rith <u>female</u>), meaning
(1) If the corresponding semantic category is <u>female</u> , the morpho- syntactic category is <u>feminine</u> .
the semantic category of questioning; and so on). I shall describe these correlations by means of statements like the following:
i Y Sol
Because of this tendency, we have certain canonized names for the morphosyntactic categories (feminine, rather than deciduous, for the
the morphosyntactic categories to line up or correlate with the sub- semantic ones, even though there are exceptions in both directions.
events, or whatever). Finally, there is a considerable tendency and
(called sentence types) of sentence-sized syntactic constructions. We have a semantic categorization (of things, situations, situa
(called genders) of nouns, several distinguishable categories from (called cases) of noun forms, and several distinguishable categories
syntactic categorization of forms-several distinguishable categorization
like another piece of Sachertorte, please).
(<u>Give me the family economy size, please</u>) but also by interrogatives (Would you hand me those lupines, please?) and declaratives (F.C.)
this pretense?), while requests are expressed not only by imperative
any champagne left?) but also for requests (May I have the jalapenes
do not correspond perfectly to semantic speech act types; Englisher interrogative sentences are used not only for questions (Is there are
ist mir kalt 'I'm cold'). In the same way, (surface) sentence then
in the nominative but also by forms in the accusative $(\underline{\text{mich}} \text{ in } As)$
him') but also for experiencers (as in Ich habe Hunger 'I'm hunger') and at the same time experiencers are expressed not only by former
cases do not line up one to one; in German, the nominative case as a used not only for agents (ich 'I' in Ich habe ihn gestossen' 'That's
neuter. Similarly, morphological cases and semantic (or Filimorent
and <u>Zimmer</u> 'room' is neuter, as expected, but <u>Fraulein</u> 'girl, Missi,
many-many relationship. 'Grammatical' and 'natural' gender are we are standard examples: German Fram 'woman. Mrs.' is feminine in particular
semanticsthat morphosyntactic and semantic features stand interiments
in discussions of grammatical theory that the categories of mornal and and and and the but distinct from the categories of mornal and the second seco
1. Introductory remarks: form and function. It is a commute of
Onio State University
Hierarchies of Person*

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semantic category <u>female</u>, then call this morphosyntactic category 'feminine'. H there is a morphosyntactic category corresponding to the

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The bulk of this paper is taken up with one morphosyntactic categorization present in all languages, that of person, and with the universal <u>correspondence principles</u>, analogous to (1), associated correspondences between categorizations of form and meaning. morphosyntactic categories present in all languages, principles like this take on some significance, since they express universal much interest, being essentially definitional. But when we look at Not every language has such a morphosyntactic category, of e, so that a principle like (1), though a universal, is not not of

syntactic categories and phonological forms. with the categories of person. The position I am taking, then, is the familiar one that there is significant linguistic categorization on at least two levels between the world of objects and events, on the one hand, and and morphosyntactic categories, and the connection between morphohave only a little to say (in the next section) about the connection between semantic categories and the real world, but a good bit about the remaining links in this chain, the connection between semantic forms, on the other: semantic and morphosyntactic.

What I am trying to do is to be clear in my own mind about some its of an apparently very simple matter, the way in which le are referred to by personal pronouns and inflectional affixes. I am trying to do this because the category of person is one thich there is a long and widespread tradition of assuming that is not much difference between the classifications imposed in cs and in morphology-syntax: so, Lyons 1968:276 says that

discourse; the 'second' person is used to refer to the hearers and the 'third' person is used to refer to persons or things other than the speaker and hearer. The category of <u>person</u> is clearly definable with reference to the notion of <u>participant-roles</u>: the 'first' person is used by the speaker to refer to <u>himself</u> as a subject of -uguo So much is straightforward

ingui s indirec specifi topic, Ë Ņ acts t uses of linguistic forms--a collection of data that ts and philosophers have been discussing hotly in recent cally not addressing here. These are cases of displaced or \underline{t} uses of linguistic forms--a collection of data that two areas. the case of speech acts, it is (reasonably) clear that there The controversy has centered about the Introductory remarks: displaced uses. Before c, I must say a few words about some matters rather than pronominal usage, but the issues are similar question of indirect 王 tackling the

ĝ ntinuum of examples, ranging from those like

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speech

With all these preliminary caveats, exclusions of the way, I turn to the categories of person that humans by virtue of their not being one of the people actually involved in the speech act). Moreover, I will talk indifferently of distinctions made in the pronouns and in the verbal or nominal categories I want to talk about are those of person, both in pronouns and in verbal affixes. For my purposes here I will be concerned only with uses of pronouns and verbal affixes to refer to human beings, though (as has been observed by Benveniste 1971:ch. 18, and others) the so-called 'third person' is, in a very real sense, a non-person, since it is used to refer to non-humans (and refers to not the same. inclusive we in <u>Are we ready for dinner</u>? (said by a nurse to a patient), the majestic or editorial we, or the intimate or condescending <u>he</u> in <u>Is he angry</u>? (said, with labialization throughout, by wife to husband), in which certain pronouns can be intended or used to achieve the effect of other pronouns but for which we would not want to claim additional meanings for these pronouns; and there are some referential (that is, semantic) purposes; for these I use ordinary affixes of a language, though the various systems are very often connect the morphological form with its meaning. to describe the relationship between the semantics of the pronoun and its use in real-world conversational situations, not how to polite second-person pronoun as well as third-person plural pronoun. The problem in cases like the phoney first person inclusive is how rest of this paper. will dismiss displaced uses of pronouns from consideration in the meaning for the sentence is reasonable. Arabic numerals: cases like the German pronoun /zi/, which has come to serve as the meaning. not how to connect its syntactic and morphological form with its of the sentence and its use in real-world conversational situations, problem is how to describe the relationship between the semantics the sentence and for which an analysis with this use as part of the meaning for the sentence is reasonable. In examples like (4) the sentence can be intended or used to achieve some effect but for which no one would want to claim that this use was somehow part of in which a syntactic construction has come to be employed specifically for communicating some content at variance with the surface form of জ a meaning for the sentence, to those like used to suggest going out and getting a beer, in which some (1 Aren't you thirsty? φ Why not go out and get a beer? So with pronominal usage. Reference sets and correspondence principles. these preliminary caveats, exclusions, and hedges out We have examples like the 'phoney Accordingly, are relevant The н for

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reference to the speaker

1+5: we: 1+2, 1+3, 1+2+2, 1+2+3, 1+3+3,...
you (plural): 2+2, 2+3, 2+2+2, 2+2+3, 2+3+3,...
they: 3+3, 3+3+3, 3+3+3+3,... 2+2+3: ÷ reference to someone other than the speaker or addressee reference to an addressee reference to the speaker and one addressee, but no one reference to two people, neither of whom is the speaker or the addressee else reference to two distinct addressées and to someone neither the speaker nor the addressee

English plural personal pronouns: The meaning of a particular morpheme can then be expressed as a list of all the reference sets covered by that morpheme; so, for the The referential elements in (6) can combine with one another to make reference sets of any size whatsoever, for example: 8 3

But (8) indicates the membership of three infinite lists without giving any principles that say which reference set is covered by trick: which pronoun. The following ordered set of principles does the

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(particular morphemes of English) and meaning (the referential In (9) I have introduced morphosyntactic categories of person, ŗ 3) is of a familiar type, being just like the cases universal (having 6

with the association of English morphemes with particular morpho-syntactic categories). That is, I should like to factor (9) into the universal principles to do with the association between morphosyntactic categories and referential categories) and one particular to English (having to o I discussed in section 1 above. In fact, I should like to say that (9) really represents two sorts of principles, one universal (having elements 1, English system of personal pronouns, a gratuitous complication, even though the categorization that is interposed between form sets of categories and developing parallel but distinct formalisms for the two sets is, from the point of view of describing the along with symbols for them (I, II, III) which are different from the symbols for semantic categories in (6). Distinguishing two

- ٩ Use the first person (I) pronoun we for any reference set with the referential element $\frac{1}{1}$
- ਤ c) Otherwise, use the third person (III) pronoun they. Otherwise, use the second person (II) pronoun you for nce set with the referential element 2;

This (1)⁴) have been. pronoun system like (14) has been attested, although plenty like plural personal pronouns, as follows: of a new language. the trated. appreciated by imagining what it would be like to have them frusð system in terms of these person categories; (12) and (13) are, ITI. language English. (13) equivalently that 1 dominates 2, and that 2 in turn dominates 3: and second, a <u>hierarchy of reference</u>, which says that (12a) takes precedence over (12b), and (12b) in turn over (12c), or person systems The principles in (10), moreover, are actually two intertwined sets of principles-first, the <u>correspondence principles</u> (first (12) (12) to say. About (II) and the English principles (G speak, globe will understand the characterization of a pronoun or affix should strike us as Both (12) and (13) seem to be universal, not specific to *<u>syou</u>: *<u>sthey</u>: *swe: Anyone who comes across a description of a hitherto ignored רי ע ע (11), which concerns the English lexicon, Ø systems as involving I, II, and III, or as involving I+II person inclusive), I-II (first person exclusive), II, and 9 ۲ ੱਦ æ <u>@</u> <u></u> ਭ <u>e</u> Suppose we came across a language with exactly three from some remote But about They are, in fact, implicit in the characterization of part of the baggage we bring in when we visit the territory II is associated with 2; III is associated with 3. Otherwise, use a III pronoun. I is associated with 1; III Pl is associated with they. I Pl is associated with we; The hierarchy of reference in (1^{l_1}) is not II Pi is Otherwise, use a II pronoun for any reference set with the referential element 2; referential element Use a 1+3, 1+3+3, 1+3+3+3,... 1+2, 2+2, 2+3, 1+2+2, 1+2+3, 2+2+2, 2+2+3, 2+3+3,... : 3+3, 3+3+3, 3+3+3+3,... ω I pronoun for any reference set with the (IO), These expectations associated with you; an impossible system, there is a great deal to be said. (or at least unappreciated) corner of لسې •• can perhaps be best and indeed no three-I have little more (13) 5uc 8 morphosyntactic) number features-singular (Sg) for reference sets and, apparently, this hierarchy of reference does not occur. The inclusive/exclusive distinction adds only a singht complexity to this account of the meanings of plural pronouns. Here again 2 dominates 3, so that we have reference sets like the (12) numbers are distinguished. containing exactly one element, dual (Du) for those with two, trial (fr) simply by the (morphosyntactic) person features and the (equally (16) categories) indicates the Austroasiatic language Palaung (Burling 1970:14-7): (* three following: (77 (71) for those with three, by Ray 1926:386f. under the name Nogugu, and cited by Forchheimer 1953:81): exception I know of, analysts couch their descriptions in terms of morphosyntactic categories,³ and expect their readers to understand them via something like (12) and (13). correspondence principle in (12) and the hierarchy of reference in (13) are, indeed, <u>assumed</u> by writers setting out pronominal systems and by readers interpreting such descriptions. Without any We do not need to be told that the Nokuku II Tr form <u>omtolu</u> covers 2+2+3 and 2+3+3 as well as 2+2+2, or that it doesn't cover 1+2+2 or 1+2+3 (both of which are expressed by <u>otolu</u>). The (8T) Elaborate systems of personal pronouns can then be summarized ÷ or more, or four or more, depending on how many other rs are distinguished. Here, for example, is the paradigm for <u>А</u> А И I-II: I+II I-II I+II: III H The Algonquian pronominal prefixes. a form that the one for the Melanesian language Wokuku (described 1+2, 1+2+2, 1+2+3, 1+2+2+2, 1+2+2+3, 1+2+3+3,... 14 14 Prov 1+3, 1+3+3, 1+3+3+3,... ω 3 \mathbf{O}_{i} *08 ≩ does not exist because of contradictory plural (P1) for those with two or more, Yan gar par 빌 Here, B Š P ģ ო I turn now to a the Book All Part of the Control • • • • 1

problem in the morphology of the Algonquian family of languages.

	III	II	I-II	I+II		
	i nikin	i niko	(i) nou	*	CS PA	
	rurua	omrua	omorua	orua	Du	
	ritolu	omtolu	omotolu	otolu	Tr	•
•	i rir, ri	emiu	eman	rie	PI	· ·.
	rire	•				

	I+II	. (10:
(i) nou	* [2] 04	
OMOTUA	<u>Du</u> orua	
omotolu	<u>Tr</u> otolu	• • •
eman emiu	rie	

(6T) word <u>person</u>, which is both an ordinary language term and a technical term of linguistics): prefixes indicating definite person; Bloomfield reconstructs them as According to Bloomfield 1946, Proto-Algonquian had three inflectional And they occur with verb stems, in which case they supply informati (also marked in suffixes) as to the nature of the subject and object (Bloomfield's 'actor' and 'goal') of the verb, as in the following Menomini forms (Bloomfield 1962:37). (2 2 1933:257): indicate possession, as in the following Cree forms (Bloomfield (20) He goes on to say (with an interesting ambiguity in his use of the The three morphemes occur also with pronominal suffixes, and in this statement (Bloomfield 1962:38) about Menomini: (24) following Menomini forms (Bloomfield 1933:256): combinations serving as independent personal pronouns, as in the (23) (22) These three morphemes occur with noun stems, in which case they where more than one person is involved as possessor, actor, or goal, the preference is in the order given; thus "we inc." has ke-, but "we exc." has ne-; tr. forms for "I-thee" kitestutin *<u>ke</u> 'thou' nitastutin 'my hat' utastutin 'his hat' <u>ھ</u> 1-11 (inclusive) daughter', but addressing anyone else he will speak of <u>neta-nenaw</u> 'our (exclusive) daughter'. the father addressing the mother will speak of keta nen and "thou-me" both have ke- (Bloomfield 1946:95). H IttI H Ξ 'he, it' (~ Ø) ľ, nen£:wa:w ken::wen kenian neniak 'thy hat' 'I see thee' 'he sees me' wenah nenah S B * kenah 'thou seest 'I see him' (prefix <u>ki</u>- < *<u>ke</u>-) (prefix <u>ni</u>- < *<u>ne</u>-) (prefix <u>u</u>- < *<u>we</u>-) in which case they supply information the nature of the subject and object ∎е ¹ wenua? nena? kenua? kena? 멉 ~ * * ne-) the information our mo

neither addressee nor speaker is invol if any, is $\underline{o} - (\underline{w} -)$. 6, again alluding to Menomini, mention only: lement Eke-l appears in the forms that if the bearer is not included, fne-l d if neither is included, the initial i by Gleason's 1961:230 characterization by Gleason's 1961:230 characterization speaker but not the hearer is involved' speaker but not the hearer is involved'	he pre this is as	<pre>/K-wapm-a-mun/ we (and thou /k-wapm-a-wa/ ye see him (b) /n-wapm-a-wa/ <u>I see him</u> /n-wapm-a-mun/ <u>we (not thou</u> /n-wapm-a-mun/ <u>we (not thou</u> (c) /w-wapm-a-mun/ <u>he sees the ot</u> /w-wapm-a-wa-n/ <u>they see the /w-wapm-a-wa-n/ they see the b).) in (21)-(23) we see that the second for the three grammatical persons in to</u></pre>	n one:wa:nan 'he does not see Llowing Potawatomi forms (rearra -wapm-a/ thou seest him
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8 10 10 by Hockett's 1966:61 glossing of the prefixes in Potawatomi:

/w-/	/-n/	(29) /k-/
referent not local	addressee excluded but speaker involved	addressee involved

with referential person, as in Frantz 1966:51, on Blackfoot Occasionally, morphosyntactic person is explicitly identified

					(30)
fifth person	•	fourth person	third person	second person	first person
11		11	8	H :	D
topic subordinate to fourth person	person .	secondary topic, subordinate to third	primary topic	addressee	speaker

morphosyntactic person): in Plains prefix formatives being referred to, as when Pike 12, 1p, But sometimes it , 2p, Cree ves which are used when the subject person is 1, 2, 3p," or when Wolfart 1973:15 describes the prefixes (though note his identification of referential and seems to be morphosyntactic person that is when Pike and Erickon 1964:202 speak of the describes the prefixes

<u>щ</u> о_њ nor addressee, namely the third...ki takes precedence over \underline{ni} and \underline{o} ~ \emptyset , and \underline{ni} in turn over \underline{o} ~ \emptyset . That is The personal prefixes ki-, ni-, and $o_{-} \sim \emptyset$ mark the basic person categories in the possessive paradigm of nouns and of Cree: among the person categories, second precedes first and o- ~ Ø marks the person which includes neither speaker which in turn precedes third. ę whenever person, in the goal, the prefix is ki-; etc. personal prefixes reflects a independent order of verbs. independent order of verbs. <u>ki-</u> marks the second or addressee; <u>ni-</u> marks the first person, or spec a form involves a second person, whether as fundamental order principle The ordering of the set or speaker actor

prefixes If this is a hierarchy of referential (or semantic) person, the We are in trouble, since our putatively universal hierarchy in 2 > 1 > 3. we are in trouble, since our putatively universal hierarchy in (13) is 1 > 2 > 3, but here the hierarchy is as in (15), that At any rate, involve a hierarchy of person, in some sense of person. it is clear that the Algonquian pronominal then ы. 10

the 00 00 Ë need be no inconsistency: categories of person just as we understand those Nokuku (18). What Algonquian has is a hierarchy involving some aspect of morphosyntactic person, then there (13) with respect to their reference; we understand the Algonquian I+II, I-II and other forms still follow the order of dominance Ιſ, on the other hand, we interpret the Algonquian hierarchy What Algonquian has is the hierarchy of reference remains, and a hierarchy in addition in Palaung (17) 8 (13). Å

Our only problem in stating the Algonquian hierarchy properly is that of somehow putting together second person forms with first person inclusive forms, as against first person exclusive forms. But the symbolism I introduced in (9) above (with I, I+II, I-II, II, III as names for morphosyntactic categories) very nearly suffices for this purpose. All we need do is make explicit the complex character of the categories I+II and I-II; this can be done by treating I, II, and III as binary features (roughly in the manner of Postal 1966); \pm I, \pm II, and \pm III. We will need to add some special assumptions about the relationships among these features, so as to obtain the results that that some hypothetical language has a morphological system with four person distinctions and that there are three affixes selected on the basis of the hierarchy in (35). By (33), the four morpho-syntactic categories in this language will be +I+II, +I-II, +II, and +III. Given the hierarchy in (35), +I-II Pl will pattern with +I+II Pl and will be dominated by +III Pl--this despite the fact that avoid positing contradictory referential hierarchies in a single language. It is possible, however, to imagine systems in which the referential and morphosyntactic hierarchies <u>must</u> be stated separately if the facts are to be described adequately. I do not know of any actual languages that serve as crucial test cases in this regard, but what we would need is a language that is otherwise like an Algonquian language, but in which the morphosyntactic hierarchy has III dominating I (I assume that the referential hierarchy in (13) holds); there are three possibilities: the Algonquian system does not require (34) in addition to (13). The way in which morphemes are associated with their meanings could perfectly well be described by means of (15) instead of (34). I have argued that assuming (34) in addition to (13) allows us to (36) (3² of the this (and (33) (32 22) Hierarchy (35) will do as an example. We are supposing, then, perhaps still further universals in the same vein). Within framework we can then state the Algonquian hierarchy in terms III > III > II > II + III + III > II + II > II + II + III + IIII + III + III + III + III + III + IIII + IIII + IIII + IIII + III + III + IIII + III + IIII + III + III + IIII + III + IIA morphological system with three person distinctions has exactly the categories +I, +II, and +HII. T+ < III + < III + < III +A morphological system with four person distinctions has exactly the categories +I+II, +I-II, +II, and +III. 111 + 1 + 1 + 111features <u>+</u>I, <u>+</u>II, and <u>+</u>III: Hypothetical test cases. To be fair, I must point out that • . .

and a second second

above), just like all the reference sets covered by +III. The is, the hierarchy in (35) is distinguishable from a hierarchy stated in terms of referential categories: every reference set covered by +I-II Pl contains a 3 (see (16) (1 That

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(38) (92) 3 > 1 > 2

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In our hypothetical pseudo-Algonquian, (35) holds but (38) does not, since (38) would predict that +I-II Pl forms pattern with +III forms, while (35) says that +I-II Pl forms are dominated by +III forms. Similarly for (36) and (37) versus corresponding hierarchies stated in terms of referential categories. 6. The role of morphosyntactic person. Hn to th

6. The role of morphosyntactic person. Up to this point I have argued that the selection of pronominal prefix morphemes in Algonquian--that is, the selection of which morpheme to go along with which meaning--is properly a matter of morphosyntactic universal: categories rather than referential categories. that this is not merely a fact about Algonquian, but is really a I venture to suggest

હુ Only the morphosyntactic categories +I, +II, and +III, principles for the selection of morphemes. not the referential categories 1, 2, and 3, can figure in and

From (39) we can predict the absence of a pronominal system like $(1^{l_{1}})$ -with exactly three plural pronouns and the hierarchy of reference $2 \ge 1 \ge 3$, as in (15). Such a system can't occur because, on the one hand, the only possible set of morphosyntactic categories is +I, +II, and +III (by (32)), while on the other hand, hypothesis (39) rules out morpheme selection on the basis of the categories 1, 2, and 3, so that there is no way to put together reference sets like 2+2 (which is +II) and 1+2 (which is +I), even though both reference sets contain the referential element 2.

Hypothesis (39) can probably be extended from the selection of morphemes to their ordering. Indeed, hierarchy (34), +II > +I > +III, applies to the ordering of morphemes in Cree as well as to the selection of morphemes in that language:

(l-0) This ordering principle $[(3^{\mu})]$ is also manifest in the fixed order of affixes in both noun and verb inflection. and among non-third markers, second-person markers precede first-person markers. (Wolfart 1973:15) Non-third markers always precede third-person markers,

of a surface structure constraint requiring clitic pronouns to occur in the order An extension of hypothesis (39) would also permit the formulation

(<u>1</u> ÷. **+** +III •. .

> phrase conjuncts. (46) in the (34) We would not want to sum up <u>morphosyntactic</u> person, for then the choice of anaphoric pronoun would have to be stated in terms of a themselves with situations in which morphosyntactic rather than referential categories are at work, there are hypotheses to be reference (13). Instead, we may propose, with McCawley 1968:145 (1 1 1 1 1 1 no ordering principles that have to be stated like (42) rather than like (41), and so I suggest (with the usual warning about its tentativeness) the hypothesis third plural pronoun if the first plural pronoun-was understood inclusively (as, say 1+2) but following the third plural if the first plural was understood exclusively (as, say 1+3). I know (illustrated in the choice of reflexive pronouns in stated (43) that e hierarchy this sort is the summing up of person in conjoined noun phrases, rather (42) pronouns to occur in the order had three plural pronouns (like Spanish) and which required clitic as in the treatment of Spanish by Perlmutter 1970, but would bar the formulation of a similar constraint mentioning referential categories. What would be ruled out would be a language which Such a In contrast to hypotheses like (39) and (43), which concern She union of the indices of its conjuncts. the index of a conjoined noun phrase be the set-theoretic Margot and Esther made themselves scarce. You and Janet and I have to get ourselves going. You and Harold shouldn't have perjured yourselves. You and I should behave ourselves. in principles governing the ordering of morphemes. and not the referential categories 1, 2, and 3, can figure ractly +I > +II > +IIIOnly the sense that the reference set associated with a conjoined noun be the combination of the reference sets associated with its than morphosyntactic categories are the key. One example of about situations of the opposite sort, in which referential language would have the first plural pronoun preceding the Ņ pas duplicates the independently required hierarchy of I will give ourselves a treat. morphosyntactic categories +I, +II, ω μ · · · 4, end still, I know of that

proximity, definiteness, gender, obviation, individuation, collectivity only and do not touch on such related features as deference, Personlehre. questions that concern person systems in general. My comments and so on. barely scratch the surface; this is no Beitrag zur allgemeinen 7 Jottings on person systems. And as above, my remarks I turn now to several treat person distinctions here

itself into two binary features, <u>+</u>Speaker and <u>+</u>Addressee (or, as some writers prefer, <u>+</u>Ego and <u>+</u>Tu, or <u>+</u>Me and <u>+</u>You); indeed, dozen of analysts (for instance, Hale 1973:322 and Burling 1970:16) have categories +I+II, +I-II, +II and +III is nearly as complex as person systems get. This four-category system naturally resolves come up with a two-by-two arrangement like A morphological system with forms expressing the semantic dozens

		(44)
-Addressee	+Addressee	
+ T - T I		+ Speaker
+III	+II	-Speaker

simple. <u>tSpeaker means that the reference set contains</u>/ contain 1, and <u>tAddressee means that the reference set contains</u>/ features, should anyone want to do this: hierarchy of reference in (13) can does not The referential correlates of the features in (44)contain 2. The correspondence principle in (12) and the <u>+Speaker means that the reference set contains/does not</u> be restated in terms of these are

- (48) 8 |-; |-; +Speaker, then +I;
- (ii) Ξ if +Addressee, then +I+II;
- 3 (ii) otherwise, +I-II; otherwise, if +Addressee, then +II; otherwise, +III.
- 6

addition to, or instead of, the classification into morphosyntactic persons. I will argue that they are not, at least as part of a However, the question is whether the features are needed in

most expected directions of levelling in morphological systems, ultimately upon the hypothesis that 'les lois qui dirigent les universal vocabulary for language description. But first I should point out that the feature ±Addressee has some utility, since it can be used to predict syncretisms of person forms. The reasoning here depends on certain assumptions about the du système' syncrétismes sont en rapport avec les lois dirigeant la structure assumptions like the following: (Hjelmslev 1935:104), but more immediately on

(64) The forms most likely to be represented by the same morpheme are those distinguished by a single feature

> in (49) observed. person observed. Thus, for verbs in the Veracruz dialect of Aztec (problem 110 in Mida 1949): feature persons The assignment of features in (47) along with the hypothesis plural (+I+II) and the second person ±Speaker. share the feature +Addressee and differ only in the ±Speaker. This formal connection has in fact been Predicts a formal connection between the mathematics of the mathematic of the mathematics the inclusive first since these , : ,

(50)

subject pronouns And in (The formal the Yawelmani dialect of Yokuts (Newman 1944:231f.), the connection between +I+II and +II is to be seen in (50a)).

(51) **B** +I Sg <u>na</u>, +I-II Du <u>j</u> initial <u>na</u>, while +I+II Du <u>mak</u>, +I+II I +I-II Du na'ak, +I-II Pl na'an share

and differ only in the feature <u>+</u>Addressee. the connection between the second and third second person singular pronoum, as in Neo-Melanesian jumi 'we
(incl.)' = ju 'you (sg.)' + mi 'I', which contrasts with mifele
'we (excl.)' and jufele 'you (pl.)' (Hall 1966:50f.).
The assignment of features in (47) also predicts a formal observed in (51b).⁵ From (47) we would expect +I+II forms to show similarities this prediction is again borne out, most strikingly in those other first person forms as well as to second person pronoun pidgins first that have constructed an inclusive first person plural by compounding the first person singular pronoun with the persons), since +II and +III share the feature -Speaker persons (as opposed to Some cases of syncretism forms, and g

of this

sort have been reported in the Paleosiberian languages:

(52) ω In Gilyak the neutral moods alone possess a personal and person is a person singular; a common form for the second and third number indication in opposing the first to the non-first ll Luorawetlan languages. frequent phenomenon in the conjugation of (Jakobson 1942:617)

Ø hort of neutralization as in Luorawetlan. pronouns given in (23) above show three stems, The Menomini for instance: and.

⁺TTT, personal There are also languages with similarities in form between +II

è ୍ତି +II Sg and +I+II Pl share a prefix, +II Pl has a distinct prefix, <u>an</u>-. +I Sg and +I-II Pl share a prefix, <u>ni</u>-; +II Sg and +I+II Pl share a prefix, <u>ti</u>-;

9 second person and +II Pl ma'an, forms like Pl may show the initial ma of like +II Sg ma', +II Du ma'ak,

there 1s a formal connection between +I+II and +II to be

so that

person. feature <u>+Speaker</u>), as opposed to second person and inclusive first categories sharing the feature -Addressee and differing only in the between third person and exclusive first one formal connection that has never to my knowledge been reported---(The similarity in form is exhibited in (53c).) On the other hand, the arrangement of features in (47) predicts මම ૽ -<u>nah</u> in Sg; -<u>na</u>² in +I+II Pl and +I-II Pl; -<u>nua</u>² in +II Pl and +III Pl. person (the +III and +I-II

Moreover, the assignment of features in (47) fails to predict one formal connection that has been widely observed, that between +I and +II taken together, as opposed to +III--for instance in the many languages in which the +III forms differ from the others by and +II Sg <u>nen</u> versus +I Pl and +II Pl <u>nukni</u>); or in the Mexican Language Sierra Popoluca, which has among its verb suffixes which demonstrative forms serve as +III pronouns; or in the Paleo-siberian language Yukaghir, where 'the first person and the second tend to fuse' (Jakobson 1942:617); or in the Athabaskan language Chippewayan (Forchheimer 1953:137f.), where the distinction between the resembling demonstrative pronouns or nouns, or (as in Latin) in +I Pl and +IL Pl disjunctive pronouns is neutralized (+I Sg si

(15) -ta⁹m, used when either the subject or object...is in the first or second person, and pluralizing either the subject or object; -yah, used when either the subject or object is in the third person, and pluralizing either the subject or object. (Foster and Foster 1948:18).

way of deciding whether (47) is the 'right' componential analysis, of difficulties that scholars of language universals have had in deciding which of the categories is the most marked and which the most unmarked (see the brief discussion in Greenberg 1966:44f., and virtually all the others have been, even some that fit none of the classificatory schemes I have been discussing; thus Jakobson 1942; 617 reports a (rare) case of a neutralization (in the Paleosiberian language Ket) of +I and +III forms as opposed to +II. The internal intricacy of the person categories is well known; it is the source Our difficulty in getting (47) to fit the known facts of language via linking assumptions like (49) seems to arise from the into features will be possible. also Benveniste). In any case, the number of categories under analysis is quite small, so that if there are more than a few as opposed to, say great variety of internal relationships among the persons in the languages of the world. Although there are some relationships internal relationships several different and incompatible analyses (like the one between +I-II and +III) that have not been exemplified, As a result, I see no rational

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(53)

 can suffice for the universal analysis of person systems, shares, shares, shares, there are languages with more than four distingt, adapped exclusive shares has three first person or person, shares and the person or person or person addressed, and excludes the speaker and the person or person addressed, and any other person or person addressed, and any other person or person addressed, and referred to. The indicate plural includes the second person person addressed, and any other person or persons addressed, and referred to. The person or person addressed, and referred to. The person or person addressed, and referred to. The person or person or person addressed, and referred to. The person person or person person addressed, and referred to. The person of person person or person addressed, and referred to. The person person of person plural includes the second person plural in Sierra Popoluca, is indicated (optionally) by the least marked category of the three, is indicated by ta(n) plus the second person of the three, is indicated by ta(n) plus the second person of the three, is indicated by ta(n) plus the second person of the three, is indicated by ta(n) plus the second person of the three is follows; (57) name morphosyntactic reference sets.cornered in Pi person sections of the three, is indicated by ta(n) plus the person second person that there are some-the forms would be: 	s distant 1971:197- 197 might rsons, no	Subjective ?
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him'), though these would parallel person, woman, and man in the sphere of person rather than gender. What we do find (sometimes) snīd languages with three distinct pronouns for the categories +I Du ('me and someone else'), +I+II Du ('me and you'), +I-II Du ('me female), and <u>man</u> (sex specified as male), by in person systems are very hard to come by. surprising absence, given the frequency of unspecified terms else-where in the vocabularies of languages. We frequently find triples language Lover Kanawari (Forchheimer 1953:115), a pronoun that another, S N like the English person (sex unspecified), woman (sex specified as female), and man (sex specified as male), but corresponding exampl in systems that have more complex categories-in some ways a rather arises also from the absence of common or unspecified categories part from the absence of complex categories like +I+II+III; it the relative parsimony of existing person systems arises only in so that there is a total of nine possible person categories (excluding distinctions of deference, proximity, and the like). I know of no language with anything like this total, and (interestingly enough) ရ ရ while the 'exclusive' (59) (60) six categories-fullest possible (58) (in which grammatical persons covering the reference sets: the neutralization in one number of subcategorization made in three possible 'common' or unspecified categories Given all of the observations so far, we can work out The prediction would be <u>category</u> +I+II +I+II+III ŧ +III (d) (d) (d) +I+II+III +II-III +II+III +T-7T +II-III: +II+III: as in the 'common' +I Pl pronoun kisu in the Himalayan the 2+2, 2+2+2, 2+2+3, 2+2+ 2+3, 2+3+3, 2+3+3+3,... 'inclusive' second person in (59a) includes two 2+2, 2+3, system of morphological persons. 2+2+2, 2+2+3, second person in (59b) excludes a second 2) +I+II, +I-II , 2+3+3,... , 2+2+2+2,... +I+II+III, +I+II-III î, L subsumes 2, 2+2, 2+2+2, 2+ 3, 3+3, 3+3+3,... 2+3, 2+2+3, 2+3+3,... 2, 2+2, 2+2+2, 2+2+2+2,. reference sets covered 1+2+3, 1+2+2+3, 1+2+3+3,. +II+III, +II-III 1, 1+3, 1+3+3, 1+3+3+3,... that no language distinguishes 2+2+2+2, 2+2+2+3, 2+2+3+3,. 1+2+2, 1+2+2+2,... We do not find corresponding examples (exclusive (inclusive +I-II Du ('me This would have the ct vo ю s and

li Ili Ili 19µ8 quite there (incl) where morphemes 1+1+3, person is not 'If t

subsumes both +I+II Pl and +I-II Pl, though the Du has distinct forms, +I+II Du <u>nisi</u> and +I-II Du <u>kasu</u>.

McCawley, and Jerrold Sadock). They are, of course, in no way responsible for what I have made of their advice. 1. I have left out reference sets like 1+1, 1+1+2, and version and offered me comments (most especially to Arlene Berman, Wolfgang Dressler, and David Stampe), to those in the audience at M.I.T. who criticized my presentation (among them Sylvain Bromberger Catherine Chwany, Morris Halle, and James Harris), to those at the Catherine Chwany, Morris Halle, and James Harris), to those at the CLS meeting who offered bibliography and criticisms (in particular to Lloyd Anderson, Gerard Diffloth, Eric Hamp, Noriko Akatsuka in May 1975. January 1975, and an earlier oral version *A shorter version of this paper was distributed in dittos in ury 1975, and an earlier oral version was presented at M.I.T. Wy 1975. I am much indebted to those who read the dittoed Footnotes

First person plural forms are used on such occasions. As it happens, this is just what is predicted by the discussion below, so that the omission of multiple speaker reference sets from (8) is speaking, it is because "we" is not a multiplication of identical objects but a <u>junction</u> between "I" and the "non-I", no matter what the content of this "non-I" may be' (Benveniste jointly written texts--in which several people speak simultaneously or as one, and for which multiple speaker forms would be appropriate. 1971:202). involving reference to <u>several speakers</u> (in contrast to reference to one speaker plus one or more people other than the speaker): here cannot are Te sets that would correspond to a true first person plural, . No language has been reported with <u>multiple speaker</u> distinct from <u>speaker plus other</u> morphemes, even though occasional circumstances--Greek choruses and some be several "I"s conceived of by an actual " 1-1-1 N D D D

P disjunctively in languages, most recently perhaps in Sadock 1974:28-30, significant. Something like (10) has figured in many discussions of ordered rules are stated.

Š φ on Potawatomi; a bit: (inclusive/exclusive) first person plural, 1st Pl /excl), I Pl (Incl/Excl), 12 vs. 1p, 12 vs. 11, among others 4. Pike and Erikson are here writing in response to Hockett Pike and Erikson are here writing in response to mocket Potawatomi; Hockett 1966 is a reply in turn. Notice that the Nokuku system in (18) above is unusual. Though the names or symbols for those categories very

in that it has +I-II (first person <u>exclusive</u>) forms resembling the +II forms: +I-II Du, +II Du, +I-II Tr, and +II Tr share the morphe pread in Austronesian. nd +III Pl i rir/rire. while +I-II Pl emam and +II Pl emiu The peculiarity is apparently contrast with +I+II Pl the morpheme

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Addenda to bibliography: