adjective, rath+er (as required in comparative clause constructions), this is entirely straightforward. First, although rather has the form of a comparative expressions as better than, taller than, etc., followed by a clause or clause comparative clause constructions. The parallelism between expressions where I.I. The issue: are rather than constructions comparatives? I. INTRODUCTION J. Linguistics 18 (1982) 137-165 Printed in Great Britain comparatives. Part of the purpose of this paper will be to argue for just such an structures containing compared adjectives (e.g., -er much tall in Bresnan rather is the comparative. Thus, any treatment that derives comparatives from apparently a fossil form: in current English there is no adjective rath of which However, the derivation of rather than expressions as comparatives is not derived in much the same way as the more familiar comparative forms. remains, suggests that the rather than expressions are just comparatives, than: tive expressions is the fact that in the former, the than clause is (almost) account English, in order to give a unified treatment of rather than expressions as rather than is followed by clause remains, and such ordinary comparative [1] We would like to thank Dwight Bolinger and Chris Clifford, whose comments at an early point in this study were most helpful in defining the questions to be raised. Thanks also go to the necessarily subjectless, while in the latter, full clauses may appear following [1973]), would have to postulate an ajective rath, never realized in modern 0022-2267/82/0018-0008\$02.00 © 1982 Cambridge University Press (I) (a)English rather than clauses display obvious surface similarities with Another problematic difference between rather than and ordinary compara-Fiona Burnett, for typing the paper. people who attended the Georgetown University Dissertation Hours in Spring, 1978, and to Θ <u></u> THOMAS G. DIETERICH AND DONNA JO NAPOLI Harry walked to work rather than Harry walked to work rather than Harry walked to work rather than Portland State Univ. and University of Michigan **Comparative** rather (Received 31 March 1980) 137 ₁ [*he ?*Bill} *he] Mailer ?*Bill Ø ?*Bill Ø drive driving. drove.

- (2) Harry walked farther than [he ran.
- Bill Ř

subject in the comparative clause, even when the subjects are identical. In from ordinary comparatives. Comparative clauses seem never to contain bare verb forms: present participles or even bare verb stems; in this too they differ addition, the subjectless rather than clauses in (1a) and (1b) display non-finite in (2) displays no identical subject constraint, and no requirement for a nul ordinary progressive or nominal construction: verb stems, and contain present participles only as the result of ellipsis of an necessarily null², at least on the surface. In contrast, the ordinary comparative those of the clause preceding rather, and those identical subjects are In the examples of (1), rather than clauses have logical subjects identical to

- (3) *Harry walked farther than [he] run(ning) Bill
- (4) (a) I like sleeping better than (I like) studying.
- 6 organized crime. The FBI was pursuing radicals harder than (it was) investigating

tions; Thompson (1972) draws attention to this parallelism in her examples: them look like certain (non-comparative) adverbial subordinate construc-The null subject and uninflected verb in some rather than clauses makes

- (5) (a) *He skates in addition to he dances
- Ξ He skates in addition to dancing.
- 6 a *Tom tiptoed in without he woke up his parents
- Ξ Tom tiptoed in without waking up his parents.
- 9 a *Karma washed the car rather than she studied for the exam
- Θ Karma washed the car rather than study(ing) for the exam.

to provide evidence that rather than expressions derive from comparative form, an adverbial subordinator, and made no effort to further analyse rather Both Thompson (1972) and Dieterich (1978) treated rather than as a unitary than expressions as comparatives. In contrast, in the present paper we will try

- Ð Ξ
- I'll walk instead of Herbert('s) getting the car out. I had a topic that I was going to bring up during the meeting, and rather than everyone just sit (we could discuss it now).

rarer than null identical subject forms, and also are marginal or unacceptable for some But the fact remains that nonidentical, non-null subject cases like (i) and (ii) are both much informants. No such conditions constrain ordinary comparatives - May, 1978

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structures, largely via rules required for generating ordinary comparative expressions

1.2. Two kinds of rather than construction

meaning difference. A minimal pair that illustrates this meaning difference rather strikingly is given in (8): tenseless clause, and that the presence or absence of tense corresponds to a Thompson (1972) first noted that rather can precede either a tensed or a

- (8) (a) Mary seduced John rather than was seduced by him
- Ξ Mary seduced John rather than be seduced by him.

verb-the 'denial of assertion or assumption' (DOA) reading; the latter logy, we will call the former reading-that associated with the tensed seducing John over being seduced by him. Following Thompson's terminoreading. Thompson characterizes these two readings as follows; the P reading: reading - associated with the untensed verb - we will call the 'preference' (P) have been claimed or supposed. (8b) on the other hand means that Mary chose (8a) means that Mary seduced John, and not the other way around, as might

impossible to carry out. (p. 242). clause over that of the adverbial clause, and furthermore that the action of a rather than sentence [with untensed verb] ordinarily presupposes that the first clause will render that of the second clause unnecessary or there is a preference on the part of the subject for the situation of the main

And the DOA reading:

snowed, which I want to deny, I can say assumption. For example, if I believe that there is an assumption that it These [tensed verb] sentences are generally used to deny an earlier

It rained rather than snowed

no matter how I may have learned about that assumption. (p. 243).

propose to derive both from comparative clause structures, where in the case sentential conjunction for tensed DOA sentences, and an adverbial complesentences it is a VP modifier. of DOA sentences the comparative clause is a sentence modifier, while in P Dieterich's lead in distinguishing syntactically between such pairs, but ment modifying the main verb for untensed P sentences. We here follow between the two types, and argued for two distinct underlying structures: a of rather than construction. Dieterich (1978) noted syntactic differences Thompson (1972) proposed a single underlying structure for these two types

TIVES EVIDENCE FOR RATHER THAN CONSTRUCTIONS BEING COMPARA-

We will present three arguments that rather than constructions - in both P and

^[2] It is possible for rather than, and similar sentences with instead of, to have nonidentical subjects. Thompson (1972) cites (i) as acceptable, and the present authors have collected one or two spontaneous occurrences, e.g., that in (ii):

DOA readings - are comparatives. First, there are significant morphological similarities between *rather* sentences and comparative structures, which appear not to be accidental when one considers some data from earlier stages of English. Second, there is a permutation rule that operates on comparative structures, which also seems to operate on *rather* sentences, and in precisely the way that our hypothesis would predict. Third, there is at least one constraint applicable to comparative structures that also applies to *rather* sentences. These three distinct kinds of similarities between *rather* sentences involve comparative structures are accounted for if *rather* sentences involve carefully noting unsolved problems we have encountered.

2.1. Morphology

To claim that *rather* sentences like (8a) and (8b) involve comparative clauses, we must identify a comparative element and a comparative complementizer. We suggest that the morphological make up of *rather* is the comparative suffix *-er* (as in *faster*) plus the adverb *rath(e)*. And we claim that the *than* following *rather* in (8a) and (8b) is the comparative complementizer *than*.

While *rath(e)* does not occur in modern English as a free morpheme, it did so occur in earlier stages of English. Thus the OED gives examples of the adverb *rath(e)* meaning 'soon', 'early', or 'quickly', with a full range of modifiers. Here we offer examples with *too*, *as*, *so*, *very*, *somewhat*, and no modifier at all.

(9) He reigned fiftene zere and died alle to rathe. 1330.

As rathe as thou hast I-sey these lettres, ne leue nat to come to socour. 1425.

Hee was wroth because she was ful of wrath so rath. 1649. It was verie rathe to haue Monasteries built in all S. Iames

time. 1565. For that it was somewhat rath for to returne, they went to the Iland

of Camabalan. 1580.

Upon some Sundaie morning rath, light it. 1584.

Rath(e), used in this sense, appeared in a full range of adjective constructions; there were comparative forms (10), and superlatives (11):

(10) The warke was finisshed rather than a man myght beleue. 1519.
 The continuance of hot and dry weather may cause them come somewhat rather. 1609.

Playsed god that ye were arryued two dayes rather, For thenne ye had found my fader on lyue. 1500.

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(11) His ... untrained, or rather unlettered, or ratherest unconfirmed fashion. 1588.

There was also an adverb rathely (12), and a nominal ratheness (13):

- (12) Then sir Rowlande full rathely up he rase. 1400.
- These ylles that we se come rathely. 1502.
- (13) God makes no difference between the rathenesse and lateness of time. 1635.

But at some point in the history of English, rath(e) became bound to -er and only that form survives today.

As for the claim that the *than* in (8a) and (8b) is the comparative clause complementizer, this amounts basically to the null hypothesis. The burden of proof lies on those who would claim the *than* with *rather* is some distinct *than*.

2.1.1. A possible argument about than. There is, perhaps, an argument to be culled from the following discussion in favour of claiming that the *than* that follows *rather* is comparative *than*.

Hankamer (1973) argues that there are two *than*'s in English, a complementizer and a preposition, and he discusses some interesting behaviour of *than* phrases. Hankamer claims that when a comparative *than* phrase contains only a single NP, it ceases to be an island for movement rules when that NP is (understood as) an intransitive subject or a transitive object, but not when it is (understood as) a transitive subject. Reconstructing his examples for *rather* sentences, one of his arguments appears to translate, viz., his argument from the elimination of ambiguity. (14) is ambiguous between alternative deletion site versions as represented in (15a, b).

- (14) Max hit Bill rather than Harry.
- (15) (a) Max hit Bill rather than \varnothing Harry.
- (b) Max hit Bill rather than Harry \emptyset

When the NP after *than* is moved, as in (16) and (17), acceptability is lowered, but apparently we get readings corresponding only to (15a), and not to (15b). That is, (16) asserts that Max didn't hit Harry (but hit Bill instead); (17) questions who Max didn't hit (hitting Bill instead).

- (16) Harry is the man who Max hit Bill rather than.Harry is the man rather than whom Max hit Bill
- (17) Who did Max hit Bill rather than?
- Rather than whom did Max hit Bill?

(14-17) work out exactly the same way if *rather* is replaced by *harder*, thus yielding examples similar to Hankamer's. The only difference is that it is somewhat worse to move an NP out of a *rather* expression than out of other kinds of comparatives. (16) and (17) are relatively worse with *rather* than with

disambiguation there seems pretty clear, and can be taken as an argument by rather or by some ordinary comparative adjective. can be extracted from a than expression, whether that expression is preceded parallel to Hankamer's: Transitive object NPs, but not transitive subject NPs. harder. In spite of the fact that (16) and (17) are not perfect, the

comparative clauses: subjects are more immovable than transitive objects, in the remains of Hankamer also produces the following examples to show that transitive

- (81) ?There's nothing than which I like avocadoes less
- (19) *There's nobody than whom I like avocadoes less

however, because the rather version of (19) is not so good (on the intended Replacing less with rather in (18, 19) doesn't help us to show anything, reading) even without movement of the NP:

(20) I like avocadoes rather than Bill (\neq rather than Bill likes avocadoes.)

object movement. In other rather examples our informants didn't like either transitive subject or

- (21) (a) (b) John ate the beans rather than the steak.
- *What did John eat the beans rather than?
- (22) (a) (b) John ate the beans rather than Harry. (stress on John)
- *Who did John eat the beans rather than?

phrases (as Hankamer says): Likewise, an intransitive subject can move from ordinary comparative

- (23) (a) John coughed louder than Bill
- ਭ Who did John cough louder than?

but moving from similar rather expressions is pretty bad

- (24) (a) (b) John coughed, rather than Bill.
- *Who did John cough rather than?

of moving any NP, even when rather than is followed by only a single NP. depend on what NP is moved are submerged in the general ungrammaticality So, for rather sentences it looks like any grammaticality differences that

transitive subject or object NP out of a rather comparative and (contra Hankamer) also out of ordinary comparatives. What is more, there are examples in which it is acceptable to move either the

- (25) (a) (b) Who did you say you'll get to eat the avocadoes rather than? What did you say you'll get to eat the avocadoes rather than?
- (26) (a) (b) What did you say you get to eat avocadoes less often than?
- Who did you say you get to eat avocadoes less often than?

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subjects and objects differ with respect to syntactic islandhood. (25) and especially (26) cast some doubt on Hankamer's claim that transitive

disambiguation data of (14-17), parallel for ordinary comparatives and the marginal or ungrammatical status of any rather sentence out of which an NP rather than expressions are comparatives rather cases, may constitute an argument in favour of our hypothesis that has been moved, it is not clear exactly what conclusions can be drawn. Still, the Given the questions we have raised about Hankamer's proposal, and the

can be pied piped with or without the head adverb for some speakers. at least some speakers. Thus, for ordinary comparative adverbials, the than 2.1.2. A problem. There are some discrepancies between pied piping out of rather comparatives and pied piping out of other comparative adverbials for

- (27) (28)There's nothing which I like avocadoes more than What do you like avocadoes more than? There's nothing more than which I like avocadoes There's nothing than which I like avocadoes more.
- ?Than what do you like avocadoes more? More than what do you like avocadoes?

But with rather comparatives the than cannot be pied piped without rather:

- (29) (30) *There's nothing than which I'd eat avocadoes rather There's nothing which I'd eat avocadoes rather than What did you eat avocadoes rather than? There's nothing rather than which I'd eat avocadoes
- *Than what did you eat avocadoes rather? Rather than what did you eat avocadoes?

can be shown that rather occurs in a different comparative structure from some. Furthermore, many speakers have uniform judgments for (27-30), of rather in (29) and (30) results in the same grammaticality judgments for modified accordingly. more, then the permutation rule discussed in Section 2.2 below may have to be finding the second sentence of each example group bad and the others strange. However, rather is not alone in this respect. Thus, substituting faster in place We leave this problem without further comment, with the knowledge that if it

2.2. Permutation

of ordinary comparatives before proceeding to rather comparatives. comparative clauses. Since the syntax of comparative constructions is intricate, we will present some discussion of relevant aspects of the derivation 2.2.1. Ordinary comparatives. Bresnan (1973) offers a syntactic analysis of

Underlying a sentence such as (31) would be $(32)^3$.

- (3I) I'm sadder than I am angry
- (32) I am -er much sad than I am x much angry. ['I am both angry and sad but I'm sadder than I am angry.']
- In (32) -er much, the QP modifying sad, originates to the left of that adjective.

right of its adjective, as shown in (34): However, there are also sentences like (33), where -er much originates to the

- (33) I'm sad more than (I'm) angry
- (34) I am sad -er much than I am angry x much

across the adjective in (34) to derive (35): Bresnan also proposes a rule called QP Permutation, which moves -er much

(35) I'm more sad than angry

associated adjective. Thus apparently, Bresnan would find (36) ungrammatiobserves that Comparative Ellipsis (CE) must first apply, deleting I am from പ്പി the comparative clause, before QP Permutation can move -er much around its which we will not repeat here. In the course of this discussion, Bresnan Bresnan (1973: 326-7) provides some motivation for this permutation rule.

(36) ?I'm more sad than I'm angry

grammar is to generate (36), it must do so through application of QP Permutation, providing another argument for this rule. Let us see why. We and our informants, on the other hand, find (36) marginal at worst. If the

- (37) (a) I'm sadder than I am angry. [=(31)]
- Ξ *I'm sadder than I'm angry.
- <u></u> I'm -er much sad than I am x much angry
- (38) æ I'm sad more than I am angry.

[3] In Bresnan's account the comparative clause originates as a sister constituent to -er in the QP -er much:



extraposed position. The comparative clause is then extraposed; in (32) and elsewhere, we show it already in

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- (39) (a) (b) (c) I'm sad more than I'm angry. [=(33)]
 - I'm sad -er much than I am angry x much.
 - I'm more sad than I am angry
 - ?I'm more sad than I'm angry. [=(36)]
- I'm sad -er much than I am angry x much

apply. So, for example, only when -er much originates before an adjective like sad can this structure combine into sadder. When QP Permutation moves -er have combined them, *(37b). Bresnan proposes that the output of QP not combined -er much with its adjective, (38b), but cannot contract when we Note that we can contract $(I am \rightarrow I'm)$ in the comparative clause when we have have originated before sad in these sentences - i.e., they must have come from much to pre-adjective position, it cannot combine, and more sad must result. Permutation is a structure to which comparative adjective formation cannot comparatives), contraction should not occur. contraction in (39b), where without it, (given the rest of Bresnan's theory of the adjective angry. Thus QP Permutation helps to explain the acceptability of Permutation, from (39c), where the deletion site of x much lies to the right of impossible before the deletion site of x much; (39b) must derive, via QP Comparative Deletion (x much $\rightarrow \emptyset$), because contraction would then be (39b) this contraction is acceptable. (39b) cannot derive from (37c) through before the site from which x much has been deleted.⁴ In contrast, in (38b) and (37c). *(37b) is ungrammatical because I am is illegitimately contracted to I'm Thus, in (37a) and *(37b), the occurrence of *sadder* shows that *-er much* must

what I feel is more like sadness than like anger. Bresnan associates this sadness is greater than that of my anger; in the second reading it asserts that ambiguous: in one reading it asserts that the frequency or duration of my adjective. As Bresnan (1973) observed about a similar example, (33) is return to example (33), where the QP -er much originates to the right of its \overline{S}] can either modify the main VP or the matrix S in a comparative sentence ambiguity with a syntactic distinction in which the $ar{Q}ar{P}$ structure [-er much than Having offered some evidence for the existence of QP Permutation, let us

[4] We do not believe that constraints on contraction can be adequately explained in terms of a following deletion site, due to sentences like the following:

The fact is/*fact's that smoking kills [from Kuno (personal communication)] Your theory can't account for the data in examples (2) through (756)

, your solution is inadequate

that is/*that's that is to say/?*that's to say

See also Dieterich (1977) for an argument against the pre-deletion-site theory of contraction. In spite of the inadequacy of this theory to explain all cases where contraction is unacceptable, it acceptability of contraction in (39b), on which the present argument turns, does provide does seem to be true that contraction is always unacceptable before a deletion site. Thus the evidence that no deletion site intervenes between I'm and angry in that sentence.



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- (a) Mary seduced John rather than was seduced by him
- (b) Mary seduced John rather than be seduced by him.

These two forms correspond to two distinct readings, which were dubbed the 'P' versus 'DOA' readings. We wish to claim that the tensed sentence in (8a), with a DOA reading, derives from an S-modifying structure something like (41), while the untensed sentence in (8b), with a P reading, comes from a VP-modifying structure something like (40). To derive these *rather* comparative sentences from structures similar to those underlying ordinary ary comparatives means that the *rather* sentences should behave like ordinary particular, our claim makes the following predictions:

- (i) There should be *rather* sentences with the properties of the ordinary comparative in (31), viz., sentences in which *rather* is base-generated in the VP-internal position, and which have only a reading corresponding to a VP-modifying structure; (in the case of *rather* sentences, this means they should have only a P reading).
- (ii) Ordinary comparatives in which the QP appears in VP-final position can be derived either from S- or VP-modifying structures (producing an ambiguity in example (33)); similarly, there should be sentences with VP-final *rather than*... which derive from an S-modifying structure (and which have DOA readings), and sentences with VP-final *rather than*... which derive from a VP-modifying structure (and which have P readings).
- (iii) To account for the disambiguation that accompanies permutation in the ordinary comparative sentence (35), we hypothesized that Bresnan's QP Permutation rule applies only to S-modifying structures, and not to VP-modifying structures; sentences with VP-final *rather than*...should similarly display permutation (of *rather*),⁵ but only for those sentences that derive from S-modifying structures, and not those that come from VP-modifying structures.

2.2.3. *Evidence*. With regard to prediction (i), we claim that *rather* in example (42) is base-generated in VP-internal position, with a P reading only:

(42) Hal would rather go to the movies than study.

In its dominant reading, (42) attributes to Hal a preference for cinema over studying. To complicate matters, (42) also has a (barely detectable) DOA

^[5] The rule that would thus permute *rather* would be an AP permutation rule, rather than a QP permutation rule. As yet we have not demonstrated the existence nor investigated the properties of such an AP permutation rule, so we cannot yet claim to have predicted the moveability of *rather* from VP-final position. Below we will show that *rather* and other APs do permute, and argue that this permutation is accomplished by an extension of the QP Permutation transformation discussed above.

in (43b), placed in a context that brings out a DOA reading: reading. Compare the similar would rather sentence in isolation in (43a), and

- (43) (a) I would rather be dancing with a beautiful woman right now, than lying in this muddy foxhole.
- Θ If I had stayed a civilian, instead of joining the army, I would () rather () be dancing with a beautiful woman right now, than lying in this muddy foxhole.

reading of that sentence has transformationally moved rather. of prediction (i). Below, we will argue that the P reading of (42) has rather connection with predictions (ii) and (iii); so we will postpone further treatment simply an alternative reading of the base-generated VP-internal structure. base-generated in its surface VP-internal position, and that the minor DOA Demonstration of this requires some of the discussion to be developed in from a position immediately preceding the comparative clause, and is not We claim this DOA reading arises when rather is transformationally moved

VP-modifying structures. sentences: both arise from an underlying structural distinction between S- vs pheonomenon as the DOA vs. P distinction in VP-final rather than ... the verb in the *than* clause. We claim that the ambiguity of (33) is just the same tives, the distinction is overtly marked by the presence or absence of tense on and (8b). In the case of rather than constructions, unlike ordinary compara-VP-final rather than . . . permit both DOA and P readings; cf. examples (8a) With regard to prediction (ii), we have already seen that sentences with

structures, but not with VP-modifying (P) structures. These expectations are sentences have DOA readings only:6 borne out. (44) displays rather in several alternative positions; all these that this movement of rather should be associated with S-modifying (DOA) that rather should be moveable in VP-final rather than . . . constructions, and which we will now examine at some length. In prediction (iii) we anticipated Some concrete evidence for this claim involves the permutation of rather,

- (44) (a) Hal was detained rather than (was) arrested
- Hal was rather detained than (was) arrested
- ා ල Hal rather was detained than (was) arrested

the case of tensed-verb than clauses, and not in the case of untensed clauses: Furthermore, and crucially, rather thus occupies alternative positions only in

- (45) (a) Hal got detained rather than got arrested
- Θ Hal rather got detained than got arrested

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- (46) (a) get himself detained in order to avoid arrest. Hal got detained rather than get arrested. [i.e., Hal contrived to
- *Hal rather got detained than get arrested.
- (47) (a) (b) John rather threw out the leftovers than ate them John threw out the leftovers rather than ate them
- (48) (a) John threw out the leftovers rather than eat them
- ਭ *John rather threw out the leftovers than eat them

If the VP-internal rather's in (44) through (48) are indeed derived through (35) . moved in (44) through (48), and by the same rule that moves the quantifier in supported. It remains to be argued that rather has been transformationally claimed source of DOA vs. P readings in S- vs. VP-modifying structures is tions in DOA sentences, but not in P sentences; and (in view of (35)), the prediction (iii): rather is permutable out of VP-final rather than . . . construcpermutation of the rather's in the (a) sentences, then these examples verify

at all should occur. construction, then our hypothesis (iii) above would predict that no P reading in (42) could only arise via permutation from a VP-final rather than ... under the dominant P reading of that sentence - for if the VP-internal rather c), (45b) and (47b). We must also argue that the rule was not applied in (42), must argue that such an AP permutation rule exists, and has applied in (44b, an AP permutation rule, not the QP Permutation rule of Bresnan (1973). We In footnote 5 above, we pointed out that a rule permuting rather would be

considerations of symmetry in Bresnan's (1973) theory of comparatives. In and (47b) would fill the gap in the parallel between QPs and APs in Bresnan's rule. Thus the AP Permutation rule required to move rather in (44b, c); (45b), account of comparative structures. hold for both QPs and APs. The one exception to this symmetry is the QP Bresnan's account, all rules and characteristics described for comparatives Permutation rule, for which Bresnan offers no corresponding AP Permutation One (strictly theoretical) argument for AP Permutation arises from

before a VP-final than clause: sentences in which a comparative AP can either appear VP-internally, or Empirical evidence to back up this theoretical argument is offered by

- (49) (a) She would play the piano more likely than (she would) sing madrigals.
- Θ She would more likely play the piano than (she would) sing madrigals.

comparative clause of (49b), then contraction is permitted If Comparative Ellipsis (CE) has not applied to delete she would in the

(50) She'd more likely play the piano than she'd sing madrigals

Unless (49b) and (50) are derived through permutation of the AP more likely,

^[6] The lack of a P reading in (44b), (46b) and (48b) is accounted for in the discussion immediately preceding examples (51).

contraction should be blocked in (50). So, permutation must have occurred in from which x much had been deleted. This would predict, falsely, that for the existence of a rule of AP Permutation. (49b) and (50). This provides evidence, independent of rather comparatives, the underlined contraction in (50) would (in Bresnan's theory) precede the site

(42) would behave quite differently. constraints similar to those on QP Permutation, while a rule to move rather in will be to show that a rule that moves rather in (44), (45), and (47) obeys expect them to observe the same constraints. The form of our argument, then, accomplishes this AP movement is the same rule that moves QPs in sentences like (35). If QP Permutation and AP Permutation are the same rule, we would (42), under the dominant P reading of that sentence, and (ii) that the rule that this rule has applied to move rather in (44b, c), (45b), and (47b), but not in Having established that AP Permutation exists, we will now argue (i) that

another. But the examples in (52), with no auxiliaries present, have no such readings: P readings, expressing the preference of the subject NP for one activity over be present in the noncomparative clause.⁷ The examples in (51), like (42), have position with a P reading. In all such cases an auxiliary (usually a modal), must Consider first sentences like (42), in which rather appears in VP-internal

- (5I) (a) He might rather wait here than go with you.
- Ξ Jane would always rather lie than face punishment
- I had rather not speak than play the fool.
- බ other mens faults.8 1675. I will rather suffer myself to be made a pack-horse than bear
- I always rather sing than dance.
- (52) (a) (b) (c) I rather always sing than dance.
- We love rather to dazzle the Multitude than consult our proper Interest. 1711.

regardless of whether there is an auxiliary present in the matrix clause: In contrast, comparative QP S-modifiers can end up in VP-internal position

[7] Sentences like (i) are not cases of P sentences with an absent than clause:

Ξ Mary rather enjoys meat.

alter the meaning of the *rather*. Instead, (i) is an example of the simple adverbial *rather* that occurs in many other places as a degree word, including before even comparative adjectives and Indeed, one would be hard put to suggest a than clause to add to (i) that would not drastically adverbs, where other comparatives are excluded:

E rather quickly, rather tail, rather more quickly (than ever before), rather taller (than I expected) (cf. *more taller)

[8] Will seems no longer to be among the modals that permit an immediately following rather to take a P reading. From example (51d), we presume that, in the 17th century, will was similar to reading (51d) had. Sentences (51d) and (52c) are, as with previous dated examples, drawn from would, might, and had in this respect, though in the absence of informants, it is hard to tell what the Oxford English Dictionary

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ંડ I (would) act more foolish than clever.

This is true also for permuted comparative APs:

(54) By the looks of you, you (would) more likely play rock than sing madrigals

verbs in the comparative clauses of (55a, b)): And the same is true for rather sentences with DOA readings (note the tensed

- (55) (a) The hermit rather ate meat continually, than abstained, as you have suggested.
- Ξ John was rather detained than (was) arrested

in the sentences of (52) and (55), but not in those of (51). such additional constraint. We conclude that the data in examples (51) hypothesis that the permutation rule has operated in (52) and (55) requires no readings (as in (52) and (55)). Clearly this constraint is ad hoc. However the generated by way of QP/AP Permutation, an extra constraint would have to matrix sentence. Consequently, if the rather comparatives in (51) were to be From (53) and (54) we conclude that, for ordinary comparatives, QP/AP through (55) provide evidence that QP/AP Permutation has transposed rather for rather sentences with P readings (as in (51)), and not for those with DOA be present in the matrix clause. Furthermore, that constraint would hold only be placed on this rule to the effect that when the AP is rather, an auxiliary must Permutation does not require the presence of an auxiliary element in the

permutation. (56a) is one such sentence, similar to (51c): another argument that P sentences with VP-internal rather do not involve Sentences in which rather co-occurs with auxiliary have, as in (51c), offer

- (56) (a) (b) I had rather eat roastbeef than choke down raw squid
- *I had eat roastbeef rather than choke down raw squid

structure. In contrast, (57a), with had rather and a DOA reading, does not block *(56b), yet allow (56a) to be generated from the same underlying from, for *(56b) is ungrammatical. Some ad hoc device would be required to If (56a) is derived via permutation of rather, it is not clear what it is derived raise this problem:

- (57) (a) (b) I had rather eaten roastbeef than choked down raw squid.
- I had eaten roastbeef rather than choked down raw squid.

grammatical. (57b), the non-permuted version corresponding to (57a) is impeccably

and permuted QPs and APs - a parallel lacking for similar P sentences. P Had rather examples also show another parallel between DOA sentences

*(58a), while DOA sentences do permit this, (58b): reading examples like (56a) do not permit rather to precede the auxiliary,

- (58) (a) *I rather had eat roastbeef than choke down raw squid
- Ξ I rather had eaten roastbeef that choked down raw squid

might be present: Furthermore, in general, permuted QPs and APs can precede an auxiliary that

- (59) (a) I more would act foolish than clever.
- Ξ I more had acted foolish than clever.
- 0 By the looks of you, you more likely would play rock than sing madrigals.
- <u>a</u> By the looks of you, you more likely (would) have played rock than (have) sung madrigals.

in P sentence (56a). Permutation has transposed rather in DOA sentences (57a) and (58b), but not reading sentences differ. As before, we take this as evidence that QP/AP parallel those on permuted QP and AP sentences, while constraints on P on sentences having VP-internal (or initial) rather, and DOA readings, developed in connection with examples (51) through (55) above: Constraints The examples (56) through (59) once again support the line of reasoning

rather. Section 2.2.4. we will present one more argument concerning permutation of VP-internal rather have rather generated in that position by the base. In permutation. We may conclude that unambiguously P-reading sentences with rather, and no independently motivated rule that would perform such a (56a), there is no independent evidence for transformational movement of involves a transformationally moved rather, just as do the DOA sentences of of prediction (i): There is reason to think that the DOA reading of (42) now provided some evidence for these claims, and demonstrated the validity minor DOA reading involved transformational movement of rather. We have reading of (42) had rather base-generated in VP-internal position, while the to prediction (i), and example (42). Above, we claimed that the dominant P (52), (55), (57a), and (58b). But in the P reading of (42), as also in (51) and At this point we should return to tie up an end that we left loose with respect

above, the application of QP/AP Permutation tends to favour the concomiworse than (35): tant application of Comparative Ellipsis (CE). Thus ?(36) was somewhat 2.2.4. Conditions on Comparative Ellipsis. As we noted in Section 2.2.1.

- (35) I'm more sad than angry.
- (36) ?I'm more sad than I'm angry.

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Permutation of ordinary comparatives. there is some interaction between the application of CE and that of QP/AP permutation of the QP in (35). We do not find (36) to be so bad, but admit that Bresnan claims that application of CE is a necessary precondition on the According to Bresnan (1973), (36) should be altogether ungrammatical.

Permutation that ordinary comparatives do. Accordingly, consider the various rules and constraints that apply in the derivation of comparatives, following examples: then they should display the same interaction between CE and QP/AP If, as we claim, rather than sentences are comparatives, and subject to the

- (60) (a) Mary was detained more often than arrested
- ਭ Mary was detained more often than she was arrested
- (61) (a) Mary was more often detained than arrested
- Ξ Mary was more often detained than she was arrested

61), CE has applied, while in the (b) examples it has not. position, while in (61) that QP has been permuted. In the (a) examples of (60, comparatives. In the sentences of (60) a QP occurs in its base-generated In (60, 61) we see the interaction between the two rules, for ordinary

compare (60b) with (61b), they find the former, in which CE has applied, results when a QP has been permuted, but CE has not been applied interaction between CE and QP/AP Permutation: reduced acceptability better than the latter, in which it has not. This just shows the previously noted Informants find both (60a) and (61a) to be good; but when asked to

Now consider the parallel case with rather than sentences9.

- (62) (a) Mary was detained rather than arrested.
- Θ Mary was detained rather than was arrested
- (63) (a) Mary was rather detained than arrested.
- Θ Mary was rather detained than was arrested.
- (63') (a) (b) Mary rather was detained than arrested
- Mary rather was detained than was arrested

comparatives of (60, 61). Most informants, asked to compare (62b) with also prefer (62a) to (63a). For this pattern of responses, it is impossible to tell (63b), prefer (62b), where CE has applied. But most of these same informants The informant data here are considerably less clear than for the ordinary

^[9] Note that the subject NP of the second clause in (62) and (63) must disappear, as is usual with rather than sentences, regardless of whether rather has been permuted:

^{*}Mary was detained rather than she was arrested. *Mary was rather detained than she was arrested

 Bresnan (1975), among others, observes that comparative clauses are syntactic islands. While it is true that rules do not usually extract NPs from comparative clauses, it is also true that NPs are often not freely extractable from a matrix clause which contains a comparative clause: (64) (a) John fries potatoes more often than Sally swims in the Gulf. (b) *What does John fry potatoes more often than Sally swims in the Gulf? (c) ?What does John fry more often than Sally swims in the Gulf? Extraction from the matrix of a comparative sentence, ?(64c), is considerably worse than extraction from the matrix of a similar adverbial clause sentence, (655) (a) John fried potatoes while Sally swam in the Gulf? (c) What did John fry potatoes while Sally swam in the Gulf? What did John fry while Sally swam in the Gulf? We do not know why the matrix clause of a comparative should thus show a tendency to insularity. But we wish to show that this insularity interacts with 	THOMAS G. DIFTERICH AND DONNA JO NAPOLI why (62b) is preferred to (63b): It could be due to the interaction between the permutation and ellipsis rules, as in (60, 61); but it could morely reflect an across-the-board rejection of permutation in these <i>rather</i> sentences. Note that these data do not disconfirm our hypothesis about the interaction of the two informants reported a pattern that does support the hypothesis. Other (63a) are both acceptable, but (62b) is better than (63b). This is the same pattern that was found for (60, 61). The data are somewhat improved for some informants by substituting (63') for (63). Such informants report (62a) and (63'a) to be nearly comparable in reported for (60, 61). In summary, the somewhat variable results we obtained from informants on (60), (61), (62), (63), and (63') tend to support the hypothesis that <i>rather than</i> and ordinary comparatives are both subject to similar interaction of AP favours the ellipsis of material from the second clause. Several informants reported the pattern predicted by this hypothesis; no informants reported the reverse of this pattern, though several produced responses that did not bear on the hypothesis one way or the other, as described above. The interaction between CE and QP/AP Permutation, noted for ordinary provides another argument that these rules have applied in the derivation of sentences such as those in (62, 63), and thus that <i>rather than</i> sentences are true comparatives.
By our hypothesis, (68a), with a tenseless verb go in the rather than clause, derives from a VP-modifying structure, while (69a), with tensed verb <i>went</i> , derives from an S-modifying source. As before, the (b) examples show extraction of an NP from the initial clause of these two structures. Once again, the data for the <i>rather than</i> cases is not quite as clear as that for ordinary comparatives. Our informants split into two groups. One group found (68a) and (69a) acceptable, and (68b) better than (69b). For this group it is easier to extract an NP from the initial clause of a tenseless <i>rather than</i> sentence than from that of a tensed sentence. For the second group, (68b) was still better than (69b), but (68a) was also better than (69a). So for this group, the difference in acceptability of the (b) examples is not necessarily due to the effects of NP extraction. These informants reported that (69b), with a tensed verb, was ungrammatical. We believe that this judgment may be an artifact of the informant situation. Some informants seem to establish a 'mental set' for tenseless <i>rather than</i> sentences; when presented with a tensed sentence, they try to give it a P reading, and reject it syntactically. Providing some discourse context sometimes helps such informants see an alternative DOA reading, which they then judge syntactically acceptable. Thompson (1972: footnote 3)	 COMPARATIVE RATHER comparatives, and that the same interaction occurs for rather than sentences, just where it would be predicted by our hypothesis that such sentences, comparatives, and derive from S- or VP-modifying structures. Consider then the following examples: (66) (a) I play Hearts more often than Bridge. (b) What card games do you play more often than Bridge? (67) (a) I more often play Hearts than Bridge. (b) What card games do you more often play than Bridge? (67) (a) I more often play Hearts than Bridge. (b) What card games do you more often play than Bridge? (c) (a) I more often play Hearts than Bridge. (b) What card games do you more often play than Bridge? (c) (a) I more often play Hearts than Bridge. (b) What card games do you more often play than Bridge? (c) (b) What card games do you more often play than Bridge? (c) (b) What card games do you more often play than Bridge? In (67a) the QP <i>more often</i> has been permuted from the base position that it occupies in (66a). As we argued above, this permutation takes place only in S-modifying structures. So (67a) can only derive from an underlying source as well as an S-modifying source. In the (b) examples above, and (67a) good, and (66b) better than (67b). Thus with an ordinary comparative, it is apparently easier to extract an NP from the matrix clause of a VP-modifying structure than from that of an S-modifying structure. Now consider some examples with rather than go to Pittsburgh. (b) Where did you stay rather than went to Pittsburgh? (c) (a) I stayed in Chicago rather than went to Pittsburgh? (b) Where did you stay rather than went to Pittsburgh?

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accept tensed rather than sentences. reports similar difficulties in getting informants to see DOA readings, and

supports our claim that rather than sentences are comparatives, and that less counterparts derive from VP-modifying structures. tensed-verb sentences derive from S-modifying structures, while their tensefying structures. This parallel behaviour with respect to NP extraction hypothesis, VP-modifying structures - than from tensed sentences - S-modirather than sentences it is easier to extract from tenseless sentences - by our VP-modifying structures than from that of S-modifying structures; and for comparatives it is easier to extract an NP from the initial clause of mants - the group that rejects (69a) - provides no evidence for or against our rather than sentences and ordinary comparatives. For this group, for ordinary hypothesis. But another group supports the predicted parallelism between (69) are similar to those reported in Section 2.2.4 .: One group of infor-The results of our informant work with the sentences of (66), (67), (68), and

account for the similar extraction behaviour that they display. difficult to find other syntactic similarities between (67) and (69) that would both come solely from S-modifying structures is rejected, then it may be different kinds of syntactic manipulations produced parallel results with respect to the possibility of NP extraction. If our hypothesis that (67) and (69) hypothesis, thus also ensuring an S-modifying structure. These two very while in (69) we simply inserted a tensed verb in the second clause - by Note that in (67) we ensured an S-modifying source by permuting a QP,

3. PROBLEMS

pointed out above), to which we have no answer. We present them here in question poses no particular threat to our analysis. The second two potentially hopes that others who work on this topic may find an explanation. The first do, depending on what the correct answers turn out to be. There are at least three major questions we encountered (beyond those already

3.1. Right Node Raising

and subordinate clauses, and this is also true for some comparative sentences. certain adverbial clauses, RNR can extract identical NPs out of the matrix or assumed to apply only to coordinate structures.¹⁰ This is not the case. For In the linguistic literature, Right Node Raising (RNR) is consistently claimed

- (70) Mary loves, although I detest, any film by Fellini.
- (71) Mary would cook, more readily than eat, turtle soup

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Likewise, RNR can apply to some rather sentences:

- (72) John boiled rather than fried his eggs John rather boiled than fried his eggs.
- (EL) John would boil rather than fry his eggs John would rather boil than fry his eggs.

discussed in Dieterich (1978)): between (74b) and *(75b), (pointed out to Dieterich by Chris Clifford, and syntactic analysis of this distinction does not predict. Consider the contrast interact with the DOA vs. P readings of rather than sentences in a way that our they do suggest that another look at RNR is in order. However RNR does The above facts pose no particular problem for our analysis of rather than;

- John boiled his eggs rather than fried them.
- (74) (a) (b) John boiled rather than fried his eggs.
- (75) (a) John boiled his eggs rather than fry them
- ਭ *John boiled rather than fry his eggs.

structure. This feature is perhaps a drawback to the suggested analysis. underlying structure, or by the presence of certain modals in an S-modifying syntactic conspiracy: P readings could be produced either by a VP-modifying sentence where the comparative clause is structurally S-modifying. If so, then possible accounts occur to us, but we cannot make a strong case for either of of (73), which, on semantic grounds at least, also have P readings? Two in the minimally contrasting DOA sentence (74b), and good in the sentences Why should RNR be blocked in the P-reading sentence *(75b), when it is good proposal would make what we have been calling the 'P reading' a product of a (73) and (74)), and blocks with the VP-modifying structure in (75). This perhaps RNR is associated with S-modifying comparative structures (as in them. First, perhaps the modal would in (73) produces a P reading in a

some sense. What it means to 'match' depends on the specific category C. For of category C, both C elements (preceding and following) must 'match' in categories other than C, and when rather than is preceded by a word or words and *(75): the latter sentence might be bad because the sequence boiled rather verbs, the inflection must match. Note that the matching requirement would followed by only one node of category C which does not branch to major parallelism would include at least the following condition: when rather than is than fry violates some sort of 'parallelism' requirement. This required lems from ours, her suggestions could perhaps be extended to apply to (74b) inappropriate examples'. While Abbott was concerned with different probfactors. Abbott (1976: 641) claims that some RNR sentences are bad due to 'factors that make processing difficult or that produce clumsy and stylistically Another possible account of the contrast in (74, 75) is based on stylistic

^[10] See Ross (1967), Bresnan (1974), Hankamer (1971), Postal (1974), Abbott (1976), among many others.

object of some v	explanation for the data in $(77, 78)$ may be found
(ii) I'll man	structures that we have previously motivated for without the planner. This
Note that a pro	rainer than clauses makes the wrong prediction in this particular case. We
(i) I'll marr	are reversed. Thus our hypothesis about the source of tensed vs. untensed
be something li	VP-modifying comparatives. In this one case of clause fronting, these parallels
matrix and con	S-modifying ordinary comparatives, while tenseless-verb clauses acted like
[11] There is some	cases we examined previously, tensed-verb rather than clauses acted like
	about the source of tensed vs. tenseless rather than sentences. In the several
(– just the structure that resists fronting in *(77a), under our major hypothesis
Other argun	Unfortunately, this is the reading associated with the S-modifying structure
asked to read	
who were not	(78) ?More than (I'm) angry. I'm sad.
(81) is a quote a	sentence seems to have only the 'more like sadness' reading:
	comparative clause of (33), but insofar as it is possible to do so, the resulting
than t	reading with an S-modifying structure (41). It is somewhat difficult to front the
killed.	this sentence with a VP-modifying structure (Ao), and the 'more like sadness'
inciud	Hollowing Resonant (1999) and House Real the (for a second s
decisio	(33) I'm sad more than (I'm) angry.
ldns I (18)	sentence of (33):
oreital entress	what differently when we try to front them. Recall the ambiguous comparative
overtly express	VP-modifying comparatives, for ordinary comparative clauses behave some-
an S. Howeve	contrast in (77) in terms of our present analysis of rather than clauses as S- or
proposed that i	from a distinct (co-ordinate clause) structure. It is difficult to explain the
Given the ten	then clauses are adverbial subordinates, while their tensed counterparts derive
I spille	These data were one hosis for Distanishin (1000) dains that interest with a
(80) I sang	<u>و</u>
surface:	(77) (a) *Rather than boils his potatoes, John fries them.
	while unleased ones can:
noreferential w	Thompson (1972) noticed that tensed <i>rather than</i> clauses cannot be fronted,
	3.2. Clause fronting
((79c) is a live e	
га	for the contrast between $(74b)$ and $*(75b)$ must ultimately be found.
	We leave these sketchy proposals inoting that some convincing evaluation
(73) (b) I'l	Here both verbs must be interpreted with matching inflection (in this case, third nerson plural present)
(70) (a) Is	
the matrix subj	(76) The boys boil rather than fry their eggs.
Rather sentence	reading:
an Abcont sul	be a morphological, not a phonological one. Thus (76) has only a DOA
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bject:11 ubject ces can have a comparative clause subject that is distinct from

- saw John rather than he saw me
- 'll marry Bill rather than my daughter marry him.
- ather than everyone just sit (we could discuss it now). had a topic that I was going to bring up during the meeting, and

example collected at a conference (not a linguistics conference),

with the matrix subject, it customarily does not appear on the when the subject of a rather than clause is understood as

g rather than (*I) danced

led the beans rather than (*I/*me) be tortured

ssed: cur examples of rather than sentences with identical subjects ndency towards subjectlessness displayed in (80), it might be er, there are several arguments against this proposal. There the material following rather than is base-generated as a VP, not

it would still be a problem, because it is still human beings being ding the killing of innocents. Even if it were just the guilty on one ion to go to war, you have agreed to take all the risks of war, they die. 1. Whether you like them or not, it is better that they live rather pose people do worry. But once you have made the major

- Washington Post, 2/25/79.

t previously acquainted with our interest in rather than, when attributed to Julius Nyerere, President of Tanzania. Informants this passage, found nothing wrong with it at all.

ments against the base-VP proposal present themselves. First,

rry Bill rather than let/have my daughter marry him

conominal version of (i) would have an accusative pronoun, not a nominative:

rry Bill rather than her/*she marry him

In (ii) the pronoun, the logical subject of *marry*, appears to have been raised to a position as object of some verb that does not appear on the surface; a reasonable candidate would be the *let* or have of (i).

explanation for the data in (77, 78) may be found.

ne question as to whether these examples actually have distinct subjects in the mparative clauses. An alternative proposal for the sentences of (79) might be to om sources with a deleted causative verb in the *than* clause. For (79b) this would

DOA sentences, as illustrated by many previous examples, undergo subjectverb agreement, most easily and naturally stated if the subject appears at some underlying level. Second, both DOA and P sentences allow quantifiers which have scope over the subject:

- (82) (a) We both sang rather than both danced.
- (b) We chose to follow different careers rather than both become doctors.

It has been argued (e.g. by Postal, 1976), that quantifiers such as these have floated off a subject NP. In (82b), *both* could have floated off the matrix subject, but in (82a), with two *boths*, the Q-Float rule would have to perform a quantifier distribution – previously unattested – unless there was an underlying embedded subject for the second *both* to have floated off of. Third, *than* elsewhere introduces only an S or an NP (see Hankamer, 1973). Thus, a VP following *rather than* would require an *ad hoc* complication of the subcategorization restrictions for *than*, or alternatively would require us to recognize a new *than*, distinct from that which occurs in ordinary comparatives. Fourth, the subjectless examples of (80) would have to have drastically different deep structures from the sentences in (79) and (81), where overt subjects appear, in spite of their semantic and syntactic behaviour similarities. A fifth argument presents itself in a theory in which auxiliaries are directly dominated by S, rather than being a part of a VP; *rather than* sentences allow auxiliaries associated with the verb in the expression following *than*:

(83) He was still in school at that time, rather than had already graduated, as you claim.

And even when no auxiliary appears, the verb of the *than* expression sometimes shows evidence of a deleted auxiliary:

(84) They would have died rather than refused. They would rather have died than refused.

The participial inflection of *refused* in (84) is the result of affix hopping from a perfective auxiliary. If the auxiliary is directly dominated by S, rather than by VP, then these examples provide further evidence that the material following

rather than is dominated by a base-generated S node. These arguments provide considerable support for the position that *rather than* expressions are derived from underlying clause via a rule that deletes an identical subject NP from the *than* clause. Judging by the relative frequency of subjectless vs. subject-containing *rather than* expressions, this rule is strongly preferred, and seems to be obligatory in many cases, such as those of (80). The existence of and strong preference for this subject deleting rule marks a difference between *rather than* comparatives and ordinary ones, as was noted in Section 1.1. above. This rule does not seem to have been previously

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motivated, independently of *rather than* clauses. But note that the rule does operate outside of *rather than* sentences, for example with *instead of*:

(85) Mary seduced Bill instead of (*she) was seduced by him. Mary seduced Bill instead of (*she/*her)being seduced by him. (cf. example (ii) footnote 11).

and also with sooner than comparative clauses with tenseless verb:

(86) Mary seduced Bill sooner than (*she/*her) be seduced by him.

Contrast (86) to (87), in which we have a purely temporal (as opposed to a preference) reading of *sooner than*, and in which the subject NP alone cannot be deleted:

(87) John has to pick up his son sooner than (he/* \emptyset has to pick up) his wife.

We have no explanation for why *rather than* comparatives (and the *sooner than* and *instead of* sentences that pattern with them), permit or require deletion of the subject NP from the embedded clause, when ordinary comparatives do not. This is another problem for further investigation.

4. SEMANTICS OF RATHER THAN, AND LOGICAL CONNECTIVES IN NATURAL LANGUAGE

The semantics of untensed P-reading rather than sentences involves a propositional attitude connection between the two clauses: one of the truth conditions on a sentence of the form p rather than q (with untensed verb in q), is that the subject of p intends p to eliminate the possibility of q (see Thompson, 1972: 242). As Thompson points out, this intention condition would explain the strangeness of the sentence:

(88) It rained rather than snow.

(88) is semantically anomalous because it is impossible to construe the dummy subject *it* as 'intending' anything. As further evidence, negation and modal conditions characteristically operate on the intention condition between the two clauses of a P sentence:

- (89) (a) Possibly, Mary seduced John rather than be seduced by him.
- (b) Mary didn't seduce John rather than be seduced by him.

In (89a), *possibly* can be taken to have scope over the entire sentence, and in this case the possibility attaches not to the truth or falsity of either clause, but to the intention relation between them: Mary's reasons for seduction might have been to avoid being seduced. Similarly, (89b) denies that Mary's

intention was to avoid seduction: it would be perfectly reasonable to continue (89b) as follows:

(90) Mary didn't seduce John rather than be seduced by him, in fact he wasn't interested at all before she made her move.

Very different semantically are tensed, DOA-reading *rather than* sentences. The sentence (91) asserts that Harry walked, and denies a previous assertion that he drove:

(91) Harry walked to work rather than drove.

If (91) has the form *p* rather than *q*, it is true just in case *p* is true and *q* false.¹² Thus (91) and other tensed, DOA rather than sentences would appear to be truth-functional sentences, corresponding to the truth table for $p \land \sim q$:



If this is true, then rather than, with a tensed verb in the second clause, would be a lexicalization of the logical connective 'and not'.

This fact is of particular interest in light of Gazdar and Pullum's (1976: 230) claim that 'only three definable truth functional connectives are admissible as lexical items in natural languages'. The three connectives that their constraints permit are 'and', 'inclusive or', and 'exclusive or'. 'And not' should be excluded according to Gazdar and Pullum, because it fails their test of commutativity. That is, $p \land \sim q$ has a different truth table from $q \land \sim p$.

Gazdar and Pullum consider and reject another lexical candidate for 'and not', namely *without*. They reject *without* as a logical connective on the grounds that 'the syntactic properties of *without* show it to be nothing like a co-ordinating word linking sentences at equal rank. It is very clearly a subordinating predicate, making one sentence part of the predicate of another' (p. 221). In contrast, recall that the syntactic evidence of this paper has shown that *rather than* does not subordinate a tensed clause to the predicate of the preceding clause. Furthermore, without claiming that tensed-clause *rather than* is a co-ordinating word, we can show that it passes

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all the syntactic tests that Gazdar and Pullum use to reject *without* as a logical connective. These tests are three: first, *'without* cannot permit tense in the clause it introduces'; as we have seen, DOA *rather than* does. Second, *'without* defines a context in which Equi-NP Deletion may apply, giving evidence that it introduces a subordinate clause'. *Rather than* clauses also lose their subjects, but there is no evidence that this is the result of Equi. Equi does not operate in other comparative clause contexts, and never does Equi leave a tensed verb following the subject NP that it deletes. Third, 'in a true co-ordinate structure the constituents can take negation independently, but the negation in a *without*-clause is within the scope of negation (or any other operator) on the main clause' (all quotes, p. 221). Gazdar and Pullum's examples of the effects of negation are these:

- (92) (a) The bomb wasn't tested, and the earth wasn't destroyed. [G & P (5e)]
- (b) ?*The bomb wasn't tested, without the earth being destroyed. [G & P (5f)]

Like 'and not' of (92a), tensed *rather than* clauses can take negation independently in either clause:

(93) He didn't even enroll in the course, rather than didn't pass it, as you charged.

And unlike *without* in (92b), a negative in the initial clause does not extend its scope into a tensed *rather than* clause.

(94) He didn't even enroll in the course, rather than failed it, as you charged.

(92b), insofar as we can interpret it, would be true in case the bomb *was* tested and the earth *was* destroyed; that is, the negation in the first clause affects the connection between the two clauses. (94), in contrast, would certainly not be true if he did enroll and did fail – just the reverse; thus in (94) the negation in the first clause affects only the first clause, not the denial of the proposition in the second clause. So Gazdar and Pullum's syntactic tests do not rule DOA *rather than* out of consideration, and in view of the apparent truth functionality of tensed *rather than* sentences, we must recognize this form as a viable natural language candidate for the logical connective 'and not'.

If the connective 'and not' is thus lexically represented in English, then this in turn casts doubt on Gazdar and Pullum's commutativity test, which rules out the possibility of 'and not' being so represented. Gazdar and Pullum base their commutativity condition on the assumption that linear order cannot be represented in underlying structure. Thus the evidence of tensed *rather than* sentences damages the contention that linear order cannot be represented underlyingly. Since this assumption is basic to various approaches to syntax, including relational grammar (as represented in Perlmutter and Postal (1978),

^[12] There does seem to be a presupposition, or conventional implicature in the sense of Karttunen and Peters (1975), attached to such sentences. This condition has to do with the preceding content of the conversation in which the *rather than* sentence occurs: (91) can only be uttered in case someone has previously asserted or assumed that Harry drove to work. Such presuppositions are best stated as felicity conditions on the use of a sentence, independent of its truth value. Thus the presence of this 'prior assertion' condition does not affect our contention about the truth-functionality of these sentences.

difference. This question deserves the attention of students of syntactic particular meaning distinction should arise from this particular syntactic meaning-changing transformation. However, it is not clear to us why this meaning difference, and avoided the necessity for Thompson's proposed syntactic differences. Thus in answer to Thompson's (1972: 249) challenge, we cussed the semantic distinction (DOA vs. P readings), that attaches to these argued, derive from S-modifying comparative structures, while those with 6. Some questions for further study one that looks like a comparative adjective. altogether - accompanied by the disappearance of all forms other than the actually be ambiguous between temporal and preference readings (which in function, and of the relation between syntax and semantics. have motivated underlying structural differences corresponding to this tenseless-verb clauses derive from VP-modifying structures. We have disfor rather than sentences. Sentences with tensed-verb comparative clauses, we temporal words like early and before did not, is a mystery to us. addition show syntactic differences); and rather loses the temporal meaning become conventionalized for certain lexical items, so that, e.g., sooner may occurrence of x to the occurrence of y. In time, this implicature seems to have would do x at a time preceding the occurrence of y, then maybe I prefer the express temporal relationships as to express a preference relationship; has an 'in place of' (DOA), or 'instead of' (P) sense, is not really suprising. 'n approaches, which they must address We have motivated a syntactic distinction/between two underlying structures English (and other languages, such as Italian), often use the same word to temporal meaning of 'soon', 'quick', or 'early', and that the present day rather The fact that at an older stage of English there was an adverb rath(e) with a for example, our rather than data pose a challenge to the adequacy of such (9<u>5</u>) Why soon and rath(e) conventionalized a 'preference' meaning when other This is perhaps the result of an implicature along the following lines: if I CONVENTIONALIZATION, AND SYNTACTIC AND SEMANTIC CHANGE ?I'd die quicker than I'd surrender. I'd die before I'd surrender I'd die more readily than I'd surrender I'd die sooner than surrender. THOMAS G. DIETERICH AND DONNA JO NAPOLI 7. CONCLUSION underlying structure. mimeo. University, New Haven. (97) (a) 3 ٥ – Rather!

behaviour of druthers; Some less sweeping topics for further study include the origin and syntactic

(96) If I had my druthers, we'd nationalize the oil companies

COMPARATIVE RATHER

adverbial rather, meaning 'somewhat': And the relationship between rather before comparative clauses, and the

I rather like her.

She's rather wonderful

– Do you like him?

an S-modifier, while tenseless forms, with P readings, derive from VP-modifywith DOA readings, come from structures in which the comparative clause is clause, have the underlying form of comparative sentences. The tensed forms, raising a challenge for theories that cannot represent linear order in representing the truth-functional connective 'and not', contradicting the claim Subject/Verb agreement rule, but from an underlying structural difference. clearly in an example like (8), arises not from optional application of a that this connective cannot be represented lexically in natural language, and Rather than preceding a tensed clause was seen to be a good candidate for ing comparative structures. The DOA/P meaning distinction, as seen most Rather than sentences, either with tensed or untensed verb in the second

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