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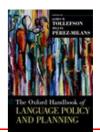
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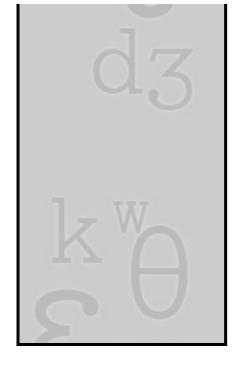


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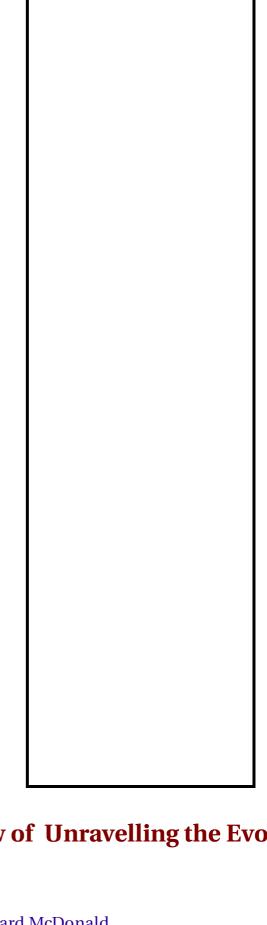




Meaning and Linguistic Variation

By Penelope Eckert

Meaning and Linguistic
Variation "examines the
development of the study of
sociolinguistic variation,
from early demographic
studies to a focus on the
construction of social
meaning in stylistic
practice."



Review of Unravelling the Evo

Reviewer: Edward McDonald

Book Title: <u>Unravelling the Evolution of Language</u>

Book Author: Rudolf Botha Publisher: Elsevier Ltd

Linguistic Field(s): Linguistic Theories

Anthropological Linguistics

Issue Number: <u>16.1497</u>

Review:

Date: Tue, 10 May 2005 23:35:46 +0800 (CST)

From: Edward McDonald

Subject: Unravelling the Evolution of Language

AUTHOR: Botha, Rudolf P.

TITLE: Unravelling the Evolution of Language

SERIES: Language & Communication Library Vol. 19

PUBLISHER: Elsevier Science Ltd

YEAR: 2003

Edward McDonald, China Central Television Internat

INTRODUCTION

Rudolf Botha has set himself a difficult challenge. In tl dense volume he sets out to shed some light on curre the evolution of language. Focusing on a decade of de interdisciplinary journal Behavioral and Brain Science forums both print and oral in the 1990s, he attempts to terminology, disentangle preconceptions and pin dov being made by various competing theoretical propose he reveals is one of considerable conceptual confusio the "entities" nor the "processes" involved in languag topics of Parts I and II of the book respectively -- is th consensus. And as for the status of "evidence and argu the specific topic of Part III but which Botha documen throughout the book -- none of the participants in the shown to be even anywhere near the "restrictive theo: claims would be necessary for making genuine progre problems.

SUMMARY

Botha's account starts with what he calls the "core find study. Contrary to what might be thought to be the ma language evolution studies, i.e. "a paucity of factual e claims instead that "[t]he main obstacle to gaining a b understanding of central aspects of the evolution of la poverty of restrictive theory." (p.7) He defines a "restr a "theory T of something... S... which makes it possible in a non-arbitrary way between S and things whose pi match those of S in respects that matter" (p.7). In relat problem of language evolution, such a theory will pro characterizations" of a number of things: the entities a involved in language evolution, the correlations betw linguistic entities and related developments such as in and cognitive abilities, the evidence -- including indir language evolution, and the status of arguments put f language evolution (p.8).

Part I of the book examines the debates over language identify the "entities" involved in language evolution see how the different participants define the entity that

have evolved into language and what they see as prec situation Botha characterizes as one of "terminologica (p.13) "the entity whose evolution is believed to be at these debates, covers at least the following wide range (p.45):

- (a) "language as hard-wired competence",
- (b) "language as speech",
- (c) "language as an activity",
- (d) "language as a sort of contract signed by members community", and
- (e) "language as syntax".

In order to make sense out of this conceptual confusion founded linguistic ontology" is needed, in other word which "unambiguously identifies and restrictively chartollowing things (p.44):

- (a) the basic linguistic entities -- objects, states, events and so on -- that occur in linguistic reality,
- (b) the distinctive properties of those entities, and
- (c) the ways in which those entities are interrelated.

Part II moves on to the processes of language evolution was that the entity or entities, however defined, evolve would now characterize as human language, again ho Here again there are a range of possibilities which have forward with analogies to different kinds of physical e optation or exaptation -- as in the evolution of the sna chamber; preadaptation -- as in the evolution of birds natural selection -- as in the evolution of the vertebra model is associated with the work of Stephen Jay Gou in which he argues for a type of adaptation he calls "e defined as "fitness enhancing characters... that enhance their present role but... were not built for this role... by selection" (p.51). An example would be the snail's bro which arose "as a by-product of a biological process of a tube around an axis" (p.49). On this argument, also speculatively by Chomsky, the evolution of language as an exaptation of changes in brain structure. (p.56).

The preadaptation model has been put forward by Ph (1991), on the analogy of the evolution of bird's feath having first developed as "adaptations for insulation" (ex-apted in Gould's terms) for insect catching, and th further adapted by natural selection for prey-catching for flight" (p.67). How this model applies in the case o explained by Lieberman as follows (p. 68, Lieberman "The brain mechanisms that control speech productic derived from ones that facilitated precise one-handec Through a series of perhaps chance events they event allow us to learn and use the complex rules that government language."

The natural selection model is put forward by Pinker (1990), drawing on arguments give by Darwin for the

slow stages of a "complex design for an adaptive func vertebrate eye (p.93). Pinker and Bloom argue as follo also having evolved in this way (p.94):

"... human language, like other specialized biological by natural selection. Our conclusion is based on two f would think would be entirely uncontroversial: Langu of complex design for the communication of preposit and the only explanation for the origin of organs with is the process of natural selection."

After detailed discussion of these different models and that have been made of them, Bloom draws the follow conclusion (p. 115):

"The characterizations used in some of the most detai accounts of the processes by which language is claime evolved are ad hoc and arbitrary in various ways... .The these characterizations has its main cause in the fact to informal assumptions about evolution which do not a general theory of evolution that is restrictive enough a founded... Accounts of the processes by which language linguistic entities evolved will remain as ad hoc and a are at present, unless their informal foundational assumption is about are replaced by restrictive theories preadaptation or exaptation, and adaptation."

Part III returns to the various arguments examined in critiques them as arguments, from the point of view o (pp 121-140), their use of indirect evidence (pp 141-15 plausible evolutionary stories or "just-so stories" (pp what Botha politely terms "non-empirical argumentatice. rhetorical sleights of hand. In summing up the statargumentation on this topic, Botha restates his "core-

"... poverty of restrictive theory is... the root cause of the involved in identifying what linguistic entities were affected evolution, in discovering by what processes these entand ensuring that accounts of language evolution have scientific substance."

CRITICAL EVALUATION

Professor Botha's book is not an easy read. Partly bec complexity of the subject matter, but also because of t even "meta-meta" nature of its argument, which atten compare different theories of language evolution but measure up as scientific theories. Given the range of t he covers, and the critical acuity with which he lays be inadequacies, his conclusion is oddly unambitious ar disappointing:

"... to arrive at a better understanding of what the evol language involved, we would need to make substantideveloping restrictive theories of the kinds touched o (p.202)

I have two "explanations" for my disappointment, on speculative, the other which takes a historical perspec topic. To air the speculative one first, I wonder whether succeed at the task Botha has set himself without at th putting forward a theoretical proposal oneself. If we ta instrumental view of theory, in other words that a the unavoidably shaped -- and restricted -- by what it sets theories are usable and useful for particular purposes point in asking whether they are "true" or not, or ever they are true. Thus the fact that Botha's meta-theorising particular stance in relation to the subject matter of la evolution, apart from evaluating the different theories put forward to explain it, seems to render his account rudderless. At the end of this 200 page book filled with discussion, I felt more informed certainly, but no mor enlightened about the basic issues involved than whe

My second, historical, explanation relates to the type of Botha both critiques and calls on in his critique. It see despite being the author of trenchant critiques of Cho linguistics (Botha 1981, 1989), the linguistic universe l this book remains firmly circumscribed by Chomskya This is problematic on two counts. Firstly it means that language meaning is largely sidelined in favour of lar not only in the work of the scholars Botha critiques, b argument. The second is that Chomsky's own pronou language evolution, a topic which admittedly he most from, seem negative at best and oracular at worst. The Botha quotes from Chomsky's opinions on language across to this reader as highly-crafted pieces of rhetor vague possibilities without committing themselves to For these pronouncements to form the baseline of a c language evolution, as in effect they do in Botha's boo condemn the argument to circle around the main issu really coming to grips with them.

Looked at even from the relatively narrow perspective century linguistics, formal linguistics -- to give it the n characterization -- has several striking features which particularly unsuited for the sort of project treated in features may not stand out for many of the participan on language evolution, from both within and outside whom formal linguistics has become something like (The work of the late Charles Hockett provides a saluta on this tradition, coming as it does from one whose ca the high point of the previous (neo-)Bloomfieldian tra American linguistics in the 1940s and what was argual point of the Chomskyan tradition in the late 1960s. Ho work The State of the Art provides a devastatingly insi the philosophical bases of formal linguistics by a scho well -- and indeed helped shape -- the previous devel in part extended and in part reacted against. And twen his call for Refurbishing Our Foundations (Hockett 19

call for some serious reevaluation of the basic assumply whole discipline from one who spent a professional large on both its achievements and its blind alleys.

While I can do no better than recommend all the parti language evolution debate to read these two short an readable monographs, the issues may become cleare: away from language for a moment and consider the to evolution of music. A collection of papers of much the the ones Botha considers, The Origins of Music (Walli provides an interesting sidelight on the topic of langu with many of the papers in this collection -- e.g. Bicket specifically comparing the two; Brown (2000) actually combined "musi-language" evolutionary model for b music. Many of these discussions specifically refer to influential generative model of music (Lerdahl & Jack which demonstrates with admirable clarity both the a disadvantages of the formalist tradition. A forthcomin own (McDonald in press) critiques this model, and by formalist models, as setting up a number of dichotom of each dichotomy assigned to the uninteresting or th mental vs. material psychological vs. social structure vs. meaning system vs. text

What this leaves us with, in relation to the exploration music or language, are models in which the main aim in effect, pattern recognition, with little or no cognizar of how structural patterns relate to their expressive manner.

In essence I would see the same criticism as applying arguments discussed in Botha's book. It is important these are in fact arbitrary choices of one side over and dichotomies more usefully seen as complementaritie decision to see them as dichotomies is to a great exterparticular historical circumstances in which formal lir (see Hockett 1968, Ch.1). And the fact that this tradition is mostly unselfconscious about its own historical prethat it largely remains locked within the assumptions

This unselfconsciousness often also extends to forma awareness of their own theories as theories, in other vabove, tools developed for specific purposes. This me of the arguments documented by Botha turn on a part divergence in the theories held by specific participant whether one holds to the "modular" Government & B formal linguistics or the simpler "Minimalist Program the implication that such claims need to be rethought with even minor changes in the model, from an intercof view, they operate on far too specific a level. It show possible for linguistics to be useful and enlightening i extra-linguistic questions in terms of the overall concolanguage rather than in the minor details of a particul

So all in all, the picture of scholarship on the evolutio shown in this book is a rather depressing one. Some serious "refurbishing of our foundations" in Hockett's greater appreciation of the historically contingent nat linguistic mainstream, would seem to be necessary be preliminary consensus on the issues of language evol reached.

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