**Coding**

The committee agreed to my request that you explain your coding decisions for each of the coded words in the short English and Nuuchahnulth passages.

This has now been added to the ends of Sections 3.3.2: English & 3.3.3: Nuuchahnulth, respectively.

Since the reason for coding is often the same for many words, it would be simplest to give each reason for coding, and list the words where this reason applies. The reasons will presumably be straightforward for most cases, but require a couple of sentences for the harder cases.

I liked the idea of this approach, and adopted it in my explanation of the coding decisions.

Below I give my notes where I questioned or disagreed with your coding decision. These are probably the ones where you’ll need a couple of sentences or so to justify your coding decision.

I’ve made sure to address each of the issues on specific data points/decisions that you raised in the description of how I coded the sample passages. In cases where I adopted your proposed change, I’ve also updated my coding of similar data elsewhere in the corpus. However, I wasn’t (yet) able to reflect these changes in the reported statistics and various visualizations, because redoing all of those is a large undertaking and also requires some debugging. I can plan to provide the updated version of these statistics in the published version of the dissertation.

**English**

line 1, *working*MOD: I would exclude because it is overtly coded (*-ing*) and a secondary predicate (not talked about, but doesn’t fit in the three-way classification of propositional act functions)

Including this token in the analysis was unintentional, a vestige of an earlier stage where I was coding postnominal participles as modifiers. I later realized, as you state, that these cases simply fall outside the 3-way classification and so I decided to exclude them. I thought I caught all these cases, but I checked and found a couple hundred more that I had missed for unknown reasons. I’ve now removed all these cases from the analysis.

line 2, *get*PRED *up*: *get up* is a lexicalized phrasal verb, so I would code it as *get*\_*up*PRED (p. 102)

line 4, *got*PRED *pretty bad* : *get* is grammatical (inchoative) and excluded (p. 99); it is arguably an aspectually modulated copula form and overtly coded so *bad* would be excluded from coding, as it was

Agreed on both of these. Honestly I couldn’t tell you why I originally coded them this way, since I was explicitly excluding phrasal verbs, and I clearly considered *got* in that case to be a copula, as you said. In any case, they’ve been fixed now, as well as half a dozen other phrasal verb uses I found in the small corpus sample. (*get* was not examined in the 100-item sample, so no changes were needed there.)

line 6, *looked*PRED *like soldiers*REF: *look like* is grammatical (evidential copular expression); *soldiers* might be excluded due to overt coding if *look like* is treated as a evidentially modulated copula

I don’t think I’d call this a copular expression (I’d maybe treat it as a lexicalized phrasal verb meaning ‘have the appearance of’), but I can certainly agree that *look like* is a complex expression of some sort, and that therefore *looked* here should be excluded from the analysis (but *soldiers* retained). I’ve adjusted the analysis here, and 335 places in the 100-item corpus where this applies as well.

line 7, *street*MOD *clothes*REF: this is a binominal lexeme, and *street* is part of that lexeme, because it is typifying. We discussed this case at length; my preference would be to either code it as a complex nominal (*street*\_*clothes*REF) or, to deal with the data sparsity issue of treating complex lexical items as distinct forms that you raised, just code the head (*street* *clothes*REF)

I agree with you on this and other similar cases of binominal lexemes. However, changing the coding of this case wouldn’t be consistent with how I treated multi-word compounds generally. To be consistent, I either need to leave this case as is, or recode all similar cases. Unfortunately, recoding those cases would involve a great deal of work, because it would require manual reinspection of each token. I think for this study I have to accept that my operationalization of compounds is imperfect, with the result that the English data likely display more reference-modification polyfunctionality than the language actually has. So, I’ve acknowledged this limitation in the section where I discuss my treatment of compounds (end of Section 3.3.2), and stated its potential effect (there, and also in Section 4.3). I’ve also explicitly discussed *street clothes* at length when presenting my coding decisions for the sample passage.

line 8, *“Those are guerillas*REF*!”* : a predicate nominal with a copula, so excluded because it is overtly coded

Not sure how I missed this case (I think I intended the annotation to go on the next token of *guerillas*, which I’ve now done). I checked for other cases where an item coded as a referent or modifier is immediately preceded by a form of *be*, and found 32 other cases to be corrected. These all appear to be coding errors. There were thousands and thousands of instances of copula constructions however, so thankfully this constitutes a very small error rate. (I’m sure there are plenty of other one-off errors I’ve made too, given the size of the data set. If I had funding to do so, I’d love to hire multiple research assistants to help with data coding, to ensure consistency.)

**Nuuchahnulth**

*Verb serialization (we discussed this in the defense):* Nakayama describes serialization as conceptualization as a single state of affairs (Nakayama 2001:98; cf. p. 107), which is also a single complex predication (Nakayama 2001:99-100). Thus, a serial string should be treated as a single complex predicate, not a series of single separate preds. Nakayama calls each serialized element a “clause”, but warns the reader against considering this “clause” to be comparable to “clause” in other languages (i.e. as a comparative concept; Nakayama 2001:76). So this “clause” should not deter us from analyzed the serialized construction as a complex predicate. This is my preferred choice; you made a different choice, so please give the reason for your choice.

I added a discussion of my rationale for coding serial verb constructions as multiple predicates immediately after describing / exemplifying the phenomenon for Nuuchahnulth (after the examples in (44)). I also explicitly acknowledge the alternate analysis you suggest, and hypothesize how the decision to code the data this way may have affected the results.

*Nominalizers:* Nakayama describes the Definite suffix as a nominalizer (2001:41), and Relative and Indefinite Relative suffixes as nominalizers (2001:36-37). Hence it appears they should be treated as overt coding of the reference function and any root/stem combined with them should be excluded from coding.

I think Nakayama was being somewhat imprecise in his (unfortunately quite brief) discussion of the Definite suffix. While he does explicitly talk about “nominalization” using the Definite suffix, he doesn’t explicitly call it a nominalizer, or label it as such. I *think* what he intended is that the Definite suffix is an inflectional marker which incidentally indicates that the word is a referent, similar to the way that person marking in Nuuchahnulth is inflectional yet nonetheless unambiguously indicates that the word is a predicate (with a few exceptions noted in the dissertation and Nakayama’s grammar). The examples in his grammar do indeed make the Definite suffix seem derivational; however, what he doesn’t illustrate explicitly in the grammar is the fact that the majority of the uses of the Definite suffix in the corpus appear with typical referents. In one text (Bluejay), the Definite suffix appears with the following stems: ‘mother’, ‘child’ (x3), ‘say’, ‘flies up’, ‘water/river’, ‘bluejay’ (so, ‘the bluejay’) in addition to ‘become a bluejay’ (so, ‘the one who became a bluejay’), ‘tree’, ‘young boy’ (x3). Only three of these thirteen instances occur with predicative meanings. So Nakayama presented the exotic case without presenting the more typical case. Given this distribution of the Definite suffix, I don’t think there’s a strong case for calling it a nominalizer per se.

Having said that, I didn’t make this argument in the dissertation, and I should have. So I’ve added the above discussion to the presentation of the Definite suffix (after example (47)).

The same argument does not hold for the Relative or Indefinite suffixes. These seem straightforwardly derivational (or at the very least, they are cases of overt structural coding for discourse function). Including these in the analysis was a blatant oversight on my part. I’ve corrected the places where these occurred by removing them from the analysis (223 instances of the Relative, and 184 instances of the Indefinite).

A last general question: why are ‘ “adverbials” (that is, predicate modifiers)’ (p. 111) coded in Nuuchahnulth (as pred), but excluded in English (p. 103)? Please add a sentence explaining your decision.

The phrasing here was an unintentional slip. Nuuchahnulth does not have any predicate modifier constructions that I am aware. Meanings conveyed by predicate modifiers in other languages are conveyed with predicates or serialized verbs in Nuuchahnulth. Both Nakayama and I treat these putative ‘adverbials’ as predicates. I’ve adjusted the wording in the passage you referenced to be clearer about this.

**Nuuchahnulth Sample**

Individual issues have either been addressed in the general issues above, or in the comments within the text itself. There are just two additional specific points:

not - grammatical element, exclude (we discussed this at length; please briefly give your justification for including it in Nuuchahnulth but not in English);

I see negation in Nuuchahnulth as analogous to lexical aspect: in some languages, aspect is coded with highly-grammaticalized affixes/constructions, while in others aspect is lexical. And of course the same language can exhibit both behaviors (e.g. Chitimacha for lexical vs. grammatical negation). I think my primary reason for the analysis of negation in Nuuchahnulth as lexical rather than grammatical is an absence of evidence for grammaticalization, and more generally an absence of any behavioral differences between negative predicates and other lexical complement-taking predicates, as far as I am aware. I clarify this stance at the end of my presentation of the coding decisions for Nuuchahnulth.

why isn’t [Chinook-belonging.to] either a mod or part of a complex ref?

Looking at this again, I think this is one of the rare clauses with two referents, something like ‘the language is from Chinook’. I don’t think it’s part of a complex referent because the modifier ‘Chinook’ would need to precede its referent ‘language’. I’ve updated the analysis here.

**Unanalyzed Words**

The committee recognizes that technically, one should also justify the choice not to code the remaining words. It is not clear how easy that would be, that is, if there are just a few reasons you would need to give, and list the noncoded words after each relevant reason.

I addressed this as a very brief note after each of the sample passages, rather than at the level of the individual token.

**Other changes**

The first two are really essential in my opinion. The third is highly desirable if possible in the short time available.

**(1) Tables 4.6 and 4.7**

‘Why is it that similar property words are so rigid in English yet so polyfunctional in Nuuchahnulth?’ (p. 162)

In part, it is because only 3 of the 13 words in Table 4.7 are properties, unlike Table 4.6; and those three words (‘big’, ‘aged’, ‘old’) are 3 of the 4 lowest-ranked words in that list (i.e. are less functionally diverse/polyfunctional). Please either note that only these three words are property concept words, or remove the non-property concept words from Table 4.7 and adjust the discussion in the text accordingly.

I’ve removed that question and no longer attempt to draw that particular comparison between English and Nuuchahnulth. I also updated the table for Nuuchahnulth, separating property words from quantity words. The relevant discussion in that section has now been updated to clarify that for Nuuchahnulth I am discussing both property words and quantity words. I also made minor updates to the prose in Chs. 1 and 5 where I summarize these findings.

**(2) Typological markedness theory**

‘The marked member of a category may be literally marked with an affix or other overt morphological indicator, but this is just one of the ways an item can be a marked member of a category. The marked member of a category may also be less frequent, or have a smaller range of inflectional / distributional possibilities, *or show a semantic shift in the direction of the word’s prototypical function*’ (p. 72)

This is NOT part of typological markedness theory. Only how concepts are encoded formally is part of typological markedness theory. Concept identity is fixed in this approach. The generalization about semantic shift/extension in parts of speech in my 1991 book that you cite is an empirical observation about patterns of semantic shift, not definitional of typological markedness. Please remove the italicized part of this paragraph.

Okay, this was a distinction I hadn’t quite grasped yet. Thanks for clarifying this. I’ve removed that sentence. I also fixed my characterization of the relationship between semantic shift and typological markedness theory in Section 2.4, immediately preceding the block quote, “If there is a semantic shift in zero coding of an occurrence of a word…”

**(3) Triangle plots**

It would be helpful to have 3D versions of the triangle plots, in order to disentangle (near-)monofunctionality separately for reference, predication and modification. I don’t know how easy this would be to do quickly.

Based on our email exchange, what is particularly needed here is a way to visualize how much monofunctionality is due to each of the functions of reference, predication, and modification. I had to resort to the simple (albeit extremely clear) solution you suggested of indicating the number of monofunctional cases for each sample.