Morphologically marked semelfactive aspect in Modern Hebrew:



Semitic marking of a Slavic aspect

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Verbs with Quadriliteral Reduplicated Roots ($C_1C_2C_1C_2$) – previously proposed semantic characteristics

Verbs with C₁C₂C₁C₂ roots

from all periods of Hebrew

BZBZ – bizbez (waste)

CMCM – cimcem (reduce)

BLBL - bilbel (confuse)

TKTK – *tiktek (*tick)

KLKL – kilkel (spoil) DGDG – digdeg (tickle)

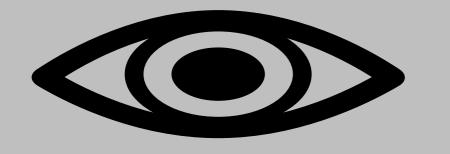
Small group: 138 roots in all periods

39 roots

introduced in

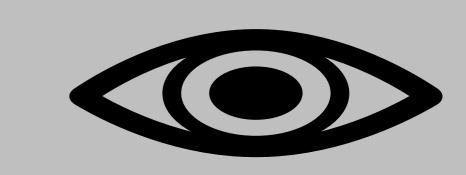
Previously proposed semantic characteristics:

- There is no clear common denominator, some of them iteration, repetition. (Bat-EI)
- Iteration, repetition, but this is only a subset of these verbs. (Schwarzwald)
- Internal pluractionality, but there are also exceptions diminution, semelfactive verbs and others. (Greenberg)



The view from coinages and productivity

Verbs introduced in different periods of Hebrew



Verbs with C₁C₂C₁C₂ roots introduced in Modern Hebrew

Modern Hebrew TKTK – *tiktek (*tick)

HDHD - hidhed (resonate, reverberate)

GXGX – gixgex (giggle)

HNHN – hinhen (nod)

KFKF – *kifkef* (slap repeatably)

DFDF – *difdef* (flip through pages)

RŠRŠ – rišreš (rustle)

CKCK – *cikcek* (click tongue)

li'le' (gargle)

Claim:



have become the exclusive productive form for

Semelfactive verbs

in Modern Hebrew.

Semelfactive verbs

Small group: I found 125 verbs

- denote extended events und minimal event/s
- have **natural atomic structure** (Rothstein)

C ₁ C ₂ C ₁ C ₂	Grammatic behavior with modifiers	Events	Structure	English
in Modern Hebrew			atomic events	examples
tiktek (tick) - TKTK	The clock ticked for an hour.	extended event	^	cough, kick, knock,
	The clock ticked once/twice/again and again.	extended event	////	jump, skip, giggle
		minimal event/s	/ ∤/\/\	

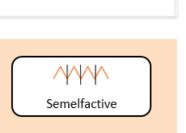
Compared to regular activity verbs:

- denote only extended event
- have **non-atomic structure**

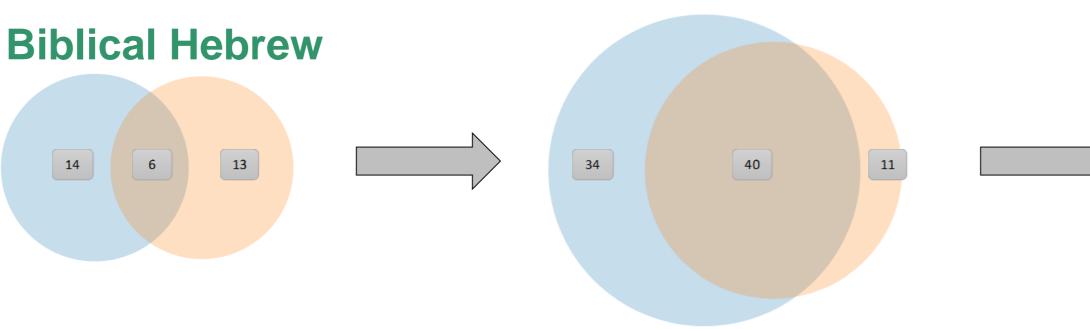
Other roots	Grammatic behavior with modifiers	Events	Structure	English
			non-atomic events	examples
katav (write) - KTV	He wrote for an hour.	extended event	~	speak, write, sing,
	He wrote for once/twice/again and again.	extended event	~~	eat, travel, play

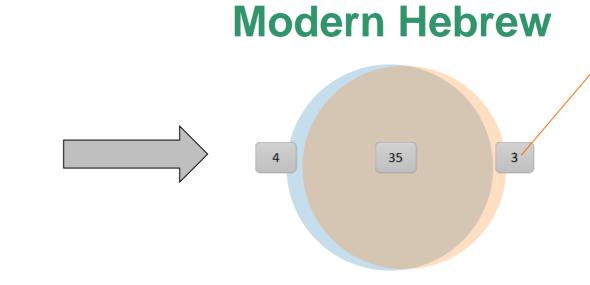
Historical development – verbs introduced in each period

Sources: Etymological dictionaries The slang dictionary of Modern Hebrew Lists of semelfactive verbs in English, Hungarian, Russian



Rabbinic and Medieval Hebrew





The exceptions are principled they are all denominal verbs.

Verbs with $C_1C_2C_1C_2$ roots gradually have become the exclusive encoding for Semelfactive verbs.

Factors that influenced this process

Iconicity: Reduplication + Onomatopoeia in the single verb

tiktek (tk-tk) zimzem (zm-zm) xirxer (xr-xr) cikcek (ck-ck) himhem (hm-hm) rišreš (rš-rš)

Special characteristics of Hebrew verb system.

- 1. 'well suited' for **reduplication**, which iconically represents repetition: C₁C₂C₁C₂.
- 2. 'ill suited' for **onomatopoeia**, which iconically represents a sound. Hebrew vowels are determined by template and inflection, so it can not consistently retain syllable patterns → the onomatopoeic effect is weakened:

zm → lazum, zamti, tazum / lizmot, zamiti, tizme / lezamzem, zimzamti

Verb system 'ill suited' to represent sounds → Representation of repetition is enhanced

Russian Influence in the Revival Period

Russian morphology highlights **Semelfactive pairs** → The speakers created a parallel category in Hebrew.

morgat' - blink (imperfective), extended event morgnut' – blink once (perfective), single minimal event, by suffix *nu*.

2. Hebrew borrowed consonant base from Russian Semelfactive pairs, mostly onomatopoeic verbs.

Hebrew Translation Russian babble (br-br) bormotat'/bormotnut' **bir**ber gogotat'/gogotnut' make noises ga-ga (duck) hmykat'/hmyknut' **him**hem make noises gm-gm clear a throat, cough (xr-xr) harkat'/harknut' **cik**cek click tongue (ck-ck) cykat'/ cyknut' cikcek make noises ck-ck (hills) cokat'/coknut' tick (tk-tk) tikat/tiknut **tik**tek **bis**bes speak in a low voice (bass) basit'

Conclusion: In Modern Hebrew, verbs with Quadriliteral Reduplicated Roots have become the almost exclusive productive way for new Semelfactive verbs. The process began in the earlier periods of Hebrew probably because the Hebrew verb system allows iconic representation of repetition and because of the inclusion of onomatopoeia in this root pattern. It was increased by the influence of Russian substrate in the Revival Period of Modern Hebrew.

Selected references:

Bat-El, O. (2006) Consonant identity and consonantal copy: The segmental and prosodic structure of Hebrew reduplication. Linguistic Inquiry 37/2: 179 – 210. **Bat-El**, O. (2011) Reduplication. Encyclopedia of Hebrew Language and Linguistics 3 (ed. Khan Geoffrey), Brill Comrie, B. (1976) Aspect. Cambridge University Press. Greenberg, Y. (2010) Event Internal Pluractionality in Modern Hebrew: A Semantic Analysis of One Verbal Reduplication Pattern, Brill's Annual of Afroasiatic Languages and Linguistics 2, 119 – 164. Rothstein, S. (2008) Two puzzles for a theory of lexical aspect: semelfactives and degree achivements, Event Structures in Linguistic Form and Interpretation, Dölling J., Heyde-Zybatow T., Schäfer M., eds., Berlin: Mouton de Gruyter, 175–198. Schwarzwald, O. R. (2017) New Verb Formations in Hebrew: Duplication and Addition of Initial, Chelkat Lashon 50, 207 – 223 [In Hebrew]. Smith, C. S. (1997) The Parameter of Aspect, 2nd ed., Dordrecht: Kluwer.

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