

Open-class vocabulary and the granularity of lexical meaning

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Introduction: A cornerstone of much of contemporary formal semantics (especially, but not exclusively, in those traditions rooted in the work of Richard Montague) is a methodological skew towards focusing on “logical vocabulary” (e.g. *every, some, the*). The reason is that accounting for the interpretation of open-class items (e.g. *beauty*) will likely involve the same mechanisms and principles involved in the interpretation of logical vocabulary, along with the added challenge of formulating a theory of the conceptual encyclopedia.

I will argue that this (exceedingly reasonable) methodological choice has created something of an illusion when it comes to the syntax-semantics mapping—namely, that the syntactic terminal plays a privileged role in the “lookup” of lexically-stored meanings (cf. Heim & Kratzer 1998: 43, 48; *i.m.a.*).

Claim: There are at least some natural languages (e.g. languages of the Semitic family) in which open-class vocabulary seldom, if ever, involves a mapping between individual syntactic terminals and lexical meanings.

Evidence: In his discussion of modern Hebrew, Aronoff (2007) notes the existence of consonantal roots like $/k-\{b,v\}-f/$, which in combination with different templates, runs the gamut of meanings from ‘pickles’ to ‘roads’ to ‘conquest’:

- (1) a. $/k-\{b,v\}-f/+CaCuC:$ b. $/k-\{b,v\}-f/+CCiC:$ c. $/k-\{b,v\}-f/+Ci(C)CuC:$
 kvufim (‘pickles’) *kvif* (‘road’) *kibuf* (‘conquest’)

What is less often remarked upon, however, is that even with so-called “well-behaved” roots, the grammatical state of affairs is actually no different. Consider the root $/x-f-\{b,v\}/$ (etymologically: $/h-f-b/$), for example. This root is “well-behaved”, in that all of the verbs and nouns derived from it have something to do with cognition or computation. But even here, there is no way to actually predict which specific meaning goes with which combination of $/x-f-\{b,v\}/$ and a particular template:

- (2) a. $/x-f-\{b,v\}/+CaCaC:$ b. $/x-f-\{b,v\}/+CiC(C)eC:$ c. $/x-f-\{b,v\}/+hiCCiC:$
 xafav (‘think’) *xifev* (‘calculate’) *hixfiv* (‘consider’)

That is, there is no predictive way to tell what each of the items in (2a–c) will mean. (This is not to say that the choice of verbal template is not related to other properties of the verb, besides its encyclopedic meaning, such as its Voice. In the examples in (2), however, each of the meanings could in fact have occurred in any of the other templates. See Kastner 2020, and references therein, for discussion.)

On the assumption that (i) consonantal roots are grammatically real entities of the mental grammar of Hebrew speakers; and (ii) all combinatorics that are not exclusive to the phonology or exclusive to the semantics take place in syntax (i.e., no multiplicity of generative engines; Marantz 1997, *i.m.a.*), it follows that:

- (3) Expressions like (1a–c, 2a–c) involve mappings from *sets* of syntactic terminals to lexical meanings.

The sets in question would involve, minimally, the root plus the n^0 corresponding to each nominal template in (1); and the root plus the v^0 corresponding to each verbal template in (2). It is crucially these sets, and not the individual terminal, that must be associated to a lexically-listed meanings in Hebrew, if we seek to capture the meaning mappings in (1–2).

Importantly, as noted, there is absolutely nothing exceptional about the state of affairs shown in (2), as far as Hebrew is concerned. This is essentially the state of affairs for *every root in the language* that can combine with at least two distinct derivational templates. We can therefore assume, without loss of generality, that this is so even when it comes to those few roots that only ever combine with one derivational template (say, $/k-l-\{b,v\}/+CeCeC = kelev$ ‘dog’). That is, even for such roots, we could still assume that the meaning arises from a joint mapping from root+template to a lexical meaning, as we must anyway assume for the cases in (1–2). Essentially, then, every open-class item in Hebrew is an “idiom”, insofar as that term is taken to denote many-to-one mappings from syntactic terminals to lexical meanings (à la the English *kick the bucket*).

That said, consigning this to the terminological bin of “idiomaticity” risks losing sight of something important. The term “idiom” is typically understood to indicate a marked departure from the linguistic norm—an expression whose syntax-semantics mapping is unusual. But these many-to-one mappings in a

