men of his century) (you are to repay the loan in monthly installments) - usu. not used in the form of an infinitive or participle 5 : to undergo a continuous action : be in the process of — used in a passive sense with the present participle or with the gerund preceded by the prefix a- or the preposition a (while the ark was building -1 Pet 3:20 (NCE) (when the ark was a building -1 Per 3:20 (DV)); now usu. replaced by the passive construction with being followed by the past participle, as in 1 and 2

CAMBRIDGE ENGLISH DICT be/1

- used to say something about a person, thing, or state, to show a permanent or temporary quality, state, job, etc. He is rich. It's cold today. I'm Andy. That's all for now. What do you want to be (= what job do you want to do) when you grow up? These books are (= cost) \$3 each. Being afraid of the dark, she always slept with the light on. Never having been sick himself, he wasn't a sympathetic listener. Be quiet! The problem is deciding what to do. The hardest part will be to find a replacement. The general feeling is that she should be asked to leave. It's not that I don't like her - it's just that we rarely agree on anything!
- used to show the position of a person or thing in space or time The food was already on the table. Is anyone there? The meeting is now (= will happen) next Tuesday. There's a hair in my soup.
- used to show what something is made of *Is this plate pure gold?* Don't be so cheeky! Our lawyers have advised that the costs

CAMBRIDGE ENGLISH DICT be/2

- used to say that someone should or must do something You're to sit in the corner and keep quiet. Their mother said they were not to (= not allowed to) play near the river. There's no money left - what are we to do?
- used to show that something will happen in the future We are to (= we are going to) visit Australia in the spring. She was never to see (= she never saw) her brother again.
- used in conditional sentences to say what might happen If I were to refuse they'd be very annoyed. (formal) Were I to refuse they'd be very annoyed.
- used to say what can happen The exhibition of modern prints is currently to be seen at the City Gallery.
- to exist or live (formal) Such terrible suffering should never be. (old use or literary) By the time the letter reached them their sister had ceased to be (= had died).

LDOCE be

- used with past participles to form the
- used in sentences about an imagined situation
- used in sentences to introduce an aim when you are saying what must be done in order to achieve it
- used to say that someone or something is the same as the subject of the sentence
- used to say where something or someone is
- used to say when something happens
- used to describe someone or something, or say what group or type they belong to
- to behave in a particular way
- used to say how old someone is
- used to say who something belongs to
- used to talk about the price of something
- to be equal to a particular number or amount
- 🔋 to exist

LDOCE be+

This is the fun part: 1,429 expressions from *be taken aback (by sth)* to *be yours for the taking/asking*. Most of these appear to be perfectly compositional *be able to do sth* 'to have the skill, strength, knowledge etc needed to do something'; *be wrong (about sb/sth)* 'to not be right in what you think or believe about someone or something'

The difficulties predate Webster's 3rd: *Webster's New World* (going back to 1951) uses even more vague terms in the definition, such as 'used to express futurity, possibility, obligation, intention, etc'; *The Concise Oxford* (1911) has, distributed among several senses, 'exist, occur, live, remain, continue, occupy such a position, experience such a condition, have gone to such a place, busy oneself so, hold such a view, be bound for such a place, belong under such a description, coincide in identity with, amount to, cost, signify'.

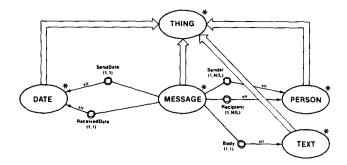
COLLINS *be*

- to have presence in the realm of perceived reality, exist, live
- not all that is can be understood
- to pay a visit, go
- have you been to Spain?
- to take place, occur
- My birthday was last Thursday
- used as a linking verb between the subject of a sentence and its noun or adjective complement or complementing phrase. Has no intrinsic meaning of its own but rather expresses the relationship of either essential or incidental equivalence or identity or to specify an essential or incidental attribute. It is also used with an adverbial complement to indicate a relationship of location in space or time

FORMULAS

- Resemble dictionary definitions, designed for human readability
- Conjunctive top-level, avg 2.7 conjuncts (max 9 found so far) camera kamera cinematographica_machinula kamera 1221 N machine, make photograph, HAS lens
- Make =AGT CAUSE [=PAT[exist]]
- Syntactic sugar: x IS_A y can be written as x[y] or as y(x)
- Defaults are in < >, grouping by { }
- Only one quantifier: gen, treated as a noun (no scope). Two thematic roles (VBTOs), no ternary relations Kornai:2012
- \circ < 20 binaries, < 600 core (uroboros) vocabulary elements

CLASSIC KR



"A MESSAGE is, among other things, a THING with at least one Sender, all of which are PERSONs, at lease one Recipient, all of which are PERSONs, a Body, which is a TEXT, a SendDate, which is a DATE, and a ReceivedDate, which is a DATE."

41ang GRAPHS

- Don't have a huge variety of links: 0 (is/is_a); 1 (subject); 2 (object)
- In contrast, Cyc has over 45.000 link types, and more contemporary efforts like DBpedia or YAGO have 10⁵ 10⁶. The vast majority of these are like *isSpouseOf*, obviously compositional
- To get compositional links right, one needs to deal with *is*, *of* as well as with *spouse* 'husband or wife'.
- Note effortless transition from disjunction of common nouns to disjunction of relations *isHusbandOf or isWifeOf*! This makes sense iff *is spouse of* is indeed *is (husband or wife) of* i.e. iff the meanings of words (their definitions) can be substituted salva veritate
- 41ang graphs are built on RDF-like "triple stores", explicitly addressing known difficulties with these such as negation, quantifier scope, nested modals and relations of seemingly

QUILLIAN, SCHANK

Semantic Memory

Conceptual Dependency

