Arguments against Hurford's 'Aux Copying Rule'*

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Hurford (1975) has claimed that children's mistakes of the form what's that is?, whose is that is?, and what did you bought? in the early stages of language acquisition are the result of the child having internalized an imperfect version of an adult rule. Hurford reports that his daughter frequently asked questions such as the following from 1; 10 to 2; 6:

What's that is? What did you did?
What's this is? Did you came home?
Whose is that is? What did you found?
What did you bought?

Hurford wishes to account for these errors by postulating that the child has internalized an inaccurate version of an adult rule, so that instead of 'moving the tense marker, plus sometimes another Auxiliary element, from one position in a sentence to another, the child's grammar copies the elements from one position to another, leaving the originals intact (300)'. On the basis of this claim, he suggests that the young child who makes errors such as what is you is doing? has an 'Aux Copying Rule' of the following form:

$$\begin{array}{c} \text{NP-Tense} \; \left\{ \begin{array}{c} \text{Modal} \\ \text{have} \\ \text{be} \end{array} \right\} \; -\text{X} \\ \\ \text{I} \quad \text{2} \qquad \qquad \text{3} \qquad =>2 \; \; \text{I} \; \; \text{2} \; \; \text{3} \\ \end{array}$$

In an investigation of the development of modal and temporal referencing in the course of language acquisition, I have observed errors which suggest that Hurford's notion of an 'Aux Copying Rule' is unjustified. Some of the errors I observed are consistent with his notion of an 'Aux Copying Rule'.

I Is it's Stan's radio? (N.E., 2; 6)
What's he's wearing on his neck? (A.K., 2; 7)
Did we ate...? (N.E., 2; 5)
Did Chris got...? (N.E., 2; 5)

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Did he broke...? (N.E., 2; 5)
Did we left...? (N.E., 2; 5)
Did we bought...? (N.E., 2; 5)
What did I told? (I.B., 3; 1)
Don't he wanted to help somebody? (H.K., 3; 6)
What did she bought you? (H.K., 3; 6)
Did you bought those? (V.Q., 3; 6)

However, the following errors are not explainable by recourse to an 'Aux Copying Rule':

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What's was that? (M.Z., 2;6) What are you did? (V.Q., 3;7) Can you broke those? (A.K., 3;0)

If the 'Aux Copying Rule' was being consistently applied by the above three children (two of whom did produce errors consistent with the hypothesized rule), one would have expected the utterances in II to have the following forms:

What was that was?

What did you did?

Can you can broke those? or Could you could broke those? or Could you broke those?

These errors, which are inconsistent with the 'Aux Copying Rule', coupled with other related errors and some consideration of what it means to say that a child has internalized a rule, demonstrate that Hurford's notion of an 'Aux Copying Rule' is wrong, and that such errors are the result of a phenomenon quite distinct from that of internalizing an incorrect rule. Consider the following errors:

III

I like listen to who's is on this tape. (M.Z., 2;6)
That's makes a truck. (N.E., 2;5)
He's do take his, take his clean pants off. ('he took his...', M.Z., 2;6)
I'm want some dinner. (M.Z., 2;6)
It's don't have any oil in here. (M. Z., 2;6)
What's happen with Santa Claus? ('what happened to...', M.Z., 2;6)
It's looks like a bus. (M.Z., 2;6)

That's are pretty ladies, aren't they? (V.Q., 3;7) It's have two. ('it has two', V.Q., 3;7) I think it's have a pile. (V.Q., 3;7) Know what's this? (A.K., 2;11) I thought so 'cept they're weren't. (A.K., 3;1) That's means 'get hawks'. (A.K., 3;4)

is instead simply using what's as a variant of what. one position to another when he produces a sentence such as what's this is? but as he+is, it+is, what+is, etc. If the child has in fact failed to properly analyse nunciation forms of their counterparts (e.g. what, who). If this is the case, then are also initially produced in an unanalysed fashion and are alternate proequivalent to that is and it is) and as such are alternate pronunciation choices young child, forms like that's and it's are unanalysed entities (i.e. they are not morpheme, rather than as two distinct constituents. In other words, for the 1973: 265). Because of this difficulty children treat that and that's (Miller & essentially continuous stream of speech into morphemes and words' (Brown that young children experience difficulty in segmentation, 'the breaking up of the Brown (1973), Brown et al. (1969), and Miller & Ervin (1964) have all suggested are probably a result of the child's difficulty with segmenting the speech stream. Brown, Cazden & Bellugi 1969, Menyuk 1963, 1969, 1971, Miller & Ervin 1964). errors of the type found in III are well documented in the literature (Brown 1973. has not analysed what's as what + is is not copying the auxiliary elements from the forms, there is no need to postulate an 'Aux Copying Rule'. The child who the fact that children have failed to analyse forms such as he's, it's, what's, etc. formulated an incorrect version of an adult rule. Instead, these errors are due to Hurford errs when he suggests that such errors are due to the child having for that and it, respectively. It seems likely that forms such as what's and who's Ervin) and it and it's (Brown et al.), respectively, as allomorphs of a single Some of these errors may be due to the child's lack of knowledge concerning restrictions on certain syntactic forms co-occurring, but the majority of the errors Although Hurford does not tell us if his daughter made errors such as these,

What, though, can be said about utterances such as whose is that is? and what did you bought? Such errors cannot be said to occur as the result of segmentation errors, so perhaps Hurford's analysis holds up here. Menyuk (1969) has reported similar types of errors in the children she studied (e.g. is this is the powder?, how can he can look?), so these types of errors, though rare, do seem to be a characteristic of the acquisition of English.

Is an 'Aux Copying Rule' needed to explain these errors? Consider the following crors:

That what's the witch says to her brother. (A.K., 3; 4)

^[1] Michael Maratsos has pointed out that it is unlikely that forms such as its and whats are totally unanalysed even for the very young child. If such was the case, one would expect to observe many more errors and many more types of errors (e.g. what's you will eat') than are found in young children's spontaneous speech. Such forms, then, are not completely unanalysed by the young child, but are rather partially unanalysed. This still means that forms such as its may not mean it + is to the young child (i.e. that such forms are not analysed by the child to contain a variant of be), which maintains the force of the above argument.

The plant didn't cried. (A.K., 2;5) I didn't got... (G.D., 3; 11) Don't stuck me. (V.Q., 3;6) 'Cept you didn't started it, so I started it. (A.K., 3; 1) They didn't spilled. (A.K., 3;0) I didn't saw that. (A.K., 2;9) This don't had a map. (A.K., 2; 8) It don't hurts. (A.K., 2;8) You don't has much money. (A.B., 5;0) It didn't has any. (A.B., 5;0) She didn't goed ... (G.D., 3; 11) They wouldn't haved a house. (V.Q., 3; 6) You didn't had some. (I.B., 3; 1) I did fell when I got blood. (M.Z., 2;5)

redundant because they have not learned not to do so or because they do not have ing difficulties or because of not knowing that to be redundant is to err in so accounted for by assuming that the child has been redundant because of processirregular past tense forms as syntactically past. Again, such utterances may be redundant in terms of the past tense for children who have analysed the particular the young child, and utterances involving did and an irregular past tense form are a regular past tense verb probably do redundantly express the past tense even for past tense verb forms as syntactically past. Still, utterances involving did and redundantly express the past tense, since the young child may not code irregular forms involving did and an irregular past tense verb (what did you found?) account of adult English). Moreover, it is not even necessary to assume that This is certainly not isomorphic with stating that children have acquired an the processing skills necessary to prevent unnecessary repetition of auxiliary forms Copying Rule', and can be explained by assuming that the children are being rather than interrogatives. These errors, then, are out of the domain of the 'Aux having created an 'Aux Copying Rule', but occur in declarative sentences Many of these errors are of the same type as those supposedly due to the child? far as auxiliary verbs are concerned imperfect' rule (imperfect from the point of view of a transformational grammar

declarative forms. In addition to the error data, Hurford's notion of a rule analysis for interrogatives and looking elsewhere for the cause of the deviant in both declaratives and interrogatives, as opposed to accepting Hurford's it is parsimonious to assume that the same variables produce the deviant forms existence of the rule to be hypothesized for which the rule cannot account, and an 'Aux Copying Rule'. There are errors of the same type which caused the I believe that the above data invalidate Hurford's claim that children acquire

> due to other factors, particularly segmentation problems (in comprehension) and similar findings. Children who make errors like those reported by Hurford also processing limitations (in production). a rule such as that postulated by Hurford. Instead, it seems that such errors are incorrect versions), which is strong evidence that they have not internalized Brown (1973), Menyuk (1963, 1969, 1971), and Wall (1974) have reported eating, what you did eat?, where you going?) with the same construction types. the same construction types and/or produced different types of errors (e.g. I she had internalized. However, the children I observed who produced the whether she only produced utterances consistent with the rule Hurford suggested buy?) during this same time period. Thus, one cannot decide with certainty or other types of incorrect forms (e.g. what that?, what you bought?, what you did akin to those discussed by Labov (1969), which Hurford's 'Aux Copying Rule' or acquired suddenly) to consistently produce utterances which are in accordance produce other variations of the same construction-type(s) (both correct and incorrect utterances cited earlier, also frequently produced correct utterances of also produced correct forms (e.g. what's that?, what is that?, what did you buy?) and what did you bought?, but provides no information about whether or not she is not). Hurford reports that his daughter produced forms like what's that is? with the rule but no utterances which violate the rule (unless it is a variable rule child who has internalized a rule (ignoring whether the rule was slowly constructed create rules gradually. Of more concern for this discussion, one would expect the proved to be the case. Children do not seem to acquire rules suddenly, but sudden acquisition of the rule to be manifested in performance. Such has not would expect each particular rule to be acquired quite abruptly and for this Brown (1973) has pointed out that if the child is acquiring categorical rules, one argument centres on what it means to say that a child has internalized a rule. encounters another problem which I believe renders it unacceptable. The

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