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Want me to leave, just tell me. (If you want . .

DONNA JO NAPOLI, University of Michigan

INITIAL MATERIAL DELETION IN ENGLISH

strings which may consist of one or more words, parts or ordering of the phonology with respect to stylistic rules in the shown that a similar rule exists at the sentence level, deleting stressed material of words and phrases. In this article it is words and combinations of these. An argument that the ing between alternative theories of anaphora. Extended Standard Theory, and it offers evidence for choos missing string has a phonetic matrix is offered, showing tha idea that stress rules have varying domains, it calls for a new tactic nature of the rule is presented. This work supports the tion. Then evidence of the phonological as opposed to syn the sentence level rule involves deletion and not interpreta English has phonological rules which delete initial lightly

Introduction

of some initial material corresponding utterance that is identical except for the lack In English many nonimperative sentences have a

(1) gives a representative list of examples

Seen Tom? (Have you seen Wish Tom were here. (I wish. Fine friend you turned out to be! (A fine . . . Paper boy's here. (The paper . . .) Good thing you decided to come along. (It's a good... Soon as your mother arrives, I'm leaving. (As soon . . . Cat got your tongue? (Has the cat . . .) You seen Tom? (Have you . . Hair's too long! (Your hair... Splains it very well. (She explains...) Spect you're waiting for your mom, huh? (I expect... Sgusting as John is, I still love him. (As disgusting... Fessor arrived yet? (Has the professor... You want me to leave, just tell me. (If you . . . Fessor you expected is here. (The professor....)

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Items such as subjects, auxiliaries, determiners, possessive pronouns, clause introducers, initial syllables or parts of syllables of words, and combinations of these can be missing.

another analysis of these utterances is refuted. In Section 3 a phonological rule rather than a syntactic one. In Section 2 syntactic and phonological theory are discussed. out. In Section 5 the implications of this analysis for both evidence for deletion as opposed to base generation is given. In Section 4 the phonological character of the rule is pointed In this paper I argue that the missing material is deleted by

Another Analysis.

of the best arguments of the works preceding his and refuted ambitious one I know of and since he has incorporated some a word; 'sgusting for disgusting.1 I discuss here only examples in (1) as part of a single phenomenon with the notable exception is Thrasher (1974), who sees all the particular type of item, such as subjects, for discussion. A types seen in (1), most often singling out deletion of a some of the least tenable. important exception of the deletion of the initial segments of Thrasher's analysis, since it is the most comprehensive and Many linguists have noted one or more of the sentence

types of rules deleting initial material: deletion under (1973) outlines, exemplified in (2). 'under identity' he means the kind of phenomenon Morgan identity and deletion which calls for 'no identity'. By deletion Thrasher assumes the position that there are two basic

- Are you reading?

 No, writing a linguistics paper. (No, I'm writing . . .)

any part of the string could be deleted 'under identity', 'trigger' for deletion can be found; as in all the examples of can occur in discourse initial position where no identical discourse. In contrast, he wants to focus on strings which usually with the string immediately preceding it in the Thrasher claims (op. cit.: 78) that in Morgan's fragments (1) above. Thrasher sees as a major distinction the fact that

> any part of the string and not just the initial part, as in (3). Morgan's general ellipsis rule; as Morgan dubs it, can delete

- (3) a. Who brought the witch cake?
 b. Strega Nonna, of course. (Strega Nonna brought...)

generated. positing a rule of general ellipsis. Yanofsky (1978) argues convincingly that NP utterances, (as in (4)) are base first that there is strong evidence that Morgan is wrong in material, however, is misguided for many reasons. Consider This division into two deletion types for missing initial

(4) Sharks! (Look out!)

She has three basic arguments

A deletion analysis would require the existence of a deletion rule which can delete nonconstituents freely.

In (5b), for example, the string, 'This fantastic witch cake was made by' would be deleted. 2

- (5) a. Who was this fantastic witch cake made by? b. Strega Nonna, of course. (This fantastic....)

This string is certainly not a constituent

The putative deletion rule would result in since there are a number of full sentence sources nonrecoverable deletion in most (all?) cases, that one might posit for each NP utterance.

semantics incorporates the principle of recoverability of Since Thrasher adopts a generative semantics framework deletion, Yanofsky's criticism should hold for Thrasher. (see especially, op. cit.: 80), and since generative

Since NP utterances can occur in discourse initial account for all NP utterances. generated analysis, this same analysis can Given that these utterances then demand a base pragmatic controller for many such utterances position, there is no reasonable linguistic or

constituent before the application of the rule (op. cit.: 734). careful reading of Morgan (1973) is not necessary in order to single category utterances, such as AP's and PP's. A very condition on the result of general ellipsis. not dominated by S is more insightful than requiring an adhoc Certainly base generating these utterances as single nodes remaining fragment after general ellipsis should have been a realize that he proposes the very suspect constraint that the Yanofsky's three arguments hold equally as well for other

such examples, furthermore, the surface utterance need not category utterances are base generated (as in (3b), (4), and "paper boy's here", is dominated exhaustively by a single would claim that in the sentence; "The paper boy's here" that be a constituent before deletion: consider (1), where no one missing. This is precisely the form of the examples in (1). In remain to be explained are those where the initial material is (5b)) the only kinds of examples discussed by Morgan which If general ellipsis does not exist, then, and if instead single

of this paper concerning the syntactic and phonological apart.3 For, in fact, every argument given in Sections 3 and 4 ellipsis, and initial deletion which calls for 'no identity' falls characteristics of utterences missing initial material holds for 'under identity', which he took to be a special case of general unitary phenomenon. both types of utterance. That is, initial material deletion is a Now, however, Thrasher's division into initial deletion

and (5)) present no particular problem for recoverability, elements in the preceding discourse. Instead, he notes that a context normally labelled "under identity" (as in (2), (3), unitary nature of the phenomenon is the import he gives to generative semantics and frames all his many and insightful problem for recoverability, and it is really this problem that deletion without identity (as in (1)) presents an enormous needed to recover meaning if one didn't appeal to identical Thrasher doesn't even consider what mechanisms would be the recoverability principle. Since utterances which delete in his dissertation seeks to solve. While he remains true to One of the blinders preventing Thrasher from seeing the

> unnecessary. all initial material deletion, thus making an appeal to identity deletion.4 And his remarks are equally as valid for deletion observations in terms of conditions on deletion, in an EST recoverability, these same mechanisms can work to recover no-identity deletion needs mechanisms to allow 'under identity' as for deletion without identity. Given that his the ways native speakers gain access to a structure prior to framework his remarks can be viewed as suggestions about

unitary phenomenon, in contrast to the treatment in In this paper, then, deletion of initial material is treated as a

segments of words (as well as whole words sometimes) are as examples of the same phenomenon. (See especially missing initial material have. In this paper, they will be taken outlined in Section 3 and 4 below that other sentences with share the syntactic and phonological characteristics deleted, are part of the same phenomenon, even though they Thrasher failed to see that examples like (1 g-h, j-l), where references to Thrasher when relevant. Not surprisingly, is syntactic. In Section 4 I offer evidence to the contrary, with Section 4.4 below.) Thrasher, furthermore, argues that the deletion in question

ω Evidence for Deletion.

good evidence for the existence of underlying initial material the same types of criticisms as those in Appendix A, and are arguments given in the text, however, are not vulnerable to anaphora) are not found. In Appendix A I point out three of types of arguments which the reader might expect to find matrix and not null anaphora. In this discussion some of the (1) must have underlying initial material with a phonetic in sentences like those in (1). (due to their prevalence in linguistic literature about these putative arguments and show they are not valid. The Here I present evidence that sentences such as those in

3.1 Inflection

the verb can appear with person and number inflection. When the missing initial material corresponds to a subject,

- (6) a. b. Well, how's Teddy these days?
 Still hopes to be president some day

syntactically present, one can argue that (6b) has a third person singular matrix subject at the time of Subject-Verb If the rule of Subject-Verb Agreement requires a subject to be Agreement.

the existence of an underlying subject in (6), but also for what type of subject it must be. The underlying subject must conclude that deletion has applied. Thus this subject cannot be PRO, which has no feature bundle (see Chomsky 1979).⁵ The only remaining choice is have a feature bundle that includes person and number. phonetic material in the actual utterance of (6b), we can that the subject have a phonetic matrix. Since there is no The inflection evidence not only provides an argument for

Tag Questions

A conducive tag question can appear with missing initial material sentences (as discussed in Thrasher (op. cit.: 58-

- (7) a. Get a load of that new vocalist.
 b. Can't sing a note, can he?

coreferential with the 'he' in the tag. 6 Since that subject does a matrix subject at some point in the derivation which is subjects is that they must be coreferential with the subject of If the proper generalization about conducive tag question Lakoff (1969) among others), then one can argue that (7) has matrix sentence, but sometimes an embedded sentence, see been deleted. the sentence to which they function as a tag (usually the not appear in the sentence (7b), we can conclude that it has

3.3 Move NP

syntactically present underlyingly, we would expect this material to be able to fulfill the terms of the structural description of a transformation. 7 In fact, this is the case. In (8b) the missing subject has undergone Move NP (the Raising into Subject Position instance of the rule). If the missing material of these sentences were

- (8) b. a. How did John do in class today?
- Seems to have understood the material

generated. We can conclude, then, that deletion has been applied in (8b). point in the derivation of such sentences, (8b) could not be If there were no syntactic entity in subject position at any

3.4 Control

be able to participate in rules of semantic interpretation. In syntactic entity underlying, we would expect this material to (or, in other terms, can trigger Equi) as in (9b). fact, a missing subject can control the subject of an infinitival If the missing initial material of these sentences were a

- (9) a. Where's Ralph?b. Had to leave. Sorry.

could not generate (9b). We can conclude, then, that deletion If there were no syntactic subject in these sentences, we has applied.

3.5 P.S. Rules.

a full sentence? grammar, it would present a new problem: Why is it that the of phrase structure rules would not only be costly to the generate a great variety of fragment types. This proliferation always single category utterances. Witness (1b) and (1d-n) generated. But missing initial material sentences are not category utterances (like NP's, AP's, etc.) are base that an utterance like (10) cannot be found as a constituent in within full grammatical sentences? For example, why is if found in this expanded base could never be found embedded new categories (which would be new types of constituents) utterances would require new phrase structure rules to As Thrasher argues (op. cit.: 30-1), base generation of such In Section 2 I argued, following Yanofsky, that single

(10) 'Fessor arrived? (Has the professor . . .)

disjoined Contrast (11) and (12), where nodes, or constituents, may be

- Has the professor arrived or left?
- *Has the professor arrived or (pro)fessor left?

problems, making a deletion analysis preferable. A simple deletion of initial material does not encounter these

ა 6 Section Conclusion.

all sentences with missing initial material. have been used.⁸ Thus the data here are representative for context, comparable examples with no such context could the examples given above all involve sentences in a linguistic transformational, interpretive, and agreement rules. While and that functions as a grammatical entity (or entities) for syntactically present initial string that has a phonetic matrix with missing initial material are base generated with a From Sections 3.1 - 3.5 above, I conclude that sentences

be discussed below. This initial material is deleted by a process which will now

A Phonological Solution

but, instead, must be phonological deletion. material in these sentences cannot be syntactic deletion, I present here arguments that the deletion of the missing

4.1 Constituency

Halliday and Hasan (1976) give examples like (13) Sentences can have a variety of missing initial parts;

What have you been doing? Swimming.

operate only upon nodes and not just any string. (See also syntactic deletion rule if one assumes that syntactic rules auxiliaries from a constituent. This fact militates against a sentence. That is, there is no analysis of the auxiliary system material of (13b) corresponds to a nonconstituent in the full been swimming". With this interpretation, the missing initial Note 2 above) in English that I know of that hypothesizes that subjects and They claim that the only interpretation of (13b) is "I have

> rules cannot apply independently of each other. In be in standard English. declaratives if the subject is not deleted, the auxiliary cannot 'have' and a third time to delete 'been'. But notice that these (13b): once to delete the subject, a second time to delete trivial claim that deletion has applied three times in One could respond (as does Thrasher, op. cit.: 8) with the

(14) *I seen that movie before. (26cf. I've seen . . .)

the subject can be deleted only if the auxiliary is. be deleted with or without deletion of the subject, but then In yes-no questions, on the other hand, the first auxiliary can

- (You) seen any good movies lately? (Have you seen . . .)
 *Have seen any good movies lately? (cf. Have you seen . . .)

subject and first auxiliary are also. And in no case can a second auxiliary be deleted unless the

- (17) *I have swimming
- *Have swimming

structural description. One would be hard pressed to conflate operative here, all three would delete the initial string of their brackets, I presume) misses the point that it is not the auxiliaries (as in (1b)) articles (as in (1d)) comparative as (as delete a variety of category types such as NP's (as in (1a)) merely three applications of the same rule, since this rule can these syntactic deletion rules, saying that what we have is material of the sentence. Thus if three deletion rules were material. That is, deletion removes the initial phonetic particular choice of item that allows deletion, but, instead description that allows all those items to delete (with curly Section 4.5 below. Thus, writing a rule with a structural position; and they all can receive low stress, as discussed in have in common is that they can all appear in sentence initial into which all these items fall; the only characteristic they in 1i)), and if (as in lo)). There is no natural syntactic class the sentence which is not preceded by any other phonetic footnote 1 above note, is that deletion applies to material in The proper generalization, as many of the sources cited in the particular position (ie, initial) (Contrast all the examples in (17) to 'I have been swimming'.)

generalization that all three do essentially the same either syntactic or phonological, the rule in question must be offers no insight into the problem. I conclude that the deletion the (non) constituency problem is clumsy, misguided, and thing: delete material from initial position. This way out of be a syntactic deletion rule. Since all deletion rules must be rule operative here deletes nonconstituents and, thus cannot On the other hand, positing three rules fails to capture the

The Contraction Facts

auxiliary cannot appear in the corresponding missing subject auxiliary can undergo contraction in a full sentence, then this missing initial subject is not free. They claim that if an the presence or absence of an auxiliary in a sentence with a Akmajian, Demers, and Harnish (1979) have noticed that

- (18) a. How is he? b. Better. (cf.
- Better. (cf. *Is better.)

contractable nor phonetically reducible in a full sentence, On the other hand, they claim that if an auxiliary is neither subject sentence. this auxiliary must appear in the corresponding missing

- (19) a. How are you?
 b. Could be better. (cf. *Be better.)

grammaticality judgments. corresponding missing subject sentence. (20) gives Siegel's reducible in a full sentence, there is no grammatical observation: Muffy Siegel (personal communication) has added a third if the auxiliary is not contractable but is

- (20) b. c. What do you think of linguistics?
 *Can understand it if I try. (I can . . .)
- *Understand it if I try. (I can . . .)

contractable auxiliaries can appear in some missing subject example, with her grammaticality judgments given there. sentences, whether contracted or full. She offers (21) as an McCray (personal communication) has pointed out that The above claims are not entirely correct, however. Alexa

- (21) a. b.
- How's the veal today?
 Has been better. / 'S been better. / 'Been better

Deletion type), whether reduced or full. missing subject sentences (especially of the so-called VP And one can certainly hear noncontractable auxiliaries in

- (22) a. You can't do that!
 b. Can, too (do that)! / C'n, too (do that)!

auxiliaries are not contractable in the corresponding full string of auxiliaries can also be deleted along with the contraction of the subject and the auxiliary exists, deletion of and deletion. He correctly states that (op. cit.: 48) 'if a general, but, instead, sometimes it is irrelevant. contractability to be crucial to this deletion process in sentence. Thrasher's claim would lead one to expect subject and the first auxiliary (as in (13b)), even though such valid. The problem is that auxiliaries which come second in a possible, deletion of both is not possible, seems equally namely that when subject-auxiliary contraction is not both is possible'. The covert implication in this statement, Thrasher also claims a relationship between contraction

auxiliary-negative contraction he means contractions like auxiliaries must obligatorily drop along with the subject'. By auxiliary-negative contraction seems to determine which exhibit the same pattern in (23) - (24). isn't for is not, aren't for are not, etc. This is not true, however. While isn't exists and *amn't (am not) doesn't, is and am Thrasher goes on to claim: 'The availability of the

- (23) a. What's the matter with him?
 b. ('S) not going to be able to do it this time. And that makes him
- (24) a. What's the matter with you?b. ('M) not going to be able to do it this time. And that makes me

deletion. Thus, once more, contractability is not a crucial factor to

contractability or reducibility per se, but instead in the stress pattern of the sentence. The proper generalization, I believe, lies not in

environments where it is natural to stress be, be can occur in answer to (18a) seems odd semantically. In other circumstance under which is would receive prominent stress could in (19b), have in (21b), and can/c'n in (22b) are all fine. segment, like 's in (23b)) must carry prominent stress. Thus syllables (that is, if it is an eligible candidate to carry stress contrastive stress on be and the subject is missing. the absence of a subject. For example, in (25b-c) we have is if it contrasted with something else. But a contrastive Is in (18b) is ungrammatical, however, because the only initial material sentence, if it is composed of one or more as opposed to a reduced form that has no syllabic Any auxiliary that does appear in the surface of a missing

- You're a complete so-and-so.
- Am not (a so-and-so)! (I am . . .)
- Are, too (a so-and-so)! (You are . . .)

constitute a syllabic segment by itself, but instead must become part of the following syllable, the answer is And notice that if be is contracted in (18b) so that it does not

the stress in (26); the first syllable of better does. This is because 's (the form of be) doesn't (and can't) receive

call for considerable lower stress on can. Compare (20b) to call for prominent stress on can and for many people does not among them. Note, though, that the context there doesn't As for (20b), some speakers find it strange, although I am

perfectly acceptable. In contrast, the object of it in (20b) With the highest stress peak on the object anything, (27) is receives the prominent stress and can receives lower stress, resists stress. The result is that in (20b) the verb understand making it, therefore, less likely to remain if the subject is

> understand to have lower stress, so that the stress of can is deleted. But in (27) anything's high stress causes the verb not appreciably lower than the stress of the verb that follows it. Therefore, can can remain in $(27)^9$ (See also the further remarks on intonation in Section 4.5 below.)

which syntactic rules precede phonological rules, the deletion in question cannot be a syntactic process. 10 And components are discrete, this cannot be a syntactic rule. Therefore, it must be phonological deletion. 11 given a theory in which the syntactic and phonological relevant factor to the deletion process. Given a theory in In sum, it is clear that the stress pattern of the sentence is a

4.3 Initial Factor

adverb which would follow the subject position, is grammatical. 12 other phonetic material. Thus (28b) in which still is a question applies to material which is not preceded by any ungrammatical with deletion of the subject where still sentence adverb with the meaning of 'all the same' precedes the subject position. But (29b), in which still is a VP As was pointed out in Section 4.1 above, the deletion in

- (28) a. b.
- It isn't nice in Detroit.

 *Still, coming with you. (cf. Still, I'm coming . . .)
- (29) a. b.
- What's John doing these days?
 Still thinking about earthquakes. (cf. He's still . . .)

position, the subject may delete (providing no other phonetic sentential adverb occurs anywhere to the right of the subject preceded the subject, thus deletion is not allowed. If a blocks (28b). It is the fact that this adverb would have material precedes it). It is not the simple presence of a sentential adverb that

- (30) a. It isn't nice in Detroit.b. Coming with you all the same. (I'm coming...)

missing initial material sentences. Thus (31) contrasts with Likewise, a sentence 'linker' isn't readily found in these

- Any pears today? (Are there . . .)
 *I was wondering, any pears today? (I was wondering, are there any . . .)

Again if such a sentence linker is in noninitial position, deletion may occur. 13

- John coming, by any chance? (Is John . . .)
 *By any chance, John coming? (By any chance, is John . . .)

one would worry about where adverbs might appear, since descriptions for transformations in the standard theory were as I know sentential adverbs and/or sentence linkers can syntactic rule. That is, while syntactic rules may move preceded by any phonetic material is an odd one for a even to the point of making some rules unstateable with the taking them into account would complicate rule after rule, written with the implicit agreement of all concerned that noprecede the target position. In fact, most structural material into or remove material from S-initial position, as far string formalism. The requirement that the material to be deleted not be

of initial material. 14 The point, however, is that such a deletion here is not problematical for a phonological deletion are often phonetically conditioned, the phonetic condition on condition is odd for a syntactic rule. Since phonological rules description with the string formalism that allows deletion only Certainly there is no difficulty in writing a structural

Deletion of Parts of Words

Our deletion rule can delete parts of words as well as entire

(35)'Sgusting animals refused to turn down their music. I hate that fraternity! (Those disgusting . . .)

position. 15 that disgusting does not reduce to 'sgusting except in initial To see that this is not simply a word level phenomenon, note

(36) *I hate (those) 'gusting animals

are missing a determiner. In (37) we are missing an auxiliary a variety of combinations of other missing material. In (35) we And, like our other deletion examples, 'gusting can occur with plus a determiner.

(37) 'Sgusting animals ever apologize? (Did the disgusting . . .)

words are not dominated by nodes. Phonological rules, phenomenon here can only be a phonological deletion. however, can operate on parts of words. Thus is because syntactic rules operate on nodes, and parts of A syntactic deletion rule cannot delete part of a word. This

4.5 The Rule

and the post-head (the falling part after the last main accent) informal speech. about clippings). Likewise, the sentences of 1 all belong to 'frigerator (or even fridge, see Kreidler (1979) for discussion people's vocabulary, such as refrigerator, can be reduced to reduced to 'jecture, although a word common to most register word such as conjecture would probably never be quite similar. Both occur only in informal speech. A high delete the initial segments of disgusting. Still, the rules are from the sentence level rule that occurs in (35) above to the word occurs in the overall utterance. Thus it is distinct word level rule I'm talking about operates regardless of where 'tween for between (and see footnote 15 above). Note that the syllable does not receive the highest word stress, such as the syllabic segment of the first syllable where that first we have deletion of the initial segments up to and including utterances besides just sentences. Thus, at the word level points out that this rule has its counterpart in other types of we could say this rule deletes the prehead. Bolinger further the head (from the first main accent to the last main accent) into the prehead (the part preceding the first main accent) suggests that if we adopt the 'hat pattern' approach to material. Dwight Bolinger (personal communication) This rule deletes unstressed (or lightly stressed) initial deletion rule is operative in sentences like those in (1).16 intonation and divide the intonation contour of a sentence From Sections 4.1 - 4.4 | conclude that a phonologica

utterances like apple, please for an apple, please more lightly stressed of the two words. And we find NP we find examples like course for of course, where of is the This rule also has a counterpart at the phrase level. Thus

It appears that any items which have an intonation contour: i.e. words (word stress), phrases (phrase stress), and sentences (sentence stress) are; susceptible to a rule deleting a lightly stressed initial part.

5.0 Implications.

The above analysis has implications for grammatical theory. First, with regard to phonology, dropping of lightly stressed syllables that precede or follow the tonic syllable is a common phenomenon. That one particular aspect of such deletion, initial unstressed syllable deletion, should expand its domain to a whole phrase and even further to an entire sentence goes hand in hand with the idea that there are not only rules that assign word stress but also rules that assign sentence stress. That is, the analysis given in this paper lends support to the very basic idea of work on intonation that stress rules have varying domains (see, for example, the handling of the *Nuclear Stress Rule* in Bresnan (1971)).

One might ask why such a phonological rule exists. As many including Thrasher have noted, the deletion studied here occurs in informal speech (or 'intimate' styles of letter writing). Thrasher also goes on at great length to argue that in every instance of acceptable initial material deletion the information which would have been supplied by the deleted material is also supplied in some other way in the sentence. Thrasher argues that it is this redundancy that allows deletion. In the EST one could say, instead, that it is this redundancy that allows us to recover the deleted material. Either way, one might pose a correlation between informal speech and the reduction of redundancy. Certainly this hypothesized correlation needs to be further tested.

In addition this deletion leads to a shorter speech act, facilitating the rapid exchange that is typical of informal speech. In fact, as Edwin Williams (personal communication) has pointed out, the longer a sentence is, the less likely it is to have missing initial material.

(38) Where's John?

(39) Left (already).?Left in a blue car.?PLeft in a blue car with Susie.*Left in a blue car after Jane told him to shove off.

I conclude from my own observations that sentences with missing initial material in actual discourse tend to be quite short, often just a few words.

With regard to syntax, a number of implications arise. If the phonological deletion rule suggested here exists, then at least some rules of phonology must be able to follow stylistic rules. Consider (1d), repeated here for convenience.

(1) d. Fine friend you turned out to be.

Since (40) is unacceptable,

(40) *You turned out to be fine friend

the article a must be deleted after the fronting of the phrase a fine friend. But this fronting rule must be a stylistic rule, according to recent work in EST, by default, since it is neither an instance of Move NP (which is structure preserving, while the fronting rule in question is not) nor Wh-Movement (which, together with Move NP, makes up the core grammar). Chomsky and Lasnik (1977) claim that stylistic rules follow phonological rules. But (1d) is an example in which a phonological rule (Initial Material Deletion) follows a stylistic rule. Furthermore, if all stylistic rules follow syntactic deletion (as Chomsky and Lasnik further claim), we now have one more argument that our deletion in question cannot be syntactic.

A final point to be made here is that the analysis presented in this paper is the only analysis consistent with the theory of anaphora presented in Napoli (in progress).

In this work I argue that null anaphors and proform anaphors occur in complementary distribution in surface structure in every syntactic structure I have examined thus far, and I propose that this is a necessity and not just a coincidence. The proposal, based on data from Italian and English, some of which appear in Napoli (1981), entails that any structure in which a null anaphor appears in a position in

analysis defended in this paper is totally consistent with the complementary distribution hypothesis of Napoli (in anaphors (that is, pronouns) in subject position. But the there exist full sentences of English which have proform were generated with null anaphors in subject position since subject sentences (which constitute one type of missing counterexample to this proposal. In particular, missing initial material sentence) would be counterexamples if they which a proform anaphor could also appear would be a

anaphors. Neither Chromsky nor I include traces in our syntactic deletion to contrast to proforms of any category (not pronouns, whereas I include both PRO and the result of anaphor PRO, which is base generated, to contrast to statements. But Chomsky includes only the phonetically nul must occur in complementary distribution to proform which can occur in a grammar) are in exactly what we say to be a necessity based on claims about the kinds of rules governance and binding, and where my observation is taken observation is a necessity given his theory of case between Chomsky's and my observations (where his pronoun might appear...' (1979: 17). The differences another reason government is optional, then both PRO and some cases, namely those situations where for one or distribution between PRO and pronoun, although it fails in conclusion that '... there's something like complementary Binding and in the Pisa Lectures. Chomsky comes to the Chomsky's similar claims about anaphora in his paper On complementary distribution hypothesis compares to just NP's). Thus I cover all the cases Chomsky covers and One might ask exactly how the above metioned

of the uses of nonanaphoric silence in language. progress), where I show that many proposed syntactic deletion rules. This examination is undertaken in Napoli (in out to be extensive. It requires an examination of putative deletion rules do not, in fact, exist, and where I discuss some The effect of including the result of syntactic deletion turns

Looking at Chomsky's claim, then, we can see that he

arguments against a null anaphor base generated in subject a syntactic deletion analysis of these sentences. However, be preferred to one which disallows only one. position and against syntactic deletion. A theory, such as missing subject sentences without automatically disallowing would disallow a base generated PRO as the subject of mine, which disallows both of these (incorrect) analyses is to the evidence given in Sections 3 and 4 above supports

APPENDIX A

and I will show that each argument fails. These arguments existence of an underlying subject in those sentences where refutation form. have basically the same argument form and the same the initial missing material is understood to contain a subject, Here I will outline three potential arguments for the

- Reflexives. sentences Reflexive pronouns can appear in these
- € (SITUATION: A detective walks into the room and standing over it. The first detective announces,) looks from the body on the floor to the first detective

Killed himself.

within the same clause), then one could argue that (i) has an underlying matrix subject coreferential with himself. (This is If the proper generalization about reflexive pronouns is that proper generalization. Consider (ii). they must find an antecedent within the sentence (usually just what Thrasher argues (op.cit., 31-2). But this is not the

 \equiv (SITUATION: Two parents look at each other as ever cooked alone. One says to the other,) their daughter serves them the first dinner she's

All by herself, too

involves deletion (see the discussion of Yanofsky (1978) in There are strong arguments against an analysis of (ii) which

a pragmatic antecedent, and, thus, the presence of the Section 2 of the text). The reflexive pronoun in (ii), then, finds reflexive pronoun in (i) cannot be taken as evidence that there must be an underlying subject of this sentence

- Ņ Reciprocals. these sentences The reciprocal 'each other' can appear in
- school hallway as two students are dragged off to (SITUATION: There's a commotion in the high teacher who has seen all responds with,) room and raises an inquiring eyebrow. Another the principal's office. A teacher peeks out of her

Kissed each other in front of everyone again

other'. But this is not the proper generalization. Instead, 'each underlying matrix subject which is coreferential with 'each same clause), then one could argue that (iii) has an other' can find a pragmatic antecedent, as in (iv). find an antecedent within the sentence (usually within the If the proper generalization about 'each other' is that it must

3 (SITUATION: Two parents hear their children despair, bickering upstairs. One says to the other in

friends. Do you think it's inevitable? Always with each other but never with their

deletion in an utterance like (iv). Once more see Section 2 of the text for arguments against

sentence evidence that there must be an underlying subject in this Thus the presence of 'each other' in (iii) cannot be taken as

ω can appear in these sentences The Possessive 'Own'. The possessive adjective 'own'

> € crime. The one handcuffing a woman says to the (SITUATION: Two policemen are on the scene of a other.)

Killed her own children

pragmatic antecedent, as in (vi) subject coreferential with 'own'. Once more however, this is antecedent in the sentence (usually within the same clause), If the proper generalization about 'own' is that it must find an not the proper generalization. Instead, 'own' can find a then one could argue that (v) has an underlying matrix

3 (SITUATION: Two children are fighting over a seat at the dinner table. Their parent says sternly to them both,)

Your own seats, please

utterance like (vi) Again see Section 2 for arguments against deletion in NP

evidence that there must be an underlying subject in this Thus the presence of 'own' in (v) cannot be taken as

(September 21, 1981)

NOTES

is what's involved, is due to Dwight Bolinger, who for so many years has been taking my first drafts and turning them inside out until I finally understood McCray and Muffy Siegel. The major hypothesis of this paper, that apheresis them, too. My gratitude to him is stronger than ever. *For suggestions at a very early stage in my thinking about this problem I thank Edwin Williams. For comments on an earlier draft I thank Alexa

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- contributions, but offers a different reference from the one I have chosen.) phenomenon and I refer the reader to Jespersen's Essentials of English Grammar, section 10.6, and 10.6₂. (Thrasher noted Jespersen's 1. Thrasher discusses earlier analyses, including the remarks of Sweet (1891), Curme (1931), Morgan (1973) (about which more follows in the text), Long (1961), Francis (1958), Schmerling (1973), Shopen (1973), Laferrier Other works on this topic, which came out after Thrasher, are referred to in (1973), and Bolinger (1967). Jespersen has also remarked on this the text. Francis (1958), Schmerling (1973), Shopen (1973), Laferrier
- used as examples (as I do in Napoli (in progress)) and/or their deletion nature as opposed to interpretive nature (as Siegel (1979) does). Thus in (1976: 385)), one can question the very existence of the putative rules operate only on nodes. this article I will still invoke the time honored assumption that syntactic rules nonconstituents (as, for example, Brensnan's remark about Gapping 2. While it's been claimed that some deletion rules can operate on
- now and then. For example, he discusses (op. cit.: 39) as an example of the no-identity deletion, the utterance in (i). Indeed, Thrasher himself seems to lose sight of the putative distinction
- (There's) Always two or three stupid questions

comments about his example (37), (op. cit.: acceptable 'out of the blue' can be instances of the no-identity deletion.) Thus it should be an example of identity deletion. See especially his contexts and pragmatic contexts together. Only utterances But (i), in contrast to Thrasher's explicit claims to the contrary about no-identity deletion, requires a context. (Note that Thrasher lumps linguistic 40) that are

- His ideas about grammatical redundancy as a key to recoverability seem promising in accounting for why initial material deletion does not always result in an acceptable utterance. It is in this area that Thrasher makes his most interesting contributions
- in English since this is a governed position and PRO cannot be governed (see Chomsky (1979)). Of course the subject cannot be trace since there's no evidence of movement. Furthermore, PRO would be blocked from subject of a tensed S position
- seeing a man carrying a bagful of tomatoes, I cannot say, This type of tag question cannot appear with NP utterances. Thus upon
- € *A lot of tomatoes, hasn't he?

But I could say

\equiv A lot of tomatoes, huh?

examples of the missing initial material sentences studied in this paper and sentences like (iii) are not counterexamples, since they are best analyzed as not as NP utterances That is, only the tag which requires an antecedent is disallowed. Note that

(A) lot of tomatoes, aren't there? (There are a lot . . .).

as the arguments in Appendix A. Thus the tag question argument in the text is not open to the same criticisms

- Another movement rule that one might argue that these sentences can undergo is Subject-Auxiliary Inversion.
- Visited/Seen/Talked to John lately? (Have you visited . . .).

system of English, I leave the question open. material sentences. Since I will not here go into an analysis of the auxiliary participle does not form a constituent with following complements of the verb a theory in which auxiliaries are generated inside the VP and in which a past (see Section 2 above), depending upon one's analysis of auxiliaries. Only in are examples like (i) convincingly argued to be instances of missing initia These utterances are open to an analysis as base generated VP's, however Here both the inverted subject and the auxiliary are missing (as in (1c), also)

- Ċ instead of (6), we could have used
- Don't hear anything, do you? (You don't...)
- (i) would serve as well in place of (7). Instead of (8) we could have used,
- € Appears to be another sunny day

Instead of (9), we could have used

- Gotta use a telephone quick! Is there one around?
- can be answered with a look at the sentence intonation, however. Compare (lia) to (lib) as answers to (i) with the readings in parentheses. Not all questions about auxiliaries in missing initial material sentences
- ΞΞ How's the veal today?
- io io (It's better.)
- *Better. (It's been better.)

way of this deletion, sometimes only one interpretation emerges. For lots when two underlying structures can lead to the same surface structure by While the missing subject in (13b) in the text has been deleted along with other problems of interpretation and suggested explanations, see Thrasher have and be, this same deletion is problematic in (iib). It would appear that (1974) and Shopen (1972)

- rules) to apply after all syntactic rules on each cycle (as Bresnan (1971) thus the stress pattern relevant to the deletion (the stress pattern of the final, total sentence) could not be established until after all syntactic rules had argues), since the deletion in question occurs only in matrix sentences and This conclusion follows even if one allows intonation rules (ie. stress
- 11. Thrasher himself notes that stressed elements do not delete (see his footnote 7, p. 57) and he claims this is because they cannot be redundant (p. 84). Because he is using a framework in which semantic interpretation is not distinguished from syntactic transformations, these stress facts have little import for him.
- sentence with the proper intonation. Pronounce the two sentence pairs 12. In order to understand why I've starred (28b), one must pronounce the
- I'm still coming with you. I've sure seen enough of him. Still, I'm coming with you. Sure, I've seen enough of him

Note that *still* (or *sure*) in both has prominent stress, but there is a pause in (i) that isn't found in (ii). Now delete the *I'm* (or *I've*) out of both and pronounce them. (i) is unacceptable now while (ii) is still fine. It is the (i) instance that is starred in (28b)

- 13. Halliday and Hasan (1976: 192) give one example where deletion would have taken place out of noninitial position.
- 3 He must have mended it.

 Or been going to mend it, rather.

(ib) is not an example of the kind of sentence seen in (1), however. The or which introduces it attests to the fact that the respondent has merely continued the sentence of the previous speaker by way of disjoining a VP. Furthermore, if the or doesn't appear (as it wouldn't in a true example of our phenomenon), their response is ungrammatical

- 14. However, the problem of deleting nonconstituents and the problem of properly distinguishing which types of items can be deleted (discussed in Section 4.1 above) still remain
- don't use these here because there are many speakers who can use these reduced forms in any position in the sentence. That is because there is a disgusting; only the sentence level one does.) Thus I've chosen it to make my disgusting, however. (In other words, the word level rule doesn't apply to sentence topic of this paper, which can delete their initial syllables as well as the word level rule, distinct from the sentence level deletion rule which is the point. I could as well have chosen many other examples, such as, (because) and 'stead (instead). I don't think 'sgusting freely alternates with in (1) there are examples with 'fessor (professor) and 'spect (expect). I level deletion in question. Other examples include 'cause

- ≘ 'Splain it to me. (Explain . . .)
 *I'd like you to 'splain it to me. (I'd like you to explain . . .)
- € Tember is a wonderful month. *I enjoy 'tember. (I enjoy September.) (September...)

See also the discussion in Section 4.5 below in the text

linguistic contexts again. But one could without contexts. <u>,</u> As in Section 3, in Section 4 in some cases I have used examples with as easily have used examples

Thus for (13b), one could substitute

€ Reading too much lately? Try dropping out of school. been reading . . . (Have you

For a noncontractable, nonreducible auxiliary, as in (19b), one could substitute

Could be a nice day. What do you think? (It could . . .

€

€ 'S interested in everything, that guy over there! (He's...)

For a noncontractable, reducible auxiliary, as in (22), one could use

₹ Can/C'n see the monastery when we pass the next bend, so look carefully. (You can...)

could use, For an auxiliary that allows auxiliary-negative contraction, as in (24), one

€ ('S) not going to be any Christmas this year, Kids. not...) (There's

one could use, For an auxiliary that doesn't allow auxiliary-negative contraction; as in (24),

€ ('M) never gonna see you again, Paul. (I'm never...

For a deletion sentence beginning with a modifier that occurs after the subject in a full sentence, like (29b), one could substitute,

€ Sure am glad to see you, Boys! (I sure . . .)

without linguistic contexts in the text. For all the other crucial examples of Section 4 there are already examples

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