

Synchrony and diachrony of verb clusters in Pennsylvania Dutch^{*}

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This paper presents the major synchronic facts about verb clusters in modern Pennsylvania Dutch (Pennsylvania German) and indicates how they have developed historically. Although Pennsylvania Dutch is descended from primarily Palatine German dialects, the behavior of verb clusters in the modern language is distinct from what is found in European German dialects. Focusing on three- and four-verb clusters in subordinate clauses, it is observed that Pennsylvania Dutch observes a strict rule whereby a maximum of one lexical verb may occur within a clause; additional lexical verbs are located to the right of the clause periphery. The analysis presumes that non-lexical verbs in verb clusters, specifically the finite auxiliary *hawwe* 'have' and a non-finite modal, form a single syntactic unit.

1. Introduction

One of the most vexing problems of the syntax of modern Continental West Germanic (Dutch, Frisian, German, and Luxembourgish) dialects is the analysis of what are known as *verb clusters*, that is, structures consisting of a finite verb with at least one,

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Although both these constructions involve a finite verb and two nonfinite elements, the structures underlying them differ, specifically as regards the structural position of the linearly final verb form in each. In (2), the infinitive to the immediate right of the finite verb, *kenne*, is the complement of the finite verb *hab*. In (3), on the other hand, the infinitive *schwetze* is the complement of the past participle *gheert*, so the adjacency of *hab* and *schwetze* is coincidental. That the two sentence-final infinitives in (2) and (3) occupy different structural positions is underscored by the fact that no word may intervene between the finite verb and its complement to the right, as in (2), whereas that is not the case for structures like (3). Consider (4), in which the finite verb is followed by the simple O–V constituent, *Deitsch schwetze* ‘to speak Pennsylvania Dutch’.

- (4) Sie hen gwisst, as ich sie gheert hab
 they have known that I them heard have
 Deitsch schwetze
 Pennsylvania-Dutch speak
 ‘They knew that I heard them speaking Pennsylvania Dutch’

Key to understanding the structural difference between 3-1-2 and 2-1-3 clusters in Pennsylvania Dutch is the recognition that this language, like most spoken varieties of German, makes productive use of the so-called post-field (*Nachfeld*), that is, the syntactic “space” located beyond the rightmost clause periphery (*rechte Klammer* ‘right bracket’), thereby minimizing the number of elements that may appear in the clause proper, that is, the inner field (*Mittelfeld*) and the right bracket.⁴ Essentially, the modern Pennsylvania Dutch inner field contains only arguments (including subjects, objects, and a limited number of prepositional phrases that are verbal complements) and negation; other elements, including non-argument adverbials (especially PP-ad adjuncts) and some PP- and all non-PP complements (e.g. infinitival phrases, subordinate clauses), must be located in the post-field. Consider the brief text in (5), from the introduction to a book of children’s Bible stories written in Pennsylvania Dutch (Vella Deitsh 1997: 7). The right periphery of each clause is marked with ‘|’.

4. The descriptive “topography” of the German clause is characterized by a verbal or clausal frame (*Verbalklammer*, *Satzklammer*) that defines the following structure: prefield (*Vorfeld*) – left bracket (*linke Klammer*) – inner field (*Mittelfeld*) – right bracket (*rechte Klammer*) – post-field (*Nachfeld*). In terms of X-bar phrase structure, the prefield is [Spec, CP] and the left bracket is [C, CP]. The right bracket consists of two verbal head positions, [V, VP] and [T, TP], in that order. The inner field contains all non-verbal elements between the left and right brackets. In main clauses the finite verb is located in the left bracket ([C, CP]), while in subordinate clauses it is in [T, TP], which marks the right periphery of the clause. The post-field begins immediately after [T, TP].

- (5) Kinner gleiche | Sctories glese hawwe | zu sie.
 children like stories read have to them
 Die Sctories sin vun die Biwwel |
 these stories are from the Bible
 un waare gschriwwe | bei etliche Leit vun die Gegend.
 and were written by several people from the area
 Mir wisse | as unser Schprooch net gleiche is | iwwerall
 we know that our language not same is everywhere
 in alli Heemet.
 in each home
 Dir sollet frei sei | fer eier eegni Wadde neiduh,
 you (pl) should free be to your own words insert
 so wie dir wellet |
 as like you want
 un die Kinner aa noch meh verzeele | weech die Sctories.
 and the children also yet more tell about the stories
 ‘Children like to have stories read to them. These stories are from the Bible and
 were written by several people from the area. We know that our language is not
 the same everywhere and in every home. You should feel free to insert your own
 words as you please and to tell the children more about the stories.’

Returning to sentences (3) and (4), we can reasonably argue that the infinitive *schwetze* ‘talk, speak’ is located to the right of the clause periphery:⁵

- (3') Sie hen gwisst | as ich sie gheert hab | schwetze
 (4') Sie hen gwisst | as ich sie gheert hab | Deitsch schwetze

Other examples of clauses with postposed infinitivals are given in (6)–(8):

- (6) ...as sie gange sin | (Balle) schpiele
 that they gone are ball play
 ‘that they went to play (ball)’
 (7) ...as ich en gholfe hab | (Gscha) wesche
 that I him helped have dishes wash
 ‘that I helped him wash (the dishes)’

5. Note that a subordinate clause in Pennsylvania Dutch (and German) that follows the main clause to which it is semantically “subordinate” is strictly speaking right-adjacent to the main clause and not embedded within it, as is the case with *as ich sie gheert hab* ‘that I heard them’ vis-à-vis *sie hen gwisst* ‘they knew’. Hence the terms “subordinate” and “embedded” with respect to clause types are not synonymous.

To be sure, it is not possible to go so far as to argue that *hab* and *welle* (and other forms of *hawwe* ‘have’ and modals) comprise a single morphological word, since they occur discontinuously in main clauses, as in (16).

- (16) Ich hab gehe welle schwimme
‘I wanted to go swimming’

On the other hand, semantics supports the assumption that *hab* and *welle* occupy two branches under a single, functional verbal syntactic node, cf. the German and English one-word translations of these two Pennsylvania Dutch words, namely *wollte* and *wanted*. Further, there is an interesting morphosyntactic behavioral property of [*hawwe* + modal] that suggests an affinity between the two elements. When the auxiliary *hawwe* is inflected for the subjunctive mood, the stem of the modal infinitive is homophonous with the present subjunctive stem for that modal. Cf. examples for *welle* in (17).

- (17) a. Mir welle gehe
we want go
‘We want to go’
b. Mir hen gehe welle
we have go want
‘We wanted to go’
c. Mir wedde gehe
we would-want go
‘We would want to go’
d. Mir hedde gehe wedde
we would-have go would-want
‘We would have wanted to go’

This phenomenon of subjunctive mood being marked on both the finite auxiliary and modal infinitive applies to all modals in Pennsylvania Dutch, not just *welle*, as shown in (18).

- (18) mir dafe ≈ mir deifde; mir hen dafe ≈ mir hedde deifde
‘we are/would be permitted to; we were/would have been permitted to’
mir kenne ≈ mir kennde; mir hen kenne ≈ mir hedde kennde
‘we are/would be able to; we were/would have been able to’
mir misse ≈ mir missde; mir hen misse ≈ mir hedde missde
‘we have/would have to; we had/would have had to’
mir solle/selle ≈ mir sedde; mir hen solle/selle ≈ mir hedde sedde
‘we are/would be supposed to; we were/would have been supposed to’

This use of “subjunctive modals” is the norm in modern Lancaster and Midwestern sectarian Pennsylvania Dutch, however it is not attested in older varieties of the

language, suggesting that it might be a relatively recent innovation. Regardless of the antiquity of this phenomenon, it does lend morphological support for the existence of a syntactic unit [*hawwe*_{FIN} + IPP].⁸

Let us now consider our analysis of the apparent 3-1-2-4 cluster in (15') as a 2-1 | 3 structure, given again here, in light of the preliminary rule formulated above, also repeated below.

(15')	Sie	hen	gwisst,	as	ich	gehe	[hab	welle]		schwimme
						3	1	2		4
						2		1		3

Preliminary verb cluster rule: Verbal complements containing an infinitive in Pennsylvania Dutch must be located to the right of the clause periphery.

If we analyze *gehe* as the complement of *welle* or [*hab welle*], then this rule must be modified. Since all verb forms in subordinate clauses in Continental West Germanic dialects are located in the clausal right bracket, the following generalization, based on the difference between lexical and non-lexical verbs (i.e. auxiliaries and modals), captures the facts of verb clusters in modern Pennsylvania Dutch most accurately:

Verb cluster rule: The right bracket in a Pennsylvania Dutch clause may contain no more than one lexical verb; additional lexical verbs must occur to the right of the clause periphery.

3. Verb clusters in earlier Pennsylvania Dutch

We turn now to the historical development of verb clusters in Pennsylvania Dutch. The earliest, most thorough description of Pennsylvania Dutch syntax in general is contained in the doctoral dissertation of J. William Frey (Frey 1941). Included in this description is an extensive discussion of verb clusters in main and subordinate clauses. Though based on his native dialect from eastern York County, Pennsylvania, Frey's observations about Pennsylvania Dutch syntax are in line with what we know from prose texts produced by native speakers from across the Pennsylvania Dutch-speaking area and dating as far back as the middle of the 19th century. In what follows we

8. Jürg Fleischer (p.c.) has brought to my attention references to apparently similar "subjunctive modal infinitives" in European German dialects, namely in Moselle Franconian (Labouvie 1938: 105) and Lower Alemannic (Noth 1993: 330). Göz Kaufmann (p.c.) has documented the phenomenon in the (originally Rhenish-Palatine) Hunsrückisch spoken in southern Brazil. Pennsylvania Dutch, however, is not directly descended from input dialects from any of these areas, which suggests that these similarities are due to parallel development.

Table 1. Three-verb clusters in earlier and modern Pennsylvania Dutch

Earlier PD		Modern PD
<u>Modals:</u>		
3-1-2 (INF – V – IPP) <i>kumme hot kenne</i>	=	3-1-2 (INF – V – IPP) <i>kumme hot kenne</i>
3-1-2 (INF – V – IPP) <i>kumme hot brauche</i>	>	2-1 3 (PTC – V INF) <i>gebraucht hot kumme</i>
3-1-2 (PTC – V _{MOD} – IPP) <i>gfangen soll hawwe</i>	>	3-2-1 (PTC – INF – V _{MOD}) <i>gfangen hawwe soll</i>
<u>Causatives:</u>		
3-1-2 (INF – V – IPP) <i>geh hot losse</i> <i>schreiwe hot mache</i>	>	3-2-1 (INF – PTC – V) <i>geh glosst hot</i> <i>schreiwe gmacht hot</i> 2-1 3 (PTC – V INF) <i>glosst hot geh</i> <i>gmacht hot schreiwe</i>
<u>Auxiliaries:</u>		
3-1-2 (PTC – V – PTC) <i>geduh hot ghatt</i> <i>gange is gwest</i> <i>ausgepaecht hot grigt</i> <i>gmacht is warre</i> ⁹	>	3-2-1 (PTC – PTC – V) <i>geduh ghadde hot</i> <i>gange gwest is</i> <i>ausgepaecht grigt hot</i> <i>gmacht warre is</i>

Recalling the verb cluster rule formulated in Section 2, no more than one lexical verb may be located in the right bracket of a clause in modern Pennsylvania Dutch: additional verbal complements must be postposed, yielding 2-1 | 3 structures. We also note that the formerly modal verb *brauche* has been reanalyzed as a lexical verb, hence its participation in the 2-1 | 3 pattern. Finally, it is clear that 1-2 inversion in subordinate clauses in the modern language of the *hab welle* type is limited exclusively to modals (the only class of non-lexical verbs that may appear in IPP constructions): non-modal auxiliaries in both their historical IPP (e.g. *hawwe*, *losse*, and *mache*) and participial forms (e.g. *ghatt*, *gwest*, *grigt*, and *warre*) may no longer occur in 1-2 inverted structures.

Finally, we note that the historical 2-1 | 3 pattern with verbs of perception and *helfe* is maintained in modern Pennsylvania Dutch, the only difference being that causatives, as non-modals, may no longer take an IPP form in the perfect.

9. We recall here that Frey (1941: 235; see Ex. [30] above) mentions that a minority of his consultants also produced 3-2-1 clusters with *warre*, suggesting that the change to the modern pattern was already underway at the time of his study.

Table 2. 2-1 | 3 structures in earlier and modern Pennsylvania Dutch

Earlier PD		Modern PD
<i>sehne, heere, helfe:</i>		
2-1 3 (INF/PTC – V INF)	>	2-1 3 (PTC – V INF)
<i>heere/gheert hot singe</i>		<i>gheert hot singe</i>
<i>sehne/gsehne hot kumme</i>		<i>gsehne hot kumme</i>
<i>helfe/gholfe hot schaffe</i>		<i>gholfe hot schaffe</i>

4. Discussion

The major observation that emerges from a consideration of the synchrony and diachrony of three-verb clusters in Pennsylvania Dutch subordinate clauses is that the number of verbs that occur in 3-1-2 clusters has decreased since the 1930s and 1940s, when J. William Frey conducted his fieldwork. Whereas non-finite forms (both infinitives and past participles) of apparently all non-lexical verbs (modals, auxiliaries, and perception verbs) could invert with the finite verbs that dominated them (finite forms of the perfect auxiliaries *hawwe* and *sei*, as well as finite modals, e.g. as in Ex. [21]), today only modal verbs may do so (with a finite form of *hawwe*). Further, these modal verbs only ever appear as infinitives in the perfect tense, even when used lexically, and are today the only verbs that show the IPP effect. The reanalysis of formerly 3-1-2 clusters under the constraint of the modern verb cluster rule formulated in Section 2 has led to the expansion of 3-2-1 and 2-1 | 3 structures.

We recall, however, that in order to account for apparent 3-1-2-4 structures such as (15), we need to assume that the finite form of *hawwe* and its modal IPP complement form a structural unit [*hawwe*_{FIN} + IPP]. Following this assumption, there are in essence no “four-verb clusters” in Pennsylvania Dutch; 3-1-2-4 orders are in fact 2-1 | 3 structures.

- (15) Sie hen gwisst, as ich gehe hab welle | schwimme
- | | | | |
|---|---|-------|---|
| | 3 | [1 2] | 4 |
| ⇒ | 2 | 1 | 3 |

That means, then, that 3-1-2 clusters (e.g. *gehe hab welle*) are themselves really just 2-1 structures, as discussed earlier. The system that reveals itself is thus a simple one for modern Pennsylvania Dutch verb clusters in subordinate clauses: the underlying 2-1 order is preserved in all surface orders, and if the number of lexical verbs within the clause exceeds one, then the most deeply embedded infinitive (“3”) is extraposed.

Table 3. Two- and three-verb clusters and 2-1 | 3 structures in modern Pennsylvania Dutch

2-1	PTC + V _{AUX}	... <i>gange bin</i>
		... <i>gheert hab</i>
	INF + V _{MOD}	... <i>gehe will</i>
3-2-1	INF + [V _{AUX} + IPP]	... <i>gehe hab welle</i>
	PTC – INF – V _{MOD}	... <i>gfange hawwe soll</i>
	INF – PTC – V _{AUX}	... <i>geh glosst hot</i>
2-1 3	PTC – PTC – V _{AUX}	... <i>geduh ghadde hot</i>
	PTC – V _{AUX} INF	... <i>gebraucht hot kumme</i>
		... <i>glosst hot geh</i>
		... <i>gheert hot singe</i>

As mentioned at the outset of this paper, the main goal here has been a documentary one, that is, to give a thorough description of the Pennsylvania Dutch data from both synchronic and diachronic perspectives. A future task is to consider the theoretical implications of these data in the context of the larger discussion about verb clusters in Continental West Germanic. In particular, the most radical claim here is that the finite form of *hawwe* and its modal IPP complement form a syntactic, if not a morphological unit of structure. While it may be possible to derive 3-1-2 orders via movement or reanalysis (cf. the theoretical discussion going back at least to Haegeman & van Riemsdijk 1986), 3-1-2-4 structures remain a problem. The elegance of a solution based on a unit [*hawwe*_{FIN} + IPP], which is supported by the fact that these two lexical items only ever occur in “inverted” (apparent 1-2) order in subordinate clauses, as well as by the behavioral phenomenon related to subjunctive inflection, is compelling. It remains to be seen, however, whether there are parallels in closely related European German dialects.¹⁰ In any case, the analysis here should be evaluated against the backdrop of the larger generative theoretical discussion on verb clusters.

Additional tasks for future work include a closer look at both the historical record of Pennsylvania Dutch, as well as at what is perhaps a change in progress in verb clusters among younger sectarian speakers. Regarding older data, it will be important to compare Frey’s data from adult speakers who were living in the 1930s and 1940s with evidence from speakers from earlier generations. Quite fortunately, we have hundreds of Pennsylvania Dutch prose and poetic texts produced by native speakers as far back

10. My own suspicion is that the micro-level phenomena described here are probably unique to Pennsylvania Dutch, or at the very least not the result of inheritance from Palatine German source dialects. It seems unlikely that the many 1-2 structures in earlier Pennsylvania Dutch, which almost certainly would have also been found in Palatine dialects, all took the syntactic form [1 + 2].

for emphasis. This would mean that the 1 ... 2-3 order in such sentences would be represented more accurately as 1 ... 2 | 3. To be sure, this extraposition of the lexical verb is not mandatory according to the modern verb cluster rule, since there is only one lexical verb in the clause (“3” in [40] *sehne* ‘to see’), yet it may well be that the grammar allows for optional extraposition for pragmatic reasons. Likewise, since the main clause 1 ... 2 | 3 order is analogous to the 2-1 | 3 order in subordinate clauses (albeit with non-IPP constructions), the diachronic trend toward increasing productivity of the latter structure might suggest an eventual reanalysis of 3-1-2 clusters in subordinate clauses. Such a reanalysis is purely speculative at this point, in the absence of further data.

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