Introduction to Hebrew Linguistics

('Inleiding Hebreeuwse Taalkunde')
UvA, Weeks 10-11

Morphology

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Morphology

- Morphology: studies the inner structure of words. Well, what is a word?
- Word: No general definition
 - Syntactic word: basic unit of a sentence.
 - Phonological word: domain of some phonological processes (e.g., stress assignment, vowel harmony).
 - Orthographic word: between two spaces.
 - Clitic: part of the phonological word, but syntactically an independent unit (e.g., articles, French preverbal pronouns, etc.).

Example: Kaleb-letters

- What is the status of Hebrew prepositions ב, ל, ב?
- Orthography: single word. Not a linguistic argument.
- Syntax: preposition is an autonomous unit.
 Merges with article (be+ha = ba), similarly to French du, German vom.
- Phonology:
 - Take a phenomenon that depends on word beginning:
 begat-kefat allophony: [stop] → [fricative] / V___
 - בבית: Tiberian H [bevayit], colloquial Israeli H [bebayit].
 - > TH/BH: clitic + word = single phonological word.
 - Colloquial IH: two phonological words, and begadkefat rule does not apply across word boundary.
 - [bevakaša]: <u>lexicalized</u> unit: diachronically complex, but synchronically in IH <u>monomorphemic</u>.

Morphology

- Morphology: studies the inner structure of words.
 Well, what is a word? No general definition
- Morpheme: Smallest linguistic unit with meaning. (Well, what is meaning?)
 - Free morphemes: can stand alone.
 - Bound morphemes: <u>affixes</u> and "cranberry"-morphemes.
 - Null morpheme: no phonemic material (e.g., Sg. masc.)
 - Allomorph: alternative forms of the same morpheme.
- Morphology: studies the way morphemes are combined.
 - Morpho-phonology: sound changes during morpheme combination (e.g., 't kofschip, V harmony).
 - Morpho-syntax: morpheme combinations in order to enter a sentence (e.g. <u>cases</u>, <u>agreement</u>).

Morphological processes

- Inflection: feminine, plural, construct, binyanim, mishkalim...
- Derivation:
 - Suffixes: BH -i; RH: -ut; IH: -nik, -izaciya
 - Prefixes: IH xad-, du-, tlat-, rav-, bilti-, i-, xoser- etc.
 - Denominal verbs: root extraction + piel/pual/hitpael

• Compounding:

- Smichut: replacing compounding in Semitic
 bet (ha-)sefer, yošev (ha-)roš
- Real compounds in IH: (ha-)yoševroš
- Contracted compounds in IH: ramzor, tapuz
- Acronyms: tanax → tanaxi, duax → ledaveax

(See also slides on vocabulary enrichment)

Nominal morphology

Declension (Proto-Semitic, Ugaritic, Arabic...)

			Masculinum		Femininum	
Akkadian:	Sg. Nom.	ilum	šarrum	iltum	šarratum	nārum
	Acc.	ilam	šarram	iltam	šarratam	nāram
	Gen.	ilim	šarrim	iltim	šarratim	nārim
	Du. Nom.	ilān	šarrān	iltān	šarratān	nārān
	Acc- Gen .	ilīn	šarrīn	iltīn	šarratīn	nārīn
	$Pl.\ Nom.$	ilū	šarrū	ilātum	šarrātum	nārātum
	Acc-Gen.	i lī	šarrī	ilātim	šarrātim	nārātim

(Old) Semitic languages have typically:

- 2 genders (masc, fem), 3 numbers (sing, dual, plural),
- 3 cases (A+G = oblique case) + mimation/nunation.
- Fem. Sg. Proto-Semitic *-at > BH abs. $-\bar{a}$, constr. -at, or -(e)t.
- Fem. Pl. *Proto-Semitic *-āt* > BH -ōt. (Canaanite sound shift)
- Dual *- $\bar{a}n$ > *-ayn (diphthongization) > *-ayin (vowel insertion to avoid diphthong) > *-ayim (by analogy of the plural suffix)

Three cases in Semitic

- Nominative: noun alone, e.g. subject.
- Accusative: noun dependent on verb (object, location)
 - He-locale: remnant of Acc? Ugaritic: phenomenon apart.
- Genitive: noun dependent on noun (possessor following possessed noun, and noun following preposition; NB: prepositions were originally nouns).

- Additionally in Semitic language: status absolutus and status constructus.
- Aramaic: also status emphaticus.
- Arabic and Hebrew: definite article: *han-, with [n]assimilation (or *hal-, with [l]-assimilation), thus gemination.

Dual and <u>productivity</u>

- In Classical Arabic: dual is fully <u>productive</u>.
- Not in Hebrew, even not in Biblical Hebrew.
- Fossilized forms:
 - Body parts: yadayim, raglayim, eynayim, tsipornayim, šinayim... NB: also plural meaning!
 - Time units: yomayim, šnatayim, šaatayim.
 - Numbers: štayim, šnayim, ma(a)tayim, alpayim, paamayim.
 - mayim, šamayim (but not xayim).
- Semi-productivity in IH:

mixnasayim, garbayim, miškafayim, misparayim.

Irregular mishkalim

historically originate from regular patterns

- Stress: in Proto-Semitic, stress on penultimate syllable = syllable before case ending. When case endings were deleted, the stressed syllable found itself in final position. Exception:
- Segolates (e.g. segolate suffixes, such as feminine *-et*)
 - * málkum (Ugaritic malku) 'king' > *malk >
 epenthesis of unstressed vowel [e] to avoid word-final consonant cluster: málek (BH, in pausal position) > vowel assimilation: mélek. Cf. malkē, malka
 - * síprum > séper, siprē; * qódšum > * qódeš 'holiness'
 - Gutturals prefer low vowels: *ná^cr > ná^car 'boy'
 - * báytum > *bayt > 3 strategies: báyit (epenthesis), bét
 (monophthongization), batím (glide deletion).
- Bat, banot: *bintum, binātum > (*bant, banāt ?) > bat, banōt

Verbal morphology

Pronouns, verbal suffixes

```
héber
                                             arab
                                                   arámi geez
                            *-ku
*anāku> BH anoxi > BH, RH ani
                                  > -ti
                                                         -kū
                                             -tu
                                                   -et
*antā > attā > ata
                                                   -t -ka
                            *-ta
                                  > -ta
                                             -ta
*anti > att > at
                            *-ti > -t
                                        -ti -ti -ki
*huwa > hu
                            Ø
*hiya > hi
                                  > -a
```

Perfect form: in Proto-Semitic (also in Akkadian, Egyptian) originally expressed static meaning > West-Sem: perfect aspect > modern West-Semitic languages: past tense meaning.

Adjectival form + pronoun > <u>suffix conjugation</u>.

Null morpheme in Sg3m.

Proto-Hebrew *hiwa* > TibH *hi* ? Therefore *gere perpetuum* ?

Consonant of suffix Sg. 1&2: analogy = paradigmatic leveling:

NW-Semitic and Arabic: [t],

SW-Semitic: [k] (analogy effect by Sg2 possessive suffixes?)

Pronouns, verbal suffixes

```
héber
                                                   arámi geez
                                             arab
                                 > -ti
*anāku> BH anoxi > BH, RH ani
                            *-ku
                                                        -kū
                                             -tu
                                                   -et
*antā > attā > ata
                            *-ta
                                             -ta -t -ka
                                 > -ta
*anti > att > at
                            *-ti > -t
                                        -ti -ti -ki
*huwa > hu
                            Ø
*hiya > hi
                                 > -a
```

Language is a system (de Saussure, 1916): one change in the system may cause a chain of further changes in the system.

Hebrew (one possible story, based on Joshua Blau):

*anāku > undergoes Canaanite sound shift: *anōku > forcing vowel dissimilation (due to preceding [o], and/or due to analogy to pronominal suffixes -i/-ni): *anōki.

This change, in turns, motivates analogical change in Sg1 verbal suffix: Proto-NW-Semitic *-tu > -ti.

This change then triggers change of Sg2 suffix *-ti > -t, to avoid ambiguity in the paradigm.

Prefix conjugations

- West-Semitic: prefix conjugation = imperfect.
- Originally probably expressed <u>aspect</u>, and not <u>tense</u>.
- Hence, waw-consecutive.
- Three moods within prefix-conjugation: -u/-a/Ø suffix
 - <u>Indicative</u>: *yaqtulu > BH yiqtōl
 - <u>lussive</u>: *yaqtul > BH yiqtōl, also wayyiqtōl?
 - Conjunctive, subjunctive:
 - *yaqtula > BH cohortative yiqtōla
- Theme vowel: vowel between 2nd and 3rd root consonant in Qal. The <u>default</u> case is: perfect [a] / imperfect [o].

Gutturals (and a few verbs, e.g., *lamad*): [a]/[a].

Stative verbs: [e]/[a] and [o]/[a]

Biblical H vs Israeli H

Differences:

- Moods disappear. Waw-consecutive disappears.
- Commands: imperative only with frequent (and irregular) verbs.

 Other verbs: future form used, with iussive meaning (tamšix, *tamšex).
- CBH: 2 aspects + participle > LBH, RH: 3 tenses.
- Paradigmatic leveling of unusual forms:
 - 2&3 fem plural of future disappear
 - k^atavtém > katávtem (stress pattern and syllable structure become analogical to rest of paradigm)
 - Irregular forms, e.g. *havinoti > hevanti.*
- Israeli substandard: imperative = future prefix (ptax! > ftax!)

Binyanim

- Non-concatenative morphology: root + pattern (mishkal)
 Typical for Semitic (and Afroasiatic) languages.
- Nominal <u>mishkalim</u>
 - BH: maCCiC, taCCiC...
 - RH: CaCCan...
 - Shem peula for the 5 binyanim.
- Verbal paradigms: hypothetical proto-Semitic <u>binyanim</u>:
 - G = Grund, D = reduplicative (geminate), Š = causative
 - Gu, Du, Šu: passive of G, D, Š
 - tG, tD, Št, ŠtG: reflexive / medio-passive of G, D, Š
 - N: reciprocal or passive of G.

Binyanim = stems

Proto-Semitic binyanim:

```
G = Grund, D = reduplicative (geminating), Š = causative Gu, Du, Šu: passive of G, D, Š tG, tD, Št, ŠtG: reflexive / medio-passive of G, D, Š N: reciprocal or passive of G.
```

Hebrew:

- G = Qal. N = Niphal
- Was there Gu (Ex. 3,2: ukkal; luqqax, etc.)? Passive participle?
- D = Piel, Du = Pual, tD = Hitpael
- Š: initial [š] > Hebrew [h] > Arabic, Aramaic [?]
 - Š > Hiphil, Šu > Hophal
 - Late Akkadian > RH > IH: šaphel causative.

Smaller binyanim

- Šaphel, polel, hitpolel, nitpael, etc.: are they 8th, 9th, 10th stems? Rather piel/hitpael stem with minor changes:
 - Šaphel: first root C is [š], then <u>quadriliteral</u> paradigm.

RH: שעבד 'to enslave', שחרר 'to liberate'

IH: שנטע 'to rewrite', שנעע 'to replant'

(Suggested reading: Nurit Dekel: 'The Šif'el Binyan in Israeli Hebrew: Fiction of Reality? dare.uva.nl/document/164274)

- Polel, hitpolel: in lieu of piel/hitpael of ayin"waw verbs.
- Nitpael: passive/reflexive binyan in RH, synonym of hitpael (probably due to analogy: [n] = passive, [h] = causative; hence a passive must have [n], not [h]).

Irregular verbs

(Usually similar phenomena in other Semitic languages, too.)

- Pe-nun verbs: [n]-assimilation, similarly to prefix-forms of niphal, the preposition p, the verb latet, etc.
- Methatesis of pe-צ/ז/ס/שׂ/שׁ-
 - Additionally: assimilation in being voiced and emphatic
- Gutturals: prefer [a] to other vowels (as theme vowel), prefer chatef to shwa, and they trigger compensatory lengthening.
- Pe-yod: most of them originally pe-waw.
- Lamed-he verbs: originally lamed-yod. (ל'ה: just orthography!)
 *banaytu > baniti (A case for seeing them lamed-tav?)
- Real lamed-he verbs (with <u>mapiq-he</u>; not pronounced in IH):
 to be tall', תמה 'be astonished' כמה 'to long, to yearn'.

Periphrastic tenses, conditional

- Haya + participle:
 - Mishnaic Hebrew: frequency
 rabbi X haya omer... = 'rabbi X used to say'
 - Israeli Hebrew: conditional
 - Ilu / lu + perfect or hayiti/haya...+participle
 - Ilule / lule / ilmale + perfect or hayiti/haya...+participle
 - Also used for expressing politeness in a <u>Standard Average European</u> way?

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UvA, Week 12

Syntax

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Word order: language typology

- Head + modifier or modifier + head?
- Noun + adjective (such as French)
 - Also bayit echad, but shney batim.
- Basic Word Order: svo, sov, vso, vos, ovs, osv
 Verb + complement
 - BH: VSO:
 - וישכם אברהם בבוקר ויחבש [אברהם] את חמורו:
 - IH: Free? SVO? V2? (such as Dutch, German)
- Departure from Basic Word Order
 - Fronting the <u>Topic</u>. Fronting the <u>Focus</u>.
 - : בראשית ברא א' את השמים ואת הארץ

את: <u>Differential Object Marking</u>

- Many languages mark the object only in specific cases:
 Only pronouns (e.g. Dutch, English), only animate (e.g. Russian masculine and neutral nouns), only <u>definite</u> (Hebrew).
- Reanalysis in <u>substandard/colloquial</u> IH:
 - NB: A large proportion of native IH speakers: [h] > Ø
 - And therefore, especially in <u>fast speech</u>:
 phonological <u>contraction</u>: [et + ha] → [ta]

Not (yet?) in written language.

Semantic roles, syntactic positions, morphological cases

- Agent of action = subject of sentence = nominative case.
 - Undergoer of action = object of sent. = accusative case.
- But what about sentence expressing possession?
 - Language type 1: possessor-NOM habeo possessed-ACC
 - Language type 2: possessed-NOM EXISTS possessor-DAT
- Hebrew: יש + possessor-DAT (ל) + possessed-

של: Reanalysis in Mishnaic H

- Expressing possession
 - In Proto-Semitic, Classical Arabic: <u>nomen regens</u> (in construct state) + <u>nomen rectum</u> (in genitive).
 - In BH, no cases.
- Reanalysis in Rabbinic/Mishnaic Hebrew:
 - BH: ל: many uses ("meanings"), among them genitive.
 - <u>Periphrastic</u> construction: ašer le...
 - Proto-RH: še le... (e.g., in Bar Kokhba-letters)
 - Mishnaic Hebrew: birth of a new preposition šel.
 - Proof of reanalysis (beyond orthography):
 še le + ha = še la, but šel + ha does not contract.

Expression of possession in IH

Expressing possession in IH:

Colloquial IH:

- Real possessions: use של
- Smichut: lexicalized expressions, and in lieu of compounding. How <u>productive</u>?

3 ways in formal/official/written IH:

- Smichut
- של (seen as colloquialism)
- Double construction: תמונתו של מיקלאנג׳לו.

Don't confuse colloquialism with slang, jargon, fast speech!

Subordinate clause (bijzin)

- Complementizer (subordinating conjunction)
 CBH ašer, PreCBH, LBH, RH, MedH, IH: še, cf. Aramaic di.
- Reanalysis of ha, participle as adjective → verb of subordinate clause, reanalysis of participle to present tense:
 - ha-yeled ha-kotev
 - ha-yeled ha-kotev mixtav
 - ha-yeled ha-kotev et ha-mixtav
 - yeladim, ha-kotvim mixtavim, rocim kelev
 - yeš yeladim ha-mesaxkim ba-derex
 - Eyn ha-yeladim ha-mesaxkim ba-derex rocim kelev.

Final exam:

Monday, June 6, 11:00 sharp, in PCH 3.08