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concerned only with single words and with the relastructural "genius" of the language is something certain cut, to each language. This type or plan or guage that there is such a thing as a basic plan, a who has felt something of the spirit of a foreign lanany one who has thought about the question at all or some inkling of what is meant when we speak of the general form of a language. For it must be obvious to to be in practice. In this way we may have obtained crete about them, however abstract they may be felt with certain other notions that have something conof its elements, or that in one language syntactic reguage runs to tight-knit synthesis where another coneral type. Incidentally we have observed that one lanwhole languages as conforming to this or that gentions of words in sentences. We have not envisaged So far, in dealing with linguistic form, we have been cital of the sundry facts that make up the grammar of we gain an adequate idea of its nature by a mere reany single feature of it that we can mention, nor can much more fundamental, much more pervasive, than lations appear pure which in another are combined tents itself with a more analytic, piece-meal handling the language. When we pass from Latin to Russian we feel that it is approximately the same horizon that

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bounds our view, even though the near, familiar landmarks have changed. When we come to English, we seem to notice that the hills have dipped down a little, yet we recognize the general lay of the land. And when we have arrived at Chinese, it is an utterly different sky that is looking down upon us. We can translate these metaphors and say that all languages differ from one another but that certain ones differ far more than others. This is tantamount to saying that it is possible to group them into morphological types.

a half truth. Just as similar social, economic, and retrends are observable in remote quarters of the globe of the world from distinct historical antecedents, so its unique structure. Such a standpoint expresses only from one type towards another, and that analogous ually but consistently, that it moves unconsciously yond all doubt that a language changes not only gradthe historical study of language has proven to us betended to converge toward similar forms. Moreover, also languages, traveling along different roads, have that each language has its unique history, therefore of constructive thinking and to take the standpoint to ignore, for the time being, certain contradictions in overestimate the significance of this or that feature or of types, we may be quite certain that many of our of the earth. Like all human institutions, speech is sands of languages and dialects spoken on the surface would do full justice to the peculiarities of the thouligious institutions have grown up in different parts would be too easy to relieve ourselves of the burden prove the uselessness of the task? I do not think so. It their mechanism. Does the difficulty of classification them into the scheme at all it will be necessary to languages will need trimming before they fit. To get Even if we operate with a minutely subdivided scale too variable and too elusive to be quite safely ticketed. impossible to set up a limited number of types that Strictly speaking, we know in advance that it is

of comparable types, therefore, we are not gainsaying must have been reached by unrelated languages, inde-From this it follows that broadly similar morphologies powerful drifts that move language, like other social merely affirming that back of the face of history are the individuality of all historical processes; we are pendently and frequently. In assuming the existence types should be formed, just what is the nature of the types. As linguists we shall be content to realize that products, to balanced patterns, in other words, to life of language tend to modify them. Why similar there are these types and that certain processes in the forces that make them and dissolve them-these ques the psychologists of the future will be able to give u tions are more easily asked than answered. Perhap the ultimate reasons for the formation of linguistic

do not so much enfold the known languages in their classifications have been suggested, and they all contain we find that we have no easy road to travel. Variou elements of value. Yet none proves satisfactory. The embrace as force them down into narrow, straigh well be puzzled. And is one point of view sufficient sify? A language shows us so many facets that we m choose a point of view. On what basis shall we cla backed seats. The difficulties have been of various Secondly, it is dangerous to generalize from a small kinds. First and foremost, it has been difficult nese, and perhaps Eskimo or Sioux as an afterthough total of our material, Latin, Arabic, Turkish, Cl number of selected languages. To take, as the su tew languages nearer home that we are more imm a sprinkling of exotic types will do to supplement is to court disaster. We have no right to assume the a simple formula¹ has been the undoing of lingus diately interested in. Thirdly, the strong craving h When it comes to the actual task of classification

1 If possible, a triune formula.

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of these groups, the more so as they are not mutually ans are made to straggle along as an uncomfortable "polysynthetic" rear-guard to the agglutinative lanular classification of language into an "isolating a "transitional type." Hence has arisen the still popcan about these poles, and throws everything else into synthetic and isolating, as we shall see a little later on inflective, or inflective and polysynthetic, or even poly exclusive. A language may be both agglutinative and difficult to assign all known languages to one or other terms, though not perhaps in quite the spirit in which guages. There is justification for the use of all of these group. Sometimes the languages of the American Indi group, an "agglutinative" group, and an "inflective" by Chinese and Latin, clusters what it conveniently sification that starts with two poles, exemplified, say they are commonly employed. In any case it is very There is something irresistible about a method of clas

Greek and Latin and German was accepted as expres Whatever conformed to the pattern of Sanskrit and guages represented the "highest" development that sive of the "highest," whatever departed from it was cult for them to be persuaded that these familiar lan they had learned in their childhood. It was not diffi developed varieties were the Latin and Greek that anticipating it was another, a more human one. The to clear thinking. This is the evolutionary prejudice languages of a certain type, of which the most fully Intermingled with this scientific prejudice and largely beginning to abate its tyrannical hold on our mind the middle of the last century and which is only now which instilled itself into the social sciences towards ing. It is probably the most powerful deterrent of al languages has generally proved a fruitless undertak but steps on the way to this beloved "inflective" type speech had yet attained and that all other types were vast majority of linguistic theorists themselves spoke There is a fourth reason why the classification of

mental satisfactions is self-condemned as unscientific spiracy to evolve the race-horse or the Jersey cow. Lanzoölogist that sees in the organic world a huge conhigh-water mark of linguistic development is like the type of morphology as though it were necessarily the with preconceived values or that works up to sentteresting aberration.2 Now any classification that starts sion of human intuitions. These may shape themselves guage in its fundamental forms is the symbolic expres-A linguist that insists on talking about the Latin frowned upon as a shortcoming or was at best an in cool, yet interested, detachment. to look upon English and Hottentot with the same minds of preferred "values" and accustom ourselves language in its true inwardness we must disabuse our main unconscious. If, therefore, we wish to understand forms, of which, it need hardly be said, they are in the ment or backwardness of the people that handle the in a hundred ways, regardless of the material advance-

view shall we adopt for our classification? After all We come back to our first difficulty. What point of

for an inflecting woman to marry an agglutinating man. The mendous spiritual values were evidently at stake. Champions of the "inflective" languages are wont to glory in the very irrationalities of Latin and Greek, except when it suits them to emphasize their profoundly "logical" character. Yet the sober their profoundly "logical" character. Yet the sober their profoundly "logical" character. fivered himself of the dictum that, estimable as the speakers of agglutinative languages might be, it was nevertheless a crime togic of Turkish or Chinese leaves them cold. The glorious irrationalities and formal complexities of many "savage" languages they have no stomach for. Sentimentalists are difficult One celebrated American writer on culture and language de

The actual size of a vocabulary at a given time is not a thing of real interest to the linguist, as all languages have the resources at their disposal for the creation of new words, should a language has a large and useful vocabulary is another matter. cerned with whether or not a language is of great practical value or is the medium of a great culture. All these considerations, need for them arise. Furthermore, we are not in the least conimportant from other standpoints, have nothing to do with form I have in mind valuations of form as such. Whether or not

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stance, has no formal elements pure and simple, no selves with the more or less minute expression of magrasp of the fundamental relations but content them possesses it, though it is outwardly "formless" where attribute and predicate, and so on. In other words, it tions, of the difference between subject and object, tinction on the basis of "inner form." Chinese, for inattempt has sometimes been made to formulate a disencumbered by the use of non-radical elements. The chanical and rather superficial sense that it is not of course, be "formless"—formless, that is, in the mefrom the expression of pure relation a language may, clude that every language is a form language. Aside a single affix to be found in its vocabulary. We condamental syntactic relations even though there is not writers. Every language can and must express the funceding chapter, it is clear that we cannot now make or that the principle of order is subject to greater fluctain languages is an illusion. It may well be that in believe that this supposed "inner formlessness" of cerinferred from the context. I am strongly inclined to "outer form," leaving the pure relations to be merely terial ideas, sometimes with an exuberant display of are supposed to be languages* which have no true has an "inner form" in the same sense in which Latin "outer form," but it evidences a keen sense of relalanguages that used to appeal to some of the older the distinction between form languages and formless that we have said about grammatical form in the pre of expressing certain relations as explicitly as a more tuations than in Chinese, or that a tendency to comthese languages the relations are not expressed in as Latin is outwardly "formal." On the other hand, there plex derivations relieves the language of the necessity immaterial a way as in Chinese or even as in Latin,⁸

^{*}E.g., Malay, Polynesian.

*Where, as we have seen, the syntactic relations are by no means free from an alloy of the concrete.

tion we shall have to return a little later. tions of another order. To this criterion of classificasense that syntactic relations may be fused with no-"inner formlessness," except in the greatly modified this does not mean that the languages in question analytic language would have them expressed.6 All We shall therefore not be able to use the notion of have not a true feeling for the fundamental relations

one of these groups. The Semitic languages, for invide themselves into such as are prevailingly prefixing ing elements (affixing languages) or possess the power stance, are prefixing, suffixing, and symbolic at one and In the first place, most languages fall into more than classification (isolating, prefixing, suffixing, symbolic). entirely suffixing, like Eskimo or Algonkin or Latin, like Bantu or Tlingit, and such as are mainly or guages.8 The affixing languages would naturally subdital change; changes in quantity, stress, and pitch). The internal changes (reduplication; vocalic and consonanto change the significance of the radical elements by "isolating" group against such as either affix modifyword with the radical element would be set off as an There are two serious difficulties with this fourfold latter type might be not inaptly termed "symbolic" lanthe language. Those languages that always identify the to the formal processes most typically developed in More justifiable would be a classification according

Very much as an English cod-liver oil dodges to some extent the task of explicitly defining the relations of the three noun. Contrast French huile de foie de morue "oil of liver of cod."

symbolism and such significant alternations as drink, drank, drunk or Chinese mai (with rising tone) "to buy" and mai (with falling tone) "to sell." The unconscious tendency toward symbolism is justly emphasized by recent psychological literature Personally I feel that the passage from sing to sung has very much the same feeling as the alternation of symbolic colorsgreatly as to the intensity with which we feel symbolism linguistic changes of this type. e'There is probably a real psychological connection between See Chapter IV. green for safe, red for danger. But we probably differ

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stead of distinguishing between prefixing and suffixing to make another distinction, one that is based on the ary criterion. We shall find that the terms "isolating," guages, in which the prefixed elements have a farclearly a world of difference between a prefixing lanunited with the core of the word.10 relative firmness with which the affixed elements are languages, we shall find that it is of superior interest to refer to the expression of relational concepts9 alone. reaching significance as symbols of syntactic relations. sion of derivational concepts, and the Bantu language like Cambodgian, which limits itself, so far as of a certain external formal resemblance. There is "affixing," and "symbolic" have a real value. But in-In this modified form we shall return to it as a subsidi-The classification has much greater value it it is taken its prefixes (and infixes) are concerned, to the expresin its bare form is superficial. It would throw together languages that differ utterly in spirit merely because the same time. In the second place, the classification

can be made, but these too must not be applied exclu-There is another very useful set of distinctions that

*Pure or "concrete relational." See Chapter V.

win spite of my reluctance to emphasize the difference between a prefixing and a suffixing language, I feel that there is more involved in this difference than linguists have generally recognized. It seems to me that there is a rather important psychological distinction between a language that settles the formal status of a radical element before announcing it—and as a crystallization of floating elements, the words of the typical suffixing languages (Turkish, Eskimo, Nootka) are "determinative" formations, each added element determining the form of nucleus by successive limitations, each curtailing in some degree the generality of all that precedes. The spirit of the former method has something diagrammatic or architectural about it, the latter is a method of pruning afterthoughts. In the more highly wrought prefixing languages the word is apt to affect us this, in effect, is what such languages as Tlingit and Chinook and Bantu are in the habit of doing—and one that begins with the concrete nucleus of a word and defines the status of this sive, yet important, distinctions that an elementary study has no recourse but to ignore them. the whole anew. It is so difficult in practice to apply these elu¹¹ English, however, is only analytic in tendency. Relatively to French, it is still fairly synthetic, at least in certain aspects.

¹² The former process is demonstrable for English, French

The former process is demonstrable for English, French, Danish, Tibetan, Chinese, and a host of other languages. The latter tendency may be proven, I believe, for a number of American Indian languages, e.g., Chinook, Navaho. Underneath their present moderately polysynthetic form is discernible an analytic base that in the one case may be roughly described as English-like, in the other, Tibetan-like.

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ants, Italian and Modern Greek, while far more anasynthetic; on the other hand, their modern descend structural outlines as to warrant their being put in a structural respects, Latin and Greek are not notably analytic. This does not help us much. Relatively to distinct major group. An inflective language, we must lytic18 than they, have not departed so widely in many another language that resembles them in broad languages. First of all, they are synthetic rather than have been looked upon as peculiar to the inflective some of the basic features of Latin and Greek that can be gained by considering very briefly what are ing that we had best assign to the term "inflective" to make the terms cover all languages that are not, number of irrelevancies and by the unavailing effort necessary, one, but it has been generally obscured by a ready remarked, the distinction is a useful, even a ive" and an "agglutinative" language. As I have alike Chinese, of a definitely isolating cast. The mean-We now come to the difference between an "inflec-

our English words farmer and goodness with such chanically to radical elements which are at the same by a notable difference in the affixing technique of kind of affixing we have to deal with. If we compare some among them favoring prefixes, others running convey their meaning (agentive, abstract quality) with no sense independently significant elements, but they time independent words (farm, good). They are in words as height and depth, we cannot fail to be struck inflection. Possibly everything depends on just what to the use of suffixes. Affixing alone does not define with the emphasis heavily on suffixing. The agglutinathe two sets. The -er and -ness are affixed quite metive languages are just as typically affixing as they, insist, may be analytic, synthetic, or polysynthetic. Latin and Greek are mainly affixing in their method.

²⁶This applies more particularly to the Romance group: Italian, Spanish, Portuguese, French, Roumanian. Modern Greek is not so clearly analytic.

our goal. If our language were crammed full of coalescences of the type of depth, but if, on the other of inflection? I am afraid that we have not yet reached book fall like the books fall), the personal endings independently of tense (e.g., the book fells like the cord (e.g., the books falls like the book falls, or the hand, it used the plural independently of verb conclear indication of the inflective process. There are mere fact of fusion does not seem to satisfy us as a we should hesitate to describe it as inflective. The sees me, or him see the man like the man sees him), pronouns independently of case (e.g., I see he like he book falls, or the book fall like the book fell), and the ism that marks off such languages as Latin and Greek thereby giving signs of that particular kind of formal ion as one could hope to find anywhere without element and affix in as complete and intricate a fash indeed, a large number of languages that fuse radical Is the fusing technique thereby set off as the essence

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of inflective form. must then be prepared to revise radically our notion can call such languages inflective, if we like, but we spirit to the inflective type of Latin and Greek, We by definition—that are, for all that, quite alien in of fusing and symbolic languages-non-agglutinative nique, then we can only say that there are hundreds one that affixes according to the juxtaposing techlanguage. If by an "agglutinative" language we mean cepts as those of number and tense, are always associated with the syntactic peculiarities of an inflective element, even for the expression of such abstract conwan to imagine that symbolic changes of the radical change of e to o, change of p to ph), it is rather the their inflective cast. Nothing could be more erroneous peculiar alternation of the first person singular -a of as contrasted with pemp-o "I send," with its trebly symthe perfect with the -o of the present that gives them bolic change of the radical element (reduplicating pe-, Greek forms, nevertheless, as pepomph-a "I have sent," spiritualized essence of pure inflective form. In such resented the high-water mark of inflection, a kind of alternations like drink and drank as though they repbolic" processes.14 There are linguists that speak of What is true of fusion is equally true of the "sym-

s into the unified word books would be felt as a little -If the form pattern represented by the word books unconsciously about the matter somewhat as follows: less complete than it actually is. One reasons, or feels, terns as deer: deer, ox: oxen, goose: geese to complibook: books, if there were not such conflicting patlittle doubt that the fusion of the elements book and cate the general form picture of plurality, there is ndical element and the affix may be taken in a If every noun plural in English were of the type of broader psychological sense than I have yet indicated. It is necessary to understand that fusion of the

"See pages 126, 127

as inflective.

cannot have quite so definite, quite so autonomous, sion," geese "symbolic fusion" or "symbolism." 15 all the more eagerly to the acceptance of the word as cannot linger on the constituent elements, it hastens the unity of the complete word is more strongly emabout the juncture, where the affixed element cannot tween depth and goodness. Where there is uncertainty good-ness in spite of the functional parallelism beand ox themselves, just as the conceptual force of the is anticipated by, or appropriated by, the words book ox) and a clear symbol of plurality. There is a slight chanical combinations of the symbol of a thing (book is predicated of certain selected concepts. The words They are plural elements only in so far as plurally the word oxen, the pluralizing elements -s and en is identical, as far as use is concerned, with that of tion," books "regular fusion," depth "irregular fua whole. A word like goodness illustrates "agglutina phasized. The mind must rest on something. If it rightly claim to possess its full share of significance in dep-th is appreciably weaker than that of -ness in in books and ox-en. A little of the force of s and en psychological uncertainty or haze about the juncture books and oxen are therefore a little other than mevalue as we might at first be inclined to suppose

accurate, the significance of the -ness is not quite as marked than in the -ness of goodness. To be strictly ments in an agglutinative term may be even more this extent, that it requires to be preceded by a parinherently determined, as autonomous, as it might be It is at the mercy of the preceding radical element to The psychological distinctness of the affixed ele

¹⁶ The following formulæ may prove useful to those that are mathematically inclined. Agglutination: c = a + b; regular uct of phonetic forces that brought about irregularities of It is quite likely to have developed as a purely mechanical proto imply that there is any mystic value in the process of fusion (b-y)+(x+y); symbolism: c=(a-x)+x. I do ious sorts. fusion: c = a + (b - x) + x; irregular fusion: not wish

> cases of affixing, that it is natural to overlook its and every type of radical element, if we could say ness could be affixed as an abstractive element to each reality and to emphasize rather the juxtaposing or much a matter of course in the great majority of ideas. least, belong to the abstracter class of derivational the agglutinated elements are relational or, at the tive type, particularly if the concepts expressed by be looked upon as an example of the ideal agglutinathat runs to synthesis of this loose-jointed sort may appreciably nearer the agglutinative pole. A language ("the state of being good"), we should have moved ("the state of being away") as we can say goodness ness ("the quality or state of water") or awayness fightness ("the act or quality of fighting") or wateragglutinative nature of the affixing process. If lusion here, however, is so vague and elementary, so power is thus, in a manner, checked in advance. The ticular type of such element, an adjective. Its own the

or verbalized by the affixing of elements that are "burn in the house." It may be definitely nominalized or generality; inikw-ihl is still "fire in the house" or exigencies of the sentence. The derivational eler is just as clearly verbal: "it burns in the house." How nominal form: "the burning in the house, the fire inikw-ihl-i, with its suffixed article, is a clear-cut exclusively nominal or verbal in force. For example, by "fire," now by "burn," according to the syntac verbal as of a nominal term; it may be rendered no radical element inikw- "fire" is really as much of a word inikw-ihl "fire in the house" is not as definitely shall return to our "fire in the house." 16 The Nootka in the house"; inikw-ihl-ma, with its indicative suffix, ihl "in the house" does not mitigate this vag formalized a word as its translation suggests. The Instructive forms may be cited from Nootka. We

"See page 104.

weak must be the degree of fusion between "fire in

is apparent from the fact that the formally indifferent the house" and the nominalizing or verbalizing suffix

a full-fledged word, ready for use in the sentence. The

inikwihl is not an abstraction gained by analysis but

form-affixes, they are simply additions of formal imnominalizing 'i and the indicative/ma are not fused

minih; it is still either "fires in the house" or "burn we reach the -'i or -ma. We can pluralize it: inikw-ihlnominal nature of inikwihl in abeyance long before port. But we can continue to hold the verbal or

plurally in the house." We can diminutivize this plu-

fires in the house, the little fires that were once burnwe add the preterit tense suffix -it? Is not inikw-ihl-"burn plurally and slightly in the house." What if ral: inikw-ihl-minih-'is, "little fires in the house" or outer (phonetic) cohesion with the elements that prefires were burning in the house." We recognize at once as in the indicative inikwihl-minih'isit-a "several small ing in the house." It is not an unambiguous verb until inalized; inikwihl'minih'isit-'i means "the former small burning in the house"? It is not. It may still be non-'minih-'is-it necessarily a verb: "several small fires were our own affixes never have. They are typically agglucede them, have a psychological independence that content and aside, further, from the degree of their from the relatively concrete or abstract nature of their that the elements -ihl, -'minih, -'is, and -it, quite aside it is given a form that excludes every other possibility, tinated elements, though they have no greater external slant clearly towards the agglutinative method? Then make use of the principle of fusion, both external and not follow that an agglutinative language may no than the -ness and goodness or the -s of books. It does from the radical element to which they are suffixed independence, are no more capable of living apart extent. It is a question of tendency. Is the formative psychological, or even of symbolism to a considerable the language is "agglutinative." As such, it may be

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thetic. prefixing or suffixing, analytic, synthetic, or polysyn-

expression of relational concepts in the word are necessary to the notion of "inflection." concepts. Both fusion as a general method and the ments and with elements expressing derivational crete relational concepts" (group III).18 As far as TUTOI cepts (group II),17 it must involve the syntactic resion operate merely in the sphere of derivational conlogically impure relational concepts with radical ele-Latin and Greek are concerned, their inflection conlations, which may either be expressed in unalloyed lusion has an inner psychological as well as an outer sists essentially of the fusing of elements that express phonetic meaning. But it is not enough that the fu-Latin or Greek uses the method of fusion, and this To return to inflection. An inflective language like (group IV) or, as in Latin and Greek, as "con-

"See Chapter V.

gramples of fusion and symbolism as the foregoing. of the demonstrative pronoun (or article) being merely length-med. (There is probably also a change in the tone of the filable.) This, of course, is of the very essence of inflection. It in the subject of an intransitive verb. When the verb is transimental) are expressed without alloy of the material, we get many interesting examples of fusion, even of symbolism. Mi di, e.g., man this, the man" is an absolutive form which may be used is an amusing commentary on the insufficiency of our current the (really passive), the (logical) subject has to take the agentive form. Mi di then becomes mi di "by the man," the vowel ween our conceptual groups II and IV, to create group III. Yet the possibility of such "inflective" languages should not be is, without the admixture of such concepts as number, gender, maptly described as an isolating language, aside from such relational concepts (e.g., the genitive, group II are but weakly expressed, if at all, and in which the denied. In modern Tibetan, for instance, in which concepts of the method of fusion itself tends to break down the wall trary concept than it need be. At the same time it is true that and tense, merely because such admixture is familiar to us in Latin and Greek, we make of "inflection" an even more arbilanguages that express the syntactic relations in pure form, that "If we deny the application of the term "inflective" to fusing guistic classification, which considers "inflective" as worlds asunder, that modern Tibetan may be the agentive or instrursolat-

emphasize both a technique and a particular content value of the term as descriptive of a major class. Why at one and the same time? Surely we should be clear symbolic languages that do not express relational contive" at all. What are we to do with the fusional and or the other. "Fusional" and "symbolic" contrast with in our minds as to whether we set more store by one cepts in the word but leave them to the sentence? "agglutinative," which is not on a par with "inflecaffixing, symbolic—this also seemed insufficient for the as too merely quantitative for our purpose. Isolating, dismissed the scale: analytic, synthetic, polysynthetic, languages that express these same concepts in the word And are we not to distinguish between agglutinative reason that it laid too much stress on technical exconsistently developed scheme, as a hint for a classificative" as a valuable suggestion for a broader and more We shall do best, it seems to me, to hold to "infleois a preferable scheme, but still skirts the external ternals. Isolating, agglutinative, fusional, and symbolic But to have thus defined inflection is to doubt the the language. The other two classifications, the first tion based on the nature of the concepts expressed by —in so far inflective-like—and those that do not? We give us the opportunity to subdivide our main confusion, may be retained as intercrossing schemes that based on degree of synthesis, the second on degree of

ceptual types.

It is well to recall that all languages must needs a supress radical concepts (group I) and relational ideas (group IV). Of the two other large groups of concepts (group IV). Of the two other large groups of concepts (group III)—both may be absent, both present, or only one present. This gives us at once a simple, incisive, and absolutely inclusive method of classifying all known absolutely inclusive method of classifying all known

languages. They are:

A. Such as express only concepts of groups I and IV; in other words, languages that keep the syntactic relations pure and that do not possess the power in

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means of affixes or internal changes.¹⁹ We may call these Pure-relational non-deriving languages or, more tersely, Simple Pure-relational languages. These are the languages that cut most to the bone of linguistic expression.

B. Such as express concepts of groups I, II, and IV; in other words, languages that keep the syntactic relations pure and that also possess the power to modify the significance of their radical elements by means of affixes or internal changes. These are the Pure-relational deriving languages or Complex Pure-relational languages.

G. Such as express concepts of groups I and III;20 in other words, languages in which the syntactic relations are expressed in necessary connection with concepts that are not utterly devoid of concrete significance but that do not, apart from such mixture, possess the power to modify the significance of their radical elements by means of affixes or internal changes.²¹ These are the *Mixed-relational non-deriv*-

¹⁸I am eliminating entirely the possibility of compounding two or more radical elements into single words or word-like phrases (see pages 64-67). To expressly consider compounding in the present survey of types would be to complicate our problem unduly. Most languages that possess no derivational affixes of any sort may nevertheless freely compound radical elements (independent words). Such compounds often have a fixity that simulates the unity of single words.

whe may assume that in these languages and in those of the per lational concepts are expressed in "mixed" form, that such a concept as that of subjectivity, for instance, cannot be expressed without simultaneously involving number or gender or that an active verb form must be possessed of a definite tense. Hence group III will be understood to include, or rather absorb, group IV. Theoretically, of course, certain relational concepts may be expressed pure, others mixed, but in practice it will not be found easy to make the distinction.

^a The line between types C and D cannot be very sharply drawn. It is a matter largely of degree. A language of markedly mixed-relational type, but of little power of derivation pure and simple, such as Bantu or French, may be conveniently put into type C, even though it is not devoid of a number of derivation between those of the pure of derivation of the conveniently speaking, languages of type C may be considered as highly analytic ("purified") forms of type D.

of their radical elements, by means of affixes or inrelations are expressed in mixed form, as in C, and III; in other words, languages in which the syntactic ing languages or Simple Mixed-relational languages tive" languages, some "polysynthetic," others merely most familiar with as well as a great many "agglutina Here belong the "inflective" languages that we are ing languages or Complex Mixed-relational languages ternal changes. These are the Mixed-relational derivthat also possess the power to modify the significance Such as express concepts of groups I, II, and

and D)? And, in the second place, does it keep the concepts into linguistic symbols. Does the language, in repeat, does not attempt to take account of the techinseparable elements (types A and C versus types B fundamental questions concerning the translation of nical externals of language. It answers, in effect, two to me, is the more fundamental of the two. We can versus types G and D)? The second question, it seems admixture of the concrete or not (types A and B avoidable in the ordering of a proposition, free of an basic relational concepts, such as are absolutely unthe first place, keep its radical concepts pure or does the following form: therefore simplify our classification and present it in it build up its concrete ideas by an aggregation of This conceptual classification of languages, I must

Pure-relational Languages Mixed-relational Languages $\{C, D\}$ Simple Simple Complex

Complex

tive, a fusional, and a symbolic sub-type, according to types A, B, C, D may be subdivided into an agglutinahuman speech. It needs to be amplified. Each of the an easy, descriptive survey of the many varieties of The classification is too sweeping and too broad for

> guages could be termed "agglutinative isolating," "fusional-isolating," and "symbolic-isolating." derivational, not the relational, concepts. Such lanapplying in their case merely to the treatment of the terms "agglutinative," "fusional," and "symbolic" This is also true of many languages of type B, tl pressed by the position of the words in the sentence isolating languages the syntactic relations are ex isolating sub-type, characterized by the absence of all element. In type A we distinguish in addition an athxes and modifications of the radical element. In the the prevailing method of modification of the radical Types of Linguistic Structure

be added as descriptive terms. It goes without saying as another set of prefixes following the first set or in or mixed) are fused with the radical element, possibly form of prefixes, while the relational elements (pure guistic morphology. Further, should it prove desirable dantly illustrated from the descriptive facts of linextent. In an "agglutinative-fusional" language the is affixed elements or that does so to a preponderating winsist on the degree of elaboration of the word, the the form of suffixes or as part prefixes and part suffixes. mally be taken to mean one that agglutinates all of terms "analytic," "synthetic," and "polysynthetic" can merely theoretical possibilities, they can be abunallows a greater independence to those that indicate derstand one that fuses its derivational elements but By a "fusional-agglutinative" language we would underivational elements are agglutinated, perhaps in the III and IV. An "agglutinative" language would norrelations. All these and similar distinctions are not group II, the second to that of the concepts of groups pound referring to the treatment of the concepts of his difference, if desired, the first element of the commother. Compound terms could be used to indicate need not in the least be identical with that used for that the method of handling one group of concepts This brings up the important general consideration

and are not likely to develop beyond the synthetic that languages of type C also are prevailingly analytic that languages of type A are necessarily analytic and

set aside as either too difficult to draw or as irrelevant tween agglutination and fusion may, if desired, be under the head of "fusion"; even the difference be of synthesis may be entirely ignored; "fusion" and ing to the needs of a particular discussion. The degree advantage, that it can be refined or simplified accordclassifying languages here developed has this great or that feature or point of view. The method of a theoretical standpoint. But we are too ill-informed represented than others that are just as possible from certain linguistic types are more stable and frequently tively to another language. All this is not to deny that it, from two or three independent standpoints, relaevolved a flexible method which enables us to place put each language in a neat pigeon-hole than to have plex historical structures. It is of less importance to to the issue. Languages, after all, are exceedingly com-"symbolism" may often be combined with advantage Much depends on the relative emphasis laid on this as yet of the structural spirit of great numbers of that is other than flexible and experimental. languages to have the right to frame a classification But we must not make too much of terminology

cepts so numbered in the preceding chapter. The let down the subjoined analytical table of selected types ımportance.22 ters a, b, c, d refer respectively to the processes of The columns II, III, IV refer to the groups of conthe possibilities of linguistic morphology by glancing nique is employed, they are put in the order of their fusion, and symbolism. Where more than one tech isolation (position in the sentence), agglutination The reader will gain a somewhat livelier idea of

so In defining the type to which a language belongs one must be careful not to be misled by structural features which are

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necessary connection in theory, have nevertheless a at random can well be. Their similarity goes beyond geographically remote from each other and as unconenvisaged by the scheme of classification. Thus, a most other in many details or in structural features not of elaboration of a given language. Nevertheless, in a great similarity on the surface. We are here conthinkable apart from each other, that seem to have no almost seem that linguistic features that are easily the generalized facts registered in the table. It would nected in a historical sense as two languages selected between Takelma and Greek,23 languages that are as interesting parallel could be drawn on structural lines into the same class have a way of paralleling each gestive and remarkable fact, that languages that fal numerous instances we may observe this highly sug features of the spirit, the technique, and the degree ærned with the most fundamental and generalized ture. Nor that the fact that two languages are similarly from exhausting the possibilities of linguistic strucdassified does not necessarily mean that they present I need hardly point out that these examples are fai

as it is precisely the foreigner, who approaches a new language spinster and Webster have been completely disconnected from the etymological group of spin and of weave (web). Similarly, there are hosts of related words in Chinese which differ in the help doing, he can assign no particular function to the phonetic variation as such. Hence it forms no live feature of the lanthe etymological relationship, as in certain cases he can hard! and do not enter into the unconscious patterning of the lanmere survivals of an older stage, which have no productive like life in vestigial features which the native is either completely with a certain prying inquisitiveness, that is most apt form of the language. The caution is all the more necessary guage-mechanism and must be ignored in absence of a final consonant. Even where the Chinaman feels initial consonant, the vowel, the tone, or but, as far as the feeling of the present English-speaking genera-tion is concerned, it cannot be said to really exist at all; guage. All languages are littered with such petrified bodies. The inglish ster of spinster and Webster is an old agentive suffix, defining the general in the presence or

tive of Indo-European. maware of or feels merely as dead form.

²⁶ Not Greek specifically, of course, but as a typical representa Note.—Parentheses indicate a weak development of the process in question.

Fundamental Type	П	III	IV	Technique	Synthesis	Examples	
G (Simple Mixed- relational)	(b)	b	· —	Agglutinative	Synthetic	Bantu	
terationary	(c)	c, (d)	а	Fusional	Analytic (mildly synthetic)	French*	r ypes
D							ع
(Complex Mixed- relational)	b, c,	b.	þ	Agglutinative (symbolic tinge)	Polysynthetic	Nootka (Vancouver Island) †	ţ
relational)	c, (d)	ь		Fusional-agglutinative	Polysynthetic (mildly)	Chinook (lower	Š
	c, (d)	c, (d), (b)	~~	Fusional	Polysynthetic	Columbia R.) Algonkin	Tunguistic
	c, d	c, d c, d	a —	Fusional Fusional (symbolic tinge)	Analytic Synthetic	English Latin, Greek, Sanskrit	٥
	c, b,	c, d	(a)	Fusional (strongly	Synthetic	Takelma	n ucture
	d, c	c, d	(a)	symbolic Symbolic-fusional	Synthetic	(S. W. Oregon) Semitic (Arabic, Hebrew)	200

^{*} Might nearly as well have come under D.

[†] Very nearly complex pure-relational.

of some deep, controlling impulse to form that domicendency to cluster or to follow together in the wake descriptive and historical grammars of diverse lanonly feel them rather vaguely at best and must conwhat these fundamental form intuitions are. We can and avoid certain linguistic developments in common. need not be too much surprised to find that they seek possession of the same submerged form-feeling, we from them the great underlying ground-plans. guages. Some day, it may be, we shall be able to read symptoms. These symptoms are being garnered in our tent ourselves for the most part with noting their We are at present very far from able to define just the intuitive similarity of two given languages, of their nates their drift. If, therefore, we can only be sure of

great value as an entering wedge into the discovery constructions of the speculative mind, are slippery own feeling is that it does, but classifications, neat ceptual groups is likely to drive deeper or not. My whether the suggested classification into four conof the intuitional forms of language. I do not know and "inflective" (read "fusional") cannot claim to have as the current one into "isolating," "agglutinative," application of a rather curious, yet simple, historical Meanwhile we may take some encouragement from the tunity before they have the right to cry for acceptance things. They have to be tested at every possible opporstructure. Now if we take great groups of genetically related languages,24 we find that as we pass from one preserve longest what is most fundamental in their it is only reasonable to suppose that they tend to test. Languages are in constant process of change, but frequently encounter a gradual change of morpholog to another or trace the course of their development we ical type. This is not surprising, for there is no reason Such a purely technical classification of languages

source. See Chapter VII. *Such, in other words, as can be shown by documentary or comparative evidence to have been derived from a common

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ceptual type tends to persist the longest of all. modifiable but far less readily so, and that the conseems to change most readily, that the technique is degree of synthesis), it is the degree of synthesis that sented in our table (conceptual type, technique, and that of the three intercrossing classifications repreits original form. It is interesting, however, to note why a language should remain permanently true to

of D to C (French as contrasted with Latin²⁶). Of a passage from a pure-relational to a mixed-rela fundamental type (pure-relational, mixed-relational), other as a simple and a complex form of a still more types A:B and C:D are respectively related to each as contrasted with Modern Tibetan and Chinese) and (Shilluk as contrasted with Ewe;25 Classical Tibetan of conceptual type within groups of related languages is highly suggestive as far as it goes. The only changes examples. tional type or vice versa I can give no convincing that are to be gleaned from the table are of B to A far too scanty to serve as a real basis of proof, but it The illustrative material gathered in the table is Bu

drawn that possibly the contrast between synthetic natural inference does not seem to have been often knt) have frequently broken down into analytic forms guage. That highly synthetic languages (Latin; Sanspermanence there is in the technical features of lan-"inflective" features are well-known facts, but the (French; Bengali) or that agglutinative languages (Finnish) have in many instances gradually taken on The table shows clearly enough how little relative

[&]quot;These are far-eastern and far-western representatives of the "Soudan" group recently proposed by D. Westermann, The genetic relationship between Ewe and Shilluk is exceedingly remote at best

than in D with considerable misgivings. Everything depends on how one evaluates elements like -al in national, -te in bonte, or re in retourner. They are common enough, but are they as alive, as jittle petrified or bookish, as our English -ness and -ful This case is doubtful at that. I have put French in C rather

example we are likely to find, while Classical Tibetan sional) is not so fundamental after all. Turning to the and analytic or agglutinative and "inflective" guages. Ewe is either isolating or only barely agglutinear to being a perfectly isolating language as any Indo-Chinese languages, we find that Chinese is as of the most definitely symbolic languages I know native, while Shilluk, though soberly analytic, is one imperative thong); but both are pure-relational lan has not only fusional but strong symbolic features gian is remote, though practically certain; while the both of these Soudanese languages are pure-relational (e.g., g-tong-ba "to give," past b-tang, future g-tang, and Takelma, remotely related languages of Oregon, typically agglutinative, Salinan is no more synthetic type. Yana and Salinan are superficially very dissimilar former,27 both conform to the complex pure-relational The relationship between Polynesian and Cambodsuspicion that in the contrast of pure-relational and almost all the details of their structure; both are comregards technique and synthesis in general but in flective") as Latin; both are pure-relational. Chinook languages. Yana is highly polysynthetic and quite latter has more markedly fusional features than the mixed-relational (or concrete-relational) we are conent ways. Facts such as these seem to lend color to the plex mixed-relational languages, though in very differhave diverged very far from each other, not only as than and as irregularly and compactly fusional ("inthe contrast of isolating, agglutinative, and fusional.²⁸ fronted by something deeper, more far-reaching, than

would point out the salient structural characteristics of a num ber of languages, so selected as to give the reader an insight into the formal economy of strikingly divergent types. would be needed to breathe life into the scheme. Such a volume a few schematic indications are possible. A separate volume In a pite of its more isolating cast.

In a book of this sort it is naturally impossible to give an adequate idea of linguistic structure in its varying forms. Only adequate idea of linguistic structure in its varying forms.

CHAPTER VII

Language as a Historical Product:

dialects of the same language rather than identically such as speed, stress, and tone, that give life to spoken tions of vowels and consonants, in all those features, of particular vowels and consonants and of combinacombinations of words are used, in the pronunciation the relative frequency with which particular forms or detail-in choice of words, in sentence structure, in each individual would reveal countless differences of speech habits. A minute investigation of the speech of social circles, are never absolutely at one in their ing precisely the same dialect and moving in the same dividuals of the same generation and locality, speakthe same language. Everyone knows that language is variable. Two in language. In a sense they speak slightly divergent

closely related dialects, say English as spoken by the in or absorbed by certain major agreements—say of relatively unified group in contrast to the body of each other, the body of Londoners forms a compact, much the individual speakers in each city differ from individual and dialectic variations. If we take two New Yorkers. The individual variations are swamped the average New Yorker, we observe that, however 'middle classes" of London and English as spoken by There is an important difference, however, between