$0_{
m I}$ am grateful to the participants at BLS for their several comments and suggestions, in particular, Charles Fillmore, Knud Lambrecht, Randy LaPolla, Yoshiko Matsumoto, and Seiko Yamaguchi. I would also like to thank Yo Matsumoto, P. J. Mistry and Linda Thomburg for their comments.

wa construction) to refer to the verb or adjective stem form plus tense. the ni construction) to refer to the stem form of a verb, and the term 'verbal' (in the kotoThe use of the terms 'verb' and 'verbal' here is at issue. I use the term 'verb' (in

-(r) are in the ni construction seems to differ depending on the verb. As the following examples indicate, the acceptability of the passive form

(i) a. ??Boku wa sensei 2

I was scolded by (my) teacher to an extreme extent. TM teacher by sikar-ini sikar-are-ta. scold scold Pass Past

I was scolded by (my) teacher to an extreme extent Boku wa sensei I TM teacher by E sikar-are-ni sikar-are-ta. scold Pass scold Pass Past

(II) a. Boku wa sensei ni I TM teacher by praise praise Pass Past home-ni home-rare-ta.

I was praised by (my) teacher to an externe extent. ?Boku wa sensei ni I was praised by (my) teacher to an extreme extent. TM teacher by praise Pass praise Pass Past home-rare-ni home-rare-ta.

compounds usually express aspectual meanings, and are close to auxiliary verbs (e.g. verbs. These compounds are semantically transparent: The second members in these tabe-owaru 'finish eating', tabe-hazimeru 'start eating'). 3Note that there are so-called syntactically formed, or productive, compound

and tomaru 'stop' (e.g., (i)); nor does it allow compound verbs containing the verb suru ⁴ For example, the *ni* construction rejects nondurative verbs, such as *tuku* 'arrive'

do' (e.g. (ii)).

(i) *Boku-tati wa tyoozyoo ni tuk-ini tui-ta TM summit reach reach Past

(ii) *Kinoo We reached the summit to an extreme extent. wa kaimono-si-ni kaımono-sı-ta.

Yesterday, (I) did shopping to an extreme extent. TM shopping-do shopping-do-Past

second verb in the koto wa construction by itself is not the comment, and also because the preceding discourse. Yet, it cannot be considered the topic of the sentence, because the 5As will be discussed later in this paper, it is true that the proposition in the clause' preceding the koto wa is often something that has been recognized in the whole sentence including the second verb is kind of an echo statement.

OI owe this observation to Knud Lambrecht.

7This point was brought to my attention by Yoshiko Matsumoto

References

Fillmore, Charles. 1985. Syntactic intrusions and the notion of grammatical

construction. BLS 11. 73-86.

Lambrecht, Knud. 1984. Formulaicity, frame semantics, and pragmatics in German Fillmore, Charles, Paul Kay, and Mary C. O'Connor. 1988. Regularity and idiomaticity binominal expressions. Lg. 60. 753-796 in grammatical constructions: The case of let alone. Lg. 64, 501-538

Copula Contraction And Absence In Barbadian English, Samaná English
And Vernacular Black English*

John R. Rickford and Renee Blake Stanford University

represented in casual speech data from six Barbadian speakers. some fundamental theoretical and methodological issues in the analysis of the copula in This paper examines copula contraction and deletion in mesolectal Caribbean English, as American vernacular varieties (McElhinny 1988, Rickford 1989, Rickford et al 1988). data to bear on such issues. Other papers we have written in recent years deal with American as well as Caribbean varieties of English, and to bring some new--and needed--This paper is part of a general attempt by our research group at Stanford to reopen

English copula comparable in sophistication and scope to those available for VBE. frequent in recent years, there are no quantitative, accountable descriptions of the Caribbean Although studies of the copula in Caribbean English have been available for some time now, and comparisons with Vernacular Black English (VBE) have become more

used one token of zero and ninety-nine tokens of <u>1z</u> before adjectives would be represented no differently (by a 1/3 entry in column 6, table 1) than a speaker whose distribution was the exact opposite (ninety-nine tokens of zero and one of <u>1z</u>). And while it is helpful to know how often such 1/3 patterns were manifested by different speakers, as against the categorical zero-only (1) or iz-only patterns (3), this is less informative than a full-fledged (1969) had provided. However, Bickerton's study was not quantitative. A speaker who brief characterizations of the basilectal creole copula which B. Bailey (1965) and Stewart by DeCamp (1971) and C.J. Bailey (1973), it was a significant advance on the useful but dialect. In these respects, and in its use of the dynamic/implicational framework pioneered To its credit, this study was corpus-based and accountable, in the sense of reporting all variant forms used by each speaker, rather than only those considered representative of the (see Pavone 1980) quantitative study. Another problem was the number of empty cells in Bickerton's study Table 1, for instance, is from Bickerton's (1973) study of the Guyanese copula

Holm's (1976, 1984) study of the copula in Jamaican and Gullah, although serving as a springboard for one of the most insightful discussions of the creole origins of VBE (see also Baugh 1979, Labov 1972), was also limited in several respects. It was Holm himself acknowledged (1984:303, n 3) to have been inappropriate: case of Jamaica, a single lower mesolectal speaker whose Nansi stories were included in based on secondary data from a small number of speakers recorded years earlier (in the LePage and DeCamp 1960) and it involved some analytical and counting decisions which

copula before noun phrases), while [wez] and [bin] simply mark anterior some naive assumptions which I held when this paper was first written. Not After having worked on Miskito Coast Creole ... I realize that table 1 reflects lumped together, [1z] should have been treated separately (as the equative all words corresponding to forms of standard English be should have been tense and have little to do with the copula beyond their etymology.

need to check the recodings and calculations before publishing them. In the meantime we source material and provided a preliminary recalculation of the statistics in table 2, but we Three Stanford students (Jennifer Knobel, Diana Loo and Michelle Robinson, as part of a class presentation in Linguistics 73, "Black English," 1987) have recoded the data from the will give one example, in the conclusion of this paper, of how dramatically the reanalysis However, no revised analysis of the Jamaican and Gullah data has yet appeared in print. Caribbean copula absence. process can affect Holm's data, which have been accepted as the standard of reference for

259

Finally, like virtually all other work on the Caribbean copula to date (Edwards 1980 and Escure 1981 are two other studies which we can only mention in passing here) Holm's study does not examine copula <u>contraction</u>, and its copula absence data (see table 2) are for following grammatical environment only. The advantage of a multivariate analysis, of the sort provided by the variable rule program (VARBRUL), is that the effects of other constraints, such as preceding grammatical and phonological environment, can be simultaneously examined (see Rickford 1990).²

These limitations in previous studies of the Caribbean copula are significant in their own right, and because they imperil comparisons with VBE. For instance, Poplack and Sankoff (1987) provide a quantitative, variable rule analysis of the English spoken in Samaná (Dominican Republic) which agrees in a number of respects with earlier analyses of American VBE but not with those of the Caribbean. From this, they conclude that Samaná English is closer to VBE and challenges the creole origins hypothesis, since Samaná English speakers are the descendants of African Americans who emigrated from Philadelphia, New York and New Jersey in the 1820's, and their speech is assumed to be a lineal descendant if not equivalent of African American speech in the early 1800's. However, the Caribbean data which provide the basis for comparison are inadequate, as explained above.

similar to VBE, especially with regard to copula absence (Bickerton 1973, Escure 1981:2, present a VARBRUL analysis of copula contraction and absence in their speech. Our data series of recordings with some native speakers in Barbados a few years ago and now Morrow 1984, Rickford 1989). other grammatical features, such as mesolectal habitual doz, are very common there (see the English vemaculars of other Caribbean territories. Although some creole grammatical variety which is commonly cited) shares many creole phonological and lexical features with whether Barbadian English is not atypical of the Caribbean (see Hancock 1980, Cassidy the history of VBE (see Rickford 1974). Anticipating the query some might raise of Holm 1984:303), and the kind which is therefore most profitable for attempts to reconstruct terms of sample size (theirs: 494 full, contracted and deleted copula tokens, ours: 522) and base is very similar to the one used by Poplack and Sankoff (ibid) for Samaná both in features, such as basilectal habitual a, have not been attested in Barbados in modern times, purposes because its English vernacular is a mesolectal creole--the kind which is most number of speakers (theirs: 8, ours: 6). Barbados is an excellent data source for our 1980), note that the Barbadian English vernacular (as distinct from the normative Barbadian In order to provide a more comparable data base for Caribbean English, we made a

In this regard, it is significant that Barbadian--in common with the vernacular English of Guyana, Jamaica, Samaná and Trinidad, but not mainland US VBE--allows zero auxiliary and copula (for convenience we'll refer to both as "copulas") with first-person subjects, as in these two examples from Peter, a Barbadian fish-vendor:

I Ø gon be a Rasta.
 I Ø tekkin' off de heads.

This is of course consistent with a creole history in which gon, Verb+ing and adjective predicates (as stative verbs) occur without copulas in underlying structure (see Bickerton 1973, DeBose and Faraclas 1988:476), and in which variations in copula presence on the surface are plausibly treated as due to copula insertion rather than deletion. In any event, the frequency of sentences like (1) and (2) prompted us to follow Poplack and Sankoff (1987) in including all potential occurrences of am, is, and are in our analysis, discriminating between them through a person/number factor group. (There was little person/number non-agreement, except for occasional uses of is with plural and first person subjects.) Like them, and like other students of the copula, we discounted is tokens followed by words beginning with s, clause finals, and other invariant or indeterminate cases. Unlike them, however, we did NOT include reduced or full forms of it's, that's and what's in the count, for the same reason Labov (1969) and earlier scholars had excluded

them--the fact that they occur overwhelmingly as frozen, contracted forms.³ (It should be noted that 84% of the Samaná tokens of these forms (136/162) are contracted, and that they account for fully one third of the copula tokens (162/492, p. 304) in Poplack and Sankoff's analysis.)

Displayed in table 3 are the variable rule (VARBRUL) probabilities for the contraction and absence/deletion of am, is, and are in Barbados and Samaná. In order to make our analysis comparable to earlier analyses of Samaná by Poplack and Sankoff and of VBE by Labov and Baugh, we will present results for contraction and deletion as computed by Labov's method (see table 4), and we will generally ignore the effects of alternative computational methods (see Rickford et al 1988). However, we have analyzed our data according to each of the formulae in table 4, and at various points in this paper, we will comment on the differences, if any, that they make. (The theoretical motivation for the "Labov contraction" and "Labov deletion" formulae is that contraction is a necessary prerequisite to deletion; hence surface deletions should be included in the numerator for contraction, and full forms should be excluded for the denominator for deletion). Note to that in the logistic model used in this program, probabilities greater than .5 favor rule application; those less than .5 disfavor rule application; and those just about .5 have little or no effect. Parentheses denote results for factors that were not selected as significant by the regression analysis in the VARBRUL program.

CONTRACTION

contraction (.58), while preceding phonological environment, as an entire factor group, was thrown out as insignificant (note the square brackets around the probabilities for a preceding consonant and vowel in the Barbados contraction column, table 3). In future something of a mystery for twenty years.

Turning now to the other factor groups, note that in the PERSON-NUMBER syllables) in an attempt to unravel the explanation for the Pro/NP effect which has remained in JOE's here vs. the RAdio's here, both NPs, where capitalization indicates stressed since other pronouns, generally ending in consonants, remain somewhat favorable to pronoun effect for Labov contraction had exceeded the effect of a preceding Noun Phrase the strong effect of pronouns simply reflects the separate favoring effect of a preceding vowel that Labov (1972) had found. Even in Labov's data (ibid., 103, table 3.3) the although their factor groups don't correspond to ours exactly). 4 One reason for separating VBE and the results reported by Poplack and Sankoff for Samaná (as shown in table 3, disfavoring contraction. This effect matches the results reported by Labov and others for 3), we see a major effect exerted by the nature of the SUBJECT, with personal pronouns work, we plan to examine the effects of stress on contraction independently (for instance, vowel. But the independence of the two constraints is even clearer in our Barbados data, the personal pronouns from other pronouns (e.g. "this", "there", and "somebody") is that the personal pronouns now all end in stressed yowels, allowing us to determine whether (like "he" and "they") strongly favoring, and a full NP subject (e.g. "The man") strongly Looking first at the contraction results for Barbados (the first data column in table

factor group the Barbadian data agree with the Samaná data in showing <u>is</u> most favorable to contraction, and <u>are</u> least favorable, with <u>am</u> in between.⁵ The disfavoring effect of <u>are</u> on contraction may be due to the fact that true <u>are</u> contraction is normally blocked after consonants, which is not the case with <u>is</u>. (Compare "John's at home" with "The men're at home"; the copula in the latter, though reduced, never forms a single syllable with the noun.)

Continuing down column 1 of table 3, note that a FOLLOWING PHONOLOGICAL ENVIRONMENT was significant for contraction in Barbados but not in Samaná. The favoring effect of a following vowel in our data may relate to the preferred CV phonotactic environment which a following vowel creates, insofar as the copula consonant remaining after contraction can be reinterpreted as the onset of the following syllable, as illustrated in the following sentences:

(3) Joe zover the hill (CV#CVCV...), vs(4) Joe'z beside the hill (CVC CVC...)

Returning to table 3, note that the hierarchy of FOLLOWING GRAMMATICAL ENVIRONMENTS agrees with Labov's findings for the NYC Cobras and Jets, and Poplack and Sankoff's findings for Samaná The parallelism is especially striking for Barbados and Samaná, which both show <u>gonna</u> significantly ahead of <u>Verb+ing</u> (91 versus .55, and .90 versus .48 respectively) while the gap between these two environments in Labov's NYC data (Labov 1972:86-87) is much smaller (3 percentage points for the Jets, 4 percentage points for the Thunderbirds). One interesting point about this hierarchy, however, is that it is completely reversed when the data are computed by the "straight contraction" rather than the "Labov contraction" formula: A following NP becomes most favorable, and a following gonna least. This is because the "Labov contraction" hierarchy for following environment derives primarily from the high proportion of copula deletions or absences in the data; once these are removed, the hierarchy collapses. To our mind, this is as it should be; there are valid reasons for following grammatical environments to pattern as they do with respect to copula absence, in terms of prior creole grammatical categories (see Holm 1984:298); but no explanation has yet been proposed for their having a similar effect effect on copula contraction.

If we now turn our attention to the SPEAKER factor group at the bottom of table 3, we see that this factor group was thrown out as insignificant for contraction in the Samaná data. However, Poplack and Sankoff did find a significant speaker effect for copula deletion (see the far right column), leading them to observe (p. 308) that "as expected, it is the process of deletion which has social significance in the community, in

contrast with contraction."

However, if we look at the Barbados data, we see that the expectation that contraction would have no external or inter-speaker significance is not sustained. The speaker factor group was significant both for contraction AND deletion, with individual speaker values varying quite significantly in each case. Furthermore, significant effects are obtained for this factor group regardless of the contraction formula used. Now, can we say anything more about this external factor group beyond the fact that individuals vary? There isn't any obvious effect of gender (Mary, the only woman, has VARBRUL results which are almost identical to Peter's), race (Daniel, the only white speaker, is comparable to Mac, a black speaker), nor social class and age (most of our speakers are in their twenties and thirties and clearly working class). The single biggest effect seems, in fact, to be the stylistic level each speaker adopted in the interview, itself a function of various contextual factors, including his or her relation with the interviewer and other interlocutors (Bell 1984). This can be illustrated most dramatically with the example of Cricketman, the captain of a local cricket team, who was fortuitously interviewed while watching a cricket match. Cricketman varied so dramatically in his speech to the interviewer rersus his speech to his teammates that we've identified him as Cricketman I and Cricketman 2 in the transcript which follows, and also in the analysis (see table 3). He really behaved like two different people in each persona:

(5) From an interview in August 1987. (Cricketman 1= dialogue with interviewer, Renee Blake; Cricketman 2=dialogue with peers; countable instances of copula in his speech are underlined.)

Cricketman 1: Because right now you <u>are</u> in de northem part of de island--St. James, St. Peters, St. Vincent--St. Andrews, St. Thomas. Now some of dese guys <u>are</u> from de southern side which would be St. Michael--the batting side--most guys will be, Christ's Church. You play on a sort of--you know, but de guys <u>are</u> interzonal. Ya understand? Interviewer: Right, right. You're from where? St. James?

impressionistic claims for Caribbean varieties made by earlier researchers. Note too, that these results are robust, unaffected by the computational formula used.

The deletion results for the FOLLOWING GRAMMATICAL factor group are also robust. Here the hierarchy is clearly Gonna, Verb+ing, Loc., Adj., and NP (way behind) regardless of the method we use. The inexplicable, only slightly disfavoring effect of NP which Poplack and Sankoff had found is not replicated in our data, but our Locatives are ahead of Adjectives, as in their data, and in Labov's Jets data. Interestingly enough, the 'high Adj.' (over Loc) pattern which Baugh found for deletion in Labov's data for the Cobras and in his own Los Angeles data was not replicated.

For the sake of comparability, Figure 1 displays relative frequencies (not probabilities) for copula absence (computed as "straight deletion") in the Barbados and Samaná data sets, and in the NYC Jets and Jamaican data analyzed by Labov (1972:86) and Holm (1984:86) respectively. The NYC Jets and Barbados patterns are parallel throughout the range, except that the Barbados data show a bigger NP vs. Adj effect, comparable to that which obtains in the Jamaican data. (Adjectives, of course, are really a subcategory of verb in creole grammar, and require no copula, while noun phrases are quintessential statives and almost always require a copula, whether creole or Englishderived.) The Samaná data resemble both the Barbados and NYC Jets data in the relative ordering of the various environments, although the absolute frequencies are lower.

Beyond the initial similarity of their NP vs Adj effect, Jamaican and Barbados diverge sharply, but we have reason to suspect that this divergence is more apparent then real, a function of the fact that Holm's Jamaican figures include percentages for basilectal croole markers (like preverbal de) which are excluded from serious alternation with a fine inflected copula once a certain level of the continuum is reached. In the Verb+ing case, for instance, only and inflected is or are can occur in equivalent syntactic slots; basilectal de and a cannot co-occur with Verb+ing (*"dem de waakin"), but only with Verb ("dem de go"), and therefore tokens with these variants should not be considered along with the others. However, 82% of the variants in Holm's preverbal subcategory for Jamaican (see table 2) come from de and a; if these are removed, leaving only tokens of inflected be and similar categorization or computation error probably account for the low gonna figure which Holm (ibid.) reports for Jamaica (32%, p. 293), possibly a failure to separate gonna (derived from goin' to and therefore capable of showing variation with and be) from go. As Holm himself observes (ibid., p.298), go is a preverbal irrealis or future tense marker which was never preceded by any copula-like particle in the creole. (Even in UBC, we have found, following a suggestion of Raina Jackson's, that gon as in "He gon tell," shows a higher proportion of copula absence than gonna, as in "He's gonna tell.") Although we haven't completed all the necessary reanalyses and recalculations of DeCamp's Jamaican data originally examined by Holm, we expect them to show copula absence figures for gon as high as in our Barbados data and in line with the other data sets. In short, we expect the parallelism between the four data sets of figure 1 to be even stronger.

SUMMARY AND CONCLUSION

In this paper, drawing on recently collected Barbadian data, we have provided the first data-based discussion of copula contraction in Caribbean English, and the first quantitative, VARBRUL analysis of copula contraction and absence in a Caribbean English variety other than Samaná. The results are interesting in their own right, but are especially significant for the challenges they offer to the conclusions of Poplack and Sankoff (1987) that copula contraction and absence in Samaná and VBE are similar, and different from the creole or Caribbean patterns established by Holm (1984).

For contraction, as computed by Labov's formula (see table 4), we note a number of striking parallels between Barbadian, Samaná and VBE, especially with regard to the effect of the grammatical subject, the copula form in question (am vs is vs are), and the following grammatical environment. Thus, the contraction similarities which Poplack and

Cricketman 1: Yeah, yeah....

Cricketman 2: Hit de ball through de fielders, man! Marpuh, wha yuh @ doin'?

question of--de battin' side has a hundred and something runs to knock off, so it's not--de Interviewer: Who's winning now? Cricketman 1: Well--i'--i'-i' i' still--de game is not at a stage of winning (?). It's a game is not at a stage.

Interviewer: Oh. I see what you're saying.

Cricketman 2: Go on Marpuh! Daz a straight ball! Daz a straight ball! Man, he 2 out Daz a straight ball! Dat ball ain't turn nowhere! He @ out!

level of intimacy that strangers would not. By contrast, Mac, who was more formal closest "homegirl" relationship beforehand, enabling her to discuss various topics at a probabilities were Peter and Mary. Peter was interviewed by John, a fellow West Indian and carried out "standard sociolinguistic checks for detecting more vernaçular styles," they contraction count according to Labov's formula (table 4). Overall, Cricketman's contraction probabilities vary from .22 to .80 in the two modes, and his deletion values from .14 to tokens of contracted it's and daz which were treated as "Don't Count" [DC] forms for the reasons given earlier), five occur in the speech of Cricketman speaking to the interviewerthroughout this interview with Renee, had much lower contraction and deletion rates. Caribbean topics, and Mary was the interviewee with whom Renee had established the After Cricketman 2, the two Barbadians with the highest contraction and deletion high and low figures for contraction and deletion in our data seem to correlate most clearly with the degree of rapport which was established between the interviewer and interviewee. may not have fully estimated the potential size of the interlocutor effect. 6 In general, the .88. (Comparable differences remain even with other contraction and deletion formulae.) Although Poplack and Sankoff were sensitive to possible interviewer and stylistic effects Cricketman yelling onto the field--and these are all zeroes or deletions, contributing to the and they are all full forms (is, are), while three occur in the context of the animated and Creole speaker, with whom he was able to converse as an insider on numerous Of the eight potential copula tokens which occur in this extract (there are also five

ABSENCE/DELETION

for copula absence or deletion diverge from previous work in several respects. Although the contraction results for Barbados converge with previous work on VBE and Samana more than the existing literature might have led us to expect, our results

is an extension and generalization of contraction." Note, however, that the Samaná data arguing for Barbados what Poplack and Sankoff (ibid., 299) do for Samaná: that "deletion reversed, with NP now significantly favoring (.84) and personal pronouns disfavoring (.19). This is clearly different from what Labov had found for VBE, and prevents us from deletion-that it may be essentially irrelevant. respectively), suggesting, overall, that there is no stable effect of this factor group on along) followed by phonologically conditioned contraction. However, the strong NP_favoring effect in the Barbadian data disappears when you use "straight deletion" instead of "Labov deletion" (Other Pro becomes .59, and Personal Pronoun and NP .46 and .45"). generally, is not phonologically constrained at all, but rather should be conceived of as grammatically conditioned copula insertion (as many creolists have insisted all perhaps that copula absence in these two communities, if not in the Caribbean more the favoring effect which personal pronouns had shown for contraction is completely also show a strong NP_ favoring effect. It may be that whatever phonological, stress-favoring effect personal pronouns provide for contraction is lost at the level of deletion; and In the SUBJECT factor group (see the Deletion column for Barbados in table 3),

for person and preceding phonological environment, but in accord with the impressionistic ENVIRONMENT, AND FOLLOWING PHONOLOGICAL ENVIRONMENT fail to show any significant effects for the Barbados data. This is contrary to the Samana results The deletion statistics for PERSON, PRECEDING PHONOLOGICAL

> hypothesis for VBE. Sankoff (ibid) demonstrate between Samaná and VBE do not simply line them up on one side, typologically and diachronically, with Caribbean creole vernaculars on the other. to both of these better-documented varieties, providing no opposition to the creole origins Now that contraction data on one Caribbean variety are available, they turn out to be similar

show high rates of copula absence before adjectives but not Verb+ing or gonna (the so-called "high adj" pattern). As we have shown by reanalyzing Holm's copula absence same time, Barbados, Samaná and VBE are all fairly similar in terms of the relative effect With respect to copula absence or deletion, Barbadian and Samaná English, in common with other Caribbean vernaculars, both allow for the possibility of zero where standard English and VBE would require full or contracted <u>am</u> (the contracted form is than they really are. figures for Jamaica, this stereotype may derive from inappropriate counting decisions which make a following Verb+ing or gonna seem much less favorable to copula absence which have developed with respect to this issue: for instance, that Caribbean vernaculars of following grammatical environment on copula absence, challenging the stereotypes from that of the creole vernaculars as we might otherwise have believed it to be. At the virtually categorical in VBE). In short, Samaná English copula absence is not as different

territories--remain to be done; we have started on the process, along with others (like Winford 1989). This paper should help to indicate the potential value of such analyses, both for understanding Caribbean vernaculars themselves and for pursuing the decades-old Caribbean varieties--drawing on original data sets from Jamaican, Guyanese and other Clearly, additional quantitative and VARBRUL analyses of copula variation in

controversy about the roots of American VBE.

Montreal at Quebec *An earlier version of this paper was presented in 1988 at the 17th Annual Conference on New Ways of Analyzing Variation in Language (NWAV 17) held at the University of

Holm (1984:303) might suggest: "In the mesolect, 'deleted' copula is found oftenest with 1. This is contrary to the impression which the quotation from Bickerton (1971:491) in gon (-Fut), not quite so often with -ing forms (Vb) ..."

constraints, its univariate analyses of the effect of preceding and following grammatical finalizing this paper-provides a new analysis of the Trinidadian copula which is data-based, accountable and quantitative. Although it does not employ the variable rule program or any similar multivariate procedure to estimate the individual effects of proposed Reduced forms of dat's occur most often as daz, not das, but some dat's and da also 2. Winford's (1989) conference paper--which we were fortunate enough to see just before

4. Poplack and Sankoff's study includes only a SUBJECT factor group, with CONTRACTION results for individual factors as follows: NP .08; I .45; he. she .93; it that, what .85; here, there, where .74; we, you, they .32; those, them, these, this .13. For DELETION, their corresponding results are: NP .81; I .06; he. she .28; it, that, what .06; here, there, where .53; we, you, they .90; those, them, these, this .43. These figures

probability figure is for he and she subjects only, while ours includes these subjects as well should clarify the correspondences between our results.

5. Poplack and Sankoff's data show a bigger are/ls difference than ours do, but their isas singular NPs.

(26%) may not be fully representative of vernacular Samaná (compare 19% for Cricketman I, to Renee). In any case, Cricketman's data remind us of the need for repeated recordings with varying interlocutors (see Labov 1972, Rickford 1987 and Winford 1972). 6. The relatively low frequency of copula deletion which they record for Samaná overall

REFERENCES

- Bailey, Beryl Loftman. 1965. Toward a new perspective in Negro English dialectology. American Speech 40(3): 171-77.
- Bailey, Charles-James. 1973. Variation and linguistic theory. Washington, D.C.: Center for Applied Linguistics.
- Baugh, John. 1979. Linguistic style-shifting in Black English. Ph.D. dissertation, University of Pennsylvania.
- . 1980. A re-examination of the Black English copula. Locating language in time and space, ed. by William Labov, 83-106. New York: Academic Press.
- Bell, Allan. 1984. Language style as audience design. Language 13: 145-204.
- Bickerton, Derek. 1971. Inherent variability and variable rules. Foundations of Language 7: 457-92.
- . 1973. On the nature of a creole continuum. Language 49: 640-69.
- Cassidy, Frederic G. 1980. The place of Gullah. American Speech 55:5-15.
- DeBose, Charles E., and Nicholas Faraclas. 1988. An Africanist approach to the linguistic study of Black English: Getting to the African roots of the tense/aspect/modality and copula systems in Afro-American. Paper presented at the International Round Table on Africanisms in Afro-American Language Varieties, University of Georgia, Athens.
- DeCamp, David. 1971. Toward a generative analysis of a post-creole continuum. Pidginization and creolization of languages, ed. by Dell Hymes, 349-70. Cambridge: Cambridge University Press.
- Edwards, Walter F. 1980. Varieties of English in Guyana: Some comparisons with BEV Linguistics 18: 289-309.
- Escure, Genevieve. 1981. Decreolization in a creole continuum: Belize. Historicity and Variation in Creole Studies, ed. by Amold Highfield and Albert Valdman, 27-39. Ann Arbor: Karoma.
- Hancock, Jan. 1980. Gullah and Barbadian: Origins and relationships. American Speech 55:17-55.
- Holm, John. 1976. Copula variability on the Afro-American continuum. Conference preprints, first annual meeting of the Society for Caribbean Linguistics Turkeyen, Guyana. Compiled by George Cave. Linguistics Section, Department of English, University of Guyana.
- . 1984. Variability of the copula in Black English and its creole kin. American Speech 59: 291-306.
- Labov, William. 1969. Contraction, deletion, and inherent variability of the English copula. Language 45: 715-62.

- 1972. Language in the inner city: Studies in the Black English Vernacular.

 Philadelphia: University of Pennsylvania Press.

 ePage, Robert B., and David DeCamp. 1960. Jamaican Creole. Creole Language
- LePage, Robert B., and David DeCamp. 1960. Jamaican Creole. Creole Language Studies, vol 1. London: MacMillan.
- McElhinny, Bonnie. 1988. Contraction of auxiliaries in White English. Paper presented at the 17th Annual Conference on New Ways of Analyzing Variation (NWAV17), held at the University of Montreal at Quebec.
- Morrow, Todd E. 1984. Bajan. B.A. Linguistics honors thesis, Stanford University.
- Pavone, James. 1980. Implicational scales and English dialectology. Ph.D. dissertation. Indiana University.
- Poplack, Shana and David Sankoff. 1987. The Philadelphia story in the Spanish Caribbean. American Speech 62: 291-314.
- Rickford, John R. 1974. The insights of the mesolect. Pidgins and creoles: Current trends and prospects, ed. by David DeCamp and Ian Hancock, 92-117 Washington, DC: Georgetown University Press.
- Rickford, John R. 1987. The haves and have nots: Sociolinguistic surveys and the assessment of speaker competence. Language 16: 149-178.
- . 1989. Continuity and innovation in the development of BEV <u>be2</u>. Paper presented at the 18th annual conference on New Ways of Analyzing Variation (NWAV-18), Duke University, Durham, North Carolina.
- . 1990. Response [to Mufwene's Number Delimitation in Gullah, 1986]. American Speech 65.
- In press. Grammatical variation and divergence in Vernacular Black English. Internal and External Factors in Syntactic Change, ed. by Marinel Gerritsen and Dieter Stein. (From a 1989 Int'l Conference on Historical Linguistics workshop.) Amsterdam: John Benjamins.
- Rickford, John R., Ametha Ball, Renee Blake, Raina Jackson, and Nomi Martin. 1988. Rappin' on the copula coffin: Theoretical and methodological issues in the variable analysis of BEV contracted and deleted be. Paper presented at the 17th Annual Conference on New Ways of Analyzing Variation (NWAV-17), University of Montreal, Quebec.
- Stewart, William A. 1969. Historical and structural bases for the recognition of Negro dialect. Report of the twentieth round table meeting on linguistics and language studies, ed. by James Alatis, 239-48. Washington D.C.: Georgetown University Press.
- Winford, Donald. 1972. A sociolinguistic description of two communities in Trinidad. Ph.D. dissertation, University of York.
- ______. 1989. Another look at the copula in BE and Caribbean creoles. Paper presented at the 18th Annual Conference on New Ways of Analyzing Variation (NWAV 18), Duke University, Durham, North Carolina.

TABLE 1

TABLE 1. Implicational table for copula distribution (Bushlot). Key: 1 = de/bin de in Cols. 1-4; a/bina in Cols. 5, 7, 8; θ/bin in Col. 6. $2 = \theta$ except in Col. 6.

3 = iz/woz (no person concord).

4 = be with full person concord.

Environments: Col. 1 = locative; Col. 2 = existential; Col. 3 = time/maner adverbials; Col. 4 = preceding non-finite structures; Col. 5 = cleft S's; Col. 6 = pred. adj.; Col. 7 = NP complement; Col. 8 = impersonal S's; Col. 9 = V-ing. Scalability = 95.6%.

	19.	18.	13.	1.	17.	15.	27.	5.	۵.	28.	10.	21.	6.	14.	12.	,t.	25.	9.	2.	26.	24.	20.	7.	16.	E.	SPEAKER
Source:		1	н			1	1	1		1								1 1	1 1	1 1	1		1	1	1	1 2
: Bickerton					_	1	1			1												-				4
ton 1973:	4	ယ	13		ພ	.	1	1		1								1		1			1			•
table	4	ω		ಬ	w 6	13	13			-	-	-	1	1	μ,	-		-	-	1						•
2, p. 651.	c									,	-						,	-							-	7
	4		<u>ਹ</u> ੂ	٠ •	9	•	ω !		3								٠	4					•	1		

TABLE 2

Following Syntatic Environment Ranking of Copulas Favored by

	76% 17% 6% 2%	
	5 2 2 1	
B. C	23 % % % % % % % % % % % % % % % % % % %	A. Ja
B. Gullah	ben de	A. Jamaican
	45% 17% 17%	
	C	1
	NP 47% 31% 22% 0%	

be 9 0

Source: Holm 1984: table 1, p. 292 cb

b 0 d

46% 28% 11% 7%

cp urq zi

cep ep

13% 13% 13% 7%

bin

70%

bın

64% 112% 100% 5%

TABLE 3

Varbrul Probabilities for Labov Contraction and Deletion of am, is, and are in Barbados and Samaná

PERSON NO. PERSON NO. PREC. PHON. FOLL. PHON. FOLL. GRAMM.	Factors/Constraints Pers. Pro: Other Pro: NP: 1st Sg: 'am' Pl & 2nd Sg: 'are' 3rd Sg: 'is' Cons: Vowel: Cons:Vowel:Uing:Loc:Adj:NP:	CONTR/ Barbados79581656 JECT60 SUBJECT [.48] [.52]4159556016	CONTRACTION Barbados Samaná .79 .58 .16 .56 .56 .56 .57 .58 .58 .45 .35 .35 .35 .35 .35 .38 [.48] .38 [.52] .62 .41 .93 [.52] .62 .41 .93 .59 .41 .90 .54 .48 .54 .40 .35 .40 .35	DELETION Barbados Samaná .19 .45 .84 [.47] EC [.58] BB (.58 [.45] SB (.5	TION Samaná .06 .53 .28 Not Sig. .64 .36 .36 .46 .36 .46 .46 .41
PHON. FOLL. GRAMM.	Vowel: Gonna: Ving: Loc:	.59 .91 .55	.40 .40	.77 .65	<u> </u>
	Loc: Adj: NP:	.54 .40 .16	.35 .24	.42	
SPEAKER	Mary: Peter:	.64	Not Sig.	.62	
	Cricketman 1: Cricketman 2:	.22	::	.14	4 00
	Mac:	.43	=	.18	ω.
	Sarge: Daniel:	.31		.70	40
Overall %s: # Of Copula	Overall %s: # Of Copula Tokens (n's):	74% 522	77% 489	61% 385	5%
Input Probabilities:	ilities:	.86	.89	.88	∞ .

Parentheses [] indicate values for factors thrownout as insignificant during VARBRUL regression step-up/step-down analysis.
 Personal pronouns: you, she, we, they. Other pronouns: these, somebody,

during game. Cricketman 1: Cricketman to interviewer (RB); Cricketman 2: Cricketman to peers

Samaná source: Poplack and Sankoff 1987: 306, table 5.
 Variants of <u>it's</u>, <u>that's</u>, and <u>what's</u> included in Samana data, but not Barbados

TABLE 4

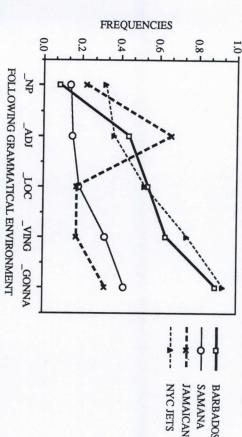
Alternative formulae for computing contraction and deletion %'s

Hypothetical data set: 10 tokens of <u>is</u> or <u>are</u> (Full Forms, F), 10 tokens of <u>'s</u> or <u>'re</u> (Contractions, C), 10 tokens of <u>0</u> (Deletions, D).

Romaine contraction:	Labov deletion:	Labov contraction:	Straight deletion:	Straight contraction:
F+C	C+D	C+D F+C+D	D F+C+D	C F+C+D
$=\frac{10}{20} = 50\%$	$=\frac{10}{20}=50\%$	$=\frac{20}{30}=66\%$	$=\frac{10}{30}=33\%$	$=\frac{10}{30}=33\%$

Source: Rickford et al. 1988: table 1.

FIGURE 1
Copula absence by following grammatical environment (straight deletion freqs.)



Sources: Samaná, Poplack and Sankoff 1987:305; Jamaica, Holm 1984: 293; NYC Jets, Labov 1972:86.

Parts of Speech in Autolexical Syntax Jerrold M. Sadock University of Chicago

Aristotle (De Int 2:20, e.g. Ackrill, 1987) told us that nouns are words that do not express time. Bloch and Trager (1942) said that nouns are words that are centers (i.e. heads) of substantive phrases that may be preceded by modifiers. Langacker (1987) told us that nouns indicate regions in a domain, and Miss Reardon told me that nouns are names of persons places, or things.

None of these claims is wrong, per se, but the problem that I see with each of them is that it is one sided. Aristotle's rule for recognizing nouns is (basically) morphological, since what he meant was that Greek nouns do not take tense inflections. Bloch and Trager provided a completely syntactic criterion (though elsewhere, to be sure, they included morphological touchstones.)

Langacker's characterization is semantic, employing entirely cognitive constructs, and my fifth grade teacher's definition was pragmatic, noting the use to which nouns are typically put. It seems clear to me that nouniness involves all of these things, and that similarly, for other parts of speech, characteristics relating to various linguistic dimensions figure in their classification. The multi-modular view of parts of speech is familiar (see, for example, Schachter 1985), and I will therefore not attempt to back it up, except by example. What I wish to do here is to show that the multi-modular definitions of parts of speech can be given natural and enlightening formulations in a theory, such as Autolexical Syntax, that radically separates the representation of linguistic expressions in the various components of the grammar.

Suppose we take a grammar to be a set modules or components, each of which is itself a grammar of an independent level of linguistic representation (i.e. the "tactics" of that level in the terminology of Stratificational Grammar (Lamb 1966, Lockwood 1972)). The number and nature of the modules needed for the accurate description of natural languages is a complex, partly empirical, and partly theoretical issue, but to begin with, let us assume the existence of three traditional modules: syntax, semantics, and morphology. The syntax specifies the phrasal constituent structures that the language allows, the semantics gives us the set of well-formed meaning structures in the language, and the morphology the set of well-formed morphological entities, less formally: words. I take it to be a virtue of this system of grammar that there is only one autonomous set of semantic principles, and one autonomous set of morphological principles, a virtue absent in many hierarchical theories where both semantics and morphology are split into two or more quite separate components.

Finally let us suppose that, unlike what is assumed in Stratificational Grammar or Transformational Grammar, these modules are not hierarchically related to one another. Conceived of as a grammar of a certain dimension of representation, a module need not wait for the output of another to do its work, but has the power to generate (or analyze) an infinite set of representations quite independently of what is going on in any of the other components. Each component is a self-contained system, with its own independent set of rules, principles, and basic vocabulary.

The glue that binds these independent grammars together and makes them a description of a single language is the lexicon, an annotated list of the fixed expressions in the language, be they morphemes, words, or phrases. Each item on this list, i.e. each lexeme, also includes statements as to its behavior in each of the parallel modules, indicating, for example, whether the item is a morphological stem or affix, whether it combines syntactically with NP complements, and whether it is a predicate or operator in the semantics, and so on. Besides the lexicon as a link between essentially autonomous