6.1 COMPLEXITY OF LANGUAGE

each language to account for changes it has undergone. tional and occupational. All of these must be studied and described for there are subsets of dialects of various types: geographical, social, funcshows variations from one group of speakers to another. In any language though a language has common structural features and vocabulary, it also grammar and vocabulary. But dialect studies have demonstrated that, references may seem to imply that languages consist of a single unified such as English, or Sanskrit, or Old Chinese, or Proto-Semitic. These In discussing languages, we generally refer to them with a generic name,

from social, cultural and political conditions of the speakers. Maintenance of dialects, as well as loss of distinction among them, results Germanic dialects less than two millennia ago, have many dialects. cause the dialects have been in use for several millennia. Even languages like British English and German, which became separated from other the dialects differ considerably. The differences have been amplified bespeakers forming social units in China had little contact with one another, spoken over a vast expanse has many dialects. Moreover, since the settlement of its speakers and so on. A language like Chinese that is its use, by the cultural interrelationships of its speakers, by the duration of Geographical differences in a language are determined by the extent of

change, and in literate societies are considered to be "correct." such as criminals, or a rebellious younger generation, or among rustics. The standard forms are taught in schools, used in general social interand writings. Nonstandard forms may be found among antisocial groups, speech is used in literary, religious, prophetic or even political utterances standard - in modern societies, an uneducated. The cultivated form of three forms of speech: a cultivated, a common or standard, and a nonrelationships. In general we may expect even in nonliterate groups at least Social differences are determined almost completely by cultural inter-

their variety differs from language to language, we may speak of at least Functional differences also reflect cultural interrelationships. Although

> ernment officials have a comparable way of reference, as by using used for the former Turkish government. The American media and govrefer to the emperor in somewhat the same way as the Sublime Porte was operetta, the Mikado; the word means "honorable gate" and was used to dignified style was applied with humorous effect in Gilbert and Sullivan's goday, only the Japanese emperor may use chin "I." A reflection of the two styles, formal versus informal, though in many languages there are Washington in reference to the government. to and by dignitaries. And as a unique phenomenon in languages, at least more. Until recently Japanese included, besides a formal and an informal, in epistolary style for use in formal letters; further, there was a style used

vocabularies. These may be applied in any of the subsets sketched above. linguists, have developed their own jargons, which consist largely of special subsets. Specialists of various kinds: engineers, politicians, jockeys. dard, standard and cultivated speech. Somewhat different are occupational be, then, geographical as well as formal and informal varieties of nonstansocial force was greatest, with little or no geographical overlay. There may schooling. Among British statesmen, like Churchill, on the other hand, the political statements with a New England accent, modified by eastern imposed on each other. It is well known that President Kennedy made his Such geographical, social and functional varieties of language are

by these changes virtually be forced to introduce changes in their language. their social status, their relations to their associates, their occupations, and implication for each idiolect. If we constructed a model for a language or a language family, we would language of a single speaker. Speakers may change their place of living, by a group of speakers. Subsets are also found within an idiolect, the have to include in it such multistratal units for each dialect, and by These statements apply to language as a complex set of conventions used

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oaks. As the Roman emperors came to insist increasingly on their dignity, retired, language referring to them also changes; since automobile transinterplay of dialects and languages. rarely encountered. When the Greeks established themselves in the and groups. In this way variety in language provides built-in mechanisms third person plural verb forms are still used in formal address to individuals Hellenic peninsula, they transferred reference of the word for "beech" to portation has replaced horse-drawn vehicles, terms like "livery stable" are losses. For example, as technological features are introduced, modified or for change. Some linguists ascribe change in language primarily to the this day in German, where the third person plural Sie "you" < "they" and the equivalent of "they" was used in addressing them, leaving reflexes to for which the third person plural pronoun could be substituted. As a result, they were referred to in the plural with the equivalent of "your majesties," These subsets of a language provide the possibility of additions, changes,

Besides taking account of individual use as opposed to social use in

assume that language acquisition is the basic cause of change in possibilities are provided for the introduction of change. Some linguists generations of speakers. As children acquire their language, further sketching the complexity of language, we must also note use by different

such study. Our results are more useful, however, if we compare the considerable changes in structure (see chapter 10). varying language of two or more periods that have been differentiated by dimension of time. We may arbitrarily select any two points of time for must view the modifications of the various components of language in the Since change in language is the prime concern of historical linguistics, we

century - alone withstood spread of this change from across the Atlantic. delphia - the second largest city in the British Empire in the eighteenth in America except Philadelphia lost preconsonantal r; apparently Philacenter. Hans Kurath (1939) pointed out that all the chief colonial centers river. Changes may, on the other hand, be transmitted from center to ences, so-called isoglosses, along basic routes of travel, such as the Rhine lines of communication. If so, we may find wedge-shaped lines of differ-Upon introduction, they may be adopted from speaker to speaker, along lects. They may also be introduced from without, from other languages. Such changes may be introduced in the interplay of geographical dia-

language of others. usages. If such groups are influential, these innovations may affect the linguists or specialists in space research may introduce new forms and Any group of speakers with distinct patterns of usage, such as students,

Studies of the social dialects of other languages have disclosed similar from nautical language, where it meant "afloat, swimming," and the like. example is the word flott "excellent, beautiful," which students borrowed study he indicated especially the sources of various German words. One investigation of the German student language, published in 1895. In this Among studies of social dialects on a language is Friedrich Kluge's

themselves in an elevated social situation. normally use r in words like third are very careful to use it when they find certain social situations (1972: 43-69). For example, speakers who do not how speakers in New York City may favor specific pronunciations in outside family groups. Investigations by William Labov have demonstrated reflecting the greater use of the word for "house" in communication in a prestige area was extended more widely for "house" than for "mouse," social contexts. A change of the Germanic vowel [u1] to [y1] that originated "house" and "mouse" in Dutch. The words obviously are used in different 328-31), G. G. Kloeke illustrated successive changes of the words for an admirable study, nicely summarized in Bloomfield's Language (1933: Other such studies have been concerned with the spread of changes. In

Accordingly, the recognition that language is composed of geographical,

and changes have been extended social, functional and occupational dialects, and of dialects varying with the age of speakers, illuminates the ways in which languages have changed

6.2 DIALECT GEOGRAPHY

showed irregularities. It was then tentatively assumed that standard lansuch problems elsewhere, some elements in the standard languages still Verner for the first Germanic consonant shift, and by other linguists for change in language was supported by interest aroused by the Romantic everyday people. Study of their speech to deepen the information about guages, such as literary English, contained irregularities because they were cal dialects. In spite of the clarifications produced by Grassmann and mixed. To find pure languages, one would have to collect the speech of the led to great interest in the study of different dialects, first of all geographi-The growing convictions about the regularity of sound change after 1870

show that dialects as well as literary languages had respectable pedigrees, also less misleading, labels are used, such as Northern, Midland and subsequently merged to form English. Similarly, in Germany the labels for Britain the Anglian dialect, and Saxons the Saxon dialect, where they Anglo-Saxon. With this label the suggestion is made that Angles carried to work has had a lasting effect. Old English is still often referred to as ancient tribal groups. In nomenclature and popular conceptions, their problems, as scholars attempted to relate contemporary dialects with Although other scholars followed Schmeller's example, dialect study be-Schmeller (1785-1852) published the first grammar of a dialect, Bavarian some linguists devoted their attention to dialects. In 1821 Johannes A. with folkways. Using more than the occasional phrases of "rustic dialect" ures from the end of the eighteenth century came to concern themselves Southern in the United States. Bavarian and Franconian. In subsequent dialect study, less colorful, and dialects continue old tribal names that are still used as area names, such as fore 1875 was more concerned with social and historical than with linguistic their native speech to the more general literary languages. In an attempt to Robert Burns (1759-96) and Johann Peter Hebel (1760-1826) preferred found in the poetry of William Wordsworth (1770-1850), writers like Following Jean Jacques Rousseau (1712-78), scholars and literary fig-

 ν and f both represent OE f, apparently without pattern, as in νat , $\nu ixen$ to laws that admit no exception." In standard English, for example, initial father in Henry Fielding's novel Tom Jones (1749), every OE f. is a v. versus father, folk. Yet in the Somerset dialect spoken by Sophie Western's Squire Western says vather and volk as well as vat and vixen. Although the neogrammarian hypothesis that "sound change takes place according Under superficial examination the early dialect study seemed to support

of complexity in language. converse of his original aim; it has contributed greatly to our understanding hoping to find similar consistencies there, his work led virtually to the Georg Wenker set out to collect similar material in German dialects,

ties of these two men. Subsequent studies and conclusions have been largely based on the activipatterns for later dialect investigations and interpretation of the results. of his counterpart in France, Jules Gilliéron (1854-1926), it furnished the Wenker's dialect work has the further importance that with the project

terminology used in detailed study of the language data. complete. The plotting of dialect distribution on maps, however, led to the of dialects were to be plotted by the location of their occurrences. material was eventually to be put on a map, and the characteristic features sentences in accordance with the characteristic speech in their districts. 1952: 13-14, for the entire set.) Teachers were asked to transcribe the Sentence 1 reads: Im Winter fliegen die trocknen Blätter durch die Luft everyday matters, were chosen carefully to give data on dialect differences. localities, later expanded to 49,363. The sentences, which dealt with Publication of the maps did not get under way until 1927 and is not yet Sets were then returned to Marburg for analysis. Each of the sources for herum. "In winter the dry leaves fly around through the air." (See Mitzka prepare forty sentences and send them out to schoolteachers in 40,736 collect material from every section of Germany. His procedure was to After preliminary investigation in the Rhineland, Wenker began to

raphers profited by the experience of their predecessors. collecting dialect materials were improved as subsequent dialect geogdialect materials were analysed and described. Moreover, procedures of varying patterns of isoglosses was developed as the German and French characteristic features. The interpretation and linguistic significance of used for a line drawn from location to location along the outer limits of in map-making. On the pattern of isobar and isotherm, isogloss is a term investigated. Terminology for dialect spread was fashioned after that used dialect geographers compile dialect atlases containing maps of the features dialect geography, or dialectology. In plotting their findings on maps, The study of the varying forms of speech in one language is known as

these, or even to determine them. These shortcomings are especially recording; with untrained workers there can be no attempt to correct archives in Marburg. More serious shortcomings lie in the transcriptions, serious in phonological study, for which the German project was best which were made by untrained observers. Everyone has idiosyncrasies in this day scholars who wish to use the German materials must go to the had shortcomings; for one thing, it has not been completely published. To provide great breadth of information. Yet Wenker's dialect project also relatively small area like that of Germany, close to 50,000 recordings The advantage of the German collection is its broad coverage. For a

> ent, efforts were made to repair them. ation, less on lexical differences. When these shortcomings became apparsuited. The forty sentences provide little material on morphological vari-

supplements, ample materials are available for German dialect study, and for subsequent interpretation. Tape recordings have the further advantage undertook in the 1950s to collect tape recordings of German dialects from everyday items, such as plants and animals. His results are being published sent out a second set of materials, questions designed to secure names of of them. To provide the deficient lexical material, Walter Mitzka in 1938 undertaking. provision has been made to remedy the deficiencies of Wenker's initial that copies may readily be provided to other investigators. With these more than 1,200 localities. His recordings, though brief, preserve speech To provide contemporary records of pronunciation, Eberhard Zwirner in a German word-atlas, and in monographs dealing with individual items. materials of the atlas. Bach (1950: 214-26) gives a densely printed selection Numerous monographs were published, supplementing the inadequate undertook the collection and description of speech in various localities. To provide material collected by trained observers, young scholars

one worker, Edmond Edmont, to collect all material for the French atlas. the materials of many subsequent projects were published must therefore be credited with providing the pattern according to which however, the French atlas was completely published by 1910. Gilliéron coverage than had the German project. Under its superb organization, congenial surroundings, he collected material by direct questions rather ent records. Cycling from point to point, where he established himself in Edmont, who had an excellent ear, provided accurate, reliable and consist pitfalls encountered by his German predecessor. He selected and trained 1896-1900, Edmont gathered material from 639 locations, providing less than through a highly restricted set of sentences. In the years of collecting, Gilliéron, editor of the French atlas, planned from the start to avoid the

6.3 MODELS AND TECHNIQUES FOR COMPREHENDING LINGUISTIC_COMMUNITIES

deplore in its literal sense but that we in great part maintain. between these languages. They did so by likening related languages to called attention to the connections between Sanskrit, Greek, Latin and depicting linguistic relationships was the family. After Sir William Jones communities in relation to one another. The first model widely used for In addition to examining language as a structure, historical linguists promembers of a family, and in this way created terminology that we may Germanic, linguists set out to determine and represent the relationships posed models for comprehending the languages maintained by linguistic

We speak of the Indo-European group and other such grou

genealogical, or often genetic, in spite of the biological connotation of a common source we call cognates. The type of classification is known as family we call related; words or other linguistic entities that we can trace to that Greek is descended from Proto-Indo-European. The languages in a used, but the connotations of the adjective led to its disuse. We also say Proto-Indo-European; formerly the term primitive Indo-European was may be called sister languages. And we may speak of the parent language, language family. Greek and Latin, and other Indo-European languages,

still others - the family tree. some. Shortly after the middle of the nineteenth century, a new model was ships that are hard to label with relationship terms which are not cumbermembers may grow old without dying, and may develop new interrelationtime, a language family behaves differently from a natural family, for its sisters, but rather as distant cousins. When viewed over a great expanse of shortcomings of the family model are obvious, for modern Germanic pendence by labeling them sister languages. After some thought, however, different from those of Greek or Latin; we indicate the subsequent indeproposed that solved some of these problems, continued others, and raised languages like English and German are related to Modern Greek not as languages. The Germanic languages had obviously undergone changes The family model was useful in working out the interrelationships of

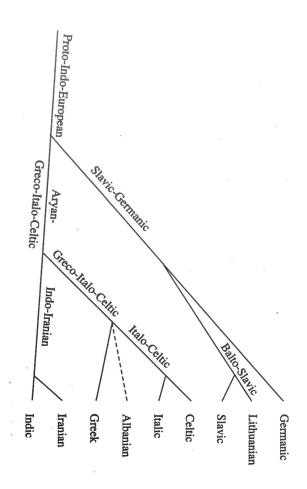


Figure 6.1 Schleicher's Indo-European family tree.

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ships in both time and space. branches through smaller and smaller sub-branches, which show relationlanguages and also their various further developments - from original is more sophisticated than that of the family, permitting a clear view of Schleicher, who was strongly influenced by views on evolution. His model similar to that between branches of a tree was propounded by August The suggestion that the relationship between subgroups of a language is

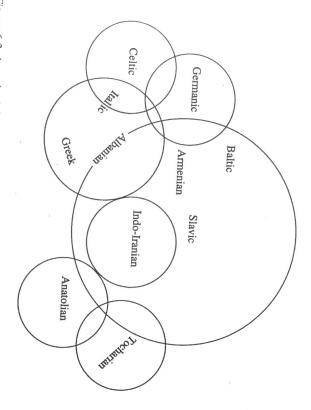
early, dangers in this model became apparent. Germanic, which in turn is a branch of Indo-European and so on. But, very view of a language group as a tree. We say that English branched off from As with the family model, we use terminology today that is based on the

by the language itself. vior. Changes are introduced in them by their speakers, not spontaneously conventions, like conventions of fashion, games and other human behaanimals or trees, do not have an independent existence. They are sets of its depiction of a language as a biological organism. Languages, unlike One shortcoming the family-tree model shares with the family model is

long before had separately branched off from the parent language. some, we find common changes taking place in neighboring languages that also Sanskrit words, have been borrowed into English. Even more troubleearlier, such as Latin or Sanskrit. Yet we know that many Latin words, and cation by another branch or sub-branch that separated from the stem distinct branch of the Indo-European tree, it should permit no modifihowever, is the view of language change it requires. If English is really a The shortcoming that caused replacement of the family-tree model,

model still influences views and provides terminology. Virtually all geneainglish, Middle English, New English. These terms suggest that we view on results from names of successive stages of a language, like Old ogical relationships have been based on it. But a troublesome misconceplew English as a direct descendant of Old English. We know, however, milarly, New High German is not a direct descendant of the Middle High idland form of speech, while our chief Old English materials have come at modern standard English developed from the London dialect, a Yet because of its simplicity and partial appositeness, the family-tree man found in important medieval literature. New High German is wn to us in a West Saxon form. To try to trace modern standard English s. The variety of influences became clear as dialect studies were gists and other nonlinguists seem to assume that linguists account for ectly to the language of Beowulf or of Alfred's works causes difficulties. casingly pursued suages through a succession of sound laws rather than as conventions s of linguistic history are concealed. Equally troublesome, archaethern German dialect. In using the family-tree model, these important ntially a central German dialect, while Middle High German was a atained by linguistic communities that have undergone various influ-

guages may be depicted as follows. theory, proposed in 1872 by Johannes Schmidt, the Indo-European lanpond that are caused by an object hitting the surface of the water. With this languages spoken over a given area. These then may spread like waves on a theory, changes may be introduced at some point in space of a language or disclosed how changes were spread in language. In accordance with the ing for linguistic changes, the wave theory was proposed as dialect studies Primarily because of the inadequacy of the family-tree theory in account-



Indo-European languages. Figure 6.2 A revised form of Schmidt's representation of the distribution of the

tree theory. Both, however, view language far too simply. and changes affecting them, the wave theory is preferable to the family-In permitting us to show flexibly interrelationships between languages,

social conventions so complex that a simple biological or geometrical sion of time, was seen to be inadequate. We now view language as a set of any bidimensional model, even when supplemented by the third dimenarea into dialects - and by different social and occupational groupings carried out by dialect geographers showed that a language is subdivided by in which languages or dialects exist side by side. When, however, studies admit no exception" either along the branches of a tree or over an expanse acceptable. For "sound change could take place according to laws that If languages were relatively homogeneous, either theory would be

such models, as well as in the early dialect projects, have provided guidemethods by noting the planning for the American project. model is totally inadequate. Yet the problems encountered in the use of lines for later dialect investigations. We may illustrate the resultant

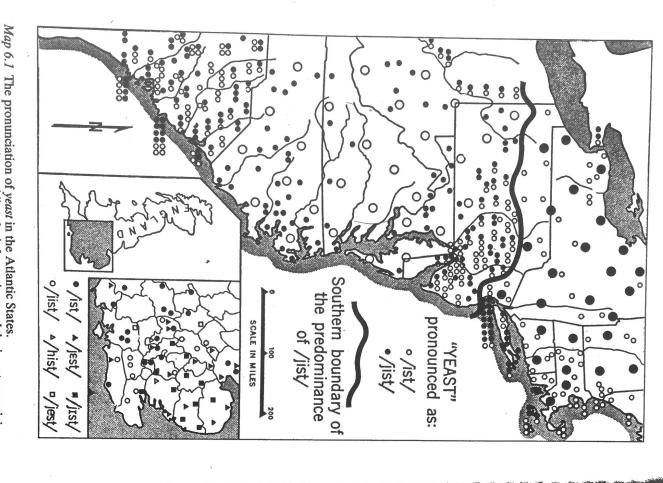
direction of its carefully chosen editor, Kurath, great attention was given these. (See the report of Hans Kurath in Kurath et al. 1939.) Under the the project was designed to avoid shortcomings that had been disclosed by After consultation with linguists who had directed earlier dialect studies,

- 1 Selection and training of field workers.
- 2 Selection of informants and locations to investigate
- 3 Preparation of a questionnaire.

check on possible idiosyncrasies of individual workers that was missing in unduly great. Moreover, the training by Jud and Scheuermeier provided a recordings. Yet the anticipated diversity among the fieldworkers was not number of fieldworkers is essential in spite of the resultant diversity of and Scheuermeier. To cover an area as large as New England, having a Edmont's excellent work. training in the summer of 1931 under two eminent dialect geographers, Jud The fieldworkers, already highly trained linguists, were given further

available to analysts. other pertinent data about speech communities was carefully noted, and is and those with advanced education. All information about speakers and cation and restricted social contacts) those with some formal education; three selected social groups were included: those with little formal eduinclude speakers more than seventy years old. Moreover, speakers from guage. Speakers were chosen from each age group. Since this was the first informants indicates the increasing awareness of the complexity of lanin precision of dialect geography since 1876, the care in selection of large-scale dialect study in the United States, special care/was taken to Just as the selection and training of fieldworkers illustrates the increase

breadth and precision that scholarly resources, finances and time permit. transcriptions. In this way dialect geographers collect material of any tape-recordings are now possible, with which other linguists may check cultural history of New England (Kurath et al. 1939: ix). Simultaneous historians, geographers, sociologists and others interested in the social and linguistic facts could be understood not only by linguists but also by responses. Adequate information was collected and made available so that used, old-fashioned, amusing, or whether it elicited other attitudes or fieldworkers were to note if a speaker indicated that a form was rarely designed to elicit specific forms but also to allow flexibility. Moreover, plings were made to determine points of variation among speakers, which in turn suggested items to investigate. Worksheets were thereupon For the preparation of worksheets comprising the questionnaire, sam-



(1961). Included with the permission of Hans Kurath. American dialect forms can be explored. Taken from Kurath and McDavid the distribution of pronunciation in southern England, by which the sources of Note the precision used in providing the information, and the insert map giving

of dialect collection are so extensive that they are not readily accessible. In pattern. For unless a language area is small and homogeneous, the results tions, rather than preparation of national atlases, now forms the general France, for example, numerous studies covering only a section of the pountry have been undertaken in attempts to provide fuller and more upput, also by regions (see map 6.1). The efforts involved in covering a ation of an atlas (1939–43). Further collecting in America has been carried territory the size of the United States are so huge that such smaller projects re called for. In other countries as well, the arranging of dialect collecdate information than that in Gilliéron's atlas. The American project covered New England, with subsequent publi-

information on the questionnaire has been made available; one can only data on language will be much more readily accessible. pical advances. Instead of maps prepared by workers, they are to be produced by computer. When the procedures have been achieved, detailed hope that the project will be pursued until its aims are met. Unfortunately thas now been stopped. Some of these may be achieved through technoloutlas of Europe, including the European part of the former Soviet Union. One massive project that has been inaugurated aims to provide a dialect

the Dictionary of American Regional English, prepared at the University Computerized procedures have also been applied in the production of wering words from A-C and D-H, have been published. The wellimplex undertaking permits. The vast amounts of data must now be Wisconsin under the direction of Frederic Cassidy. Two volumes, terpreted for their contributions to our understanding of linguistic anned project will no doubt continue publication as rapidly as such a

FINDINGS ON THE EFFECTS OF LANGUAGE CHANGE AND THE SPREAD OF INNOVATIONS

ulted in various contributions to our understanding of language and inge in language, as we indicate in this and later sections. availability of data from the German and French dialect projects

It soon was apparent that the boundaries between languages and those tem. Since the division between High German and Low German was ween dialects could not be precisely defined. Isoglosses differ from item y of the procedures of dialect geography were worked out in solving ing the most highly investigated among language interrelationships, ilems concerning it.

The chief items differentiating High German from Low German are the nglish, but have become fricatives and affricates in High German. lexes of Proto-Germanic p t k. These remained in Low German, as in

The changes in initial, medial, and in final positions may be summarized

The second secon

1 Late PGmc p- t- k- pp- -tt- kk- > OHG pf ts k(x) (we may use the unchanged English items to indicate the original, Proto-Germanic sounds).

Eng. pool: Germ. Pfuhl
Eng. tongue: Germ. Zunge
Eng. cow: Germ. Kuh, but
Swiss kxū

Eng. shape: Germ. schöpfen Eng. sit: Germ. sitzen

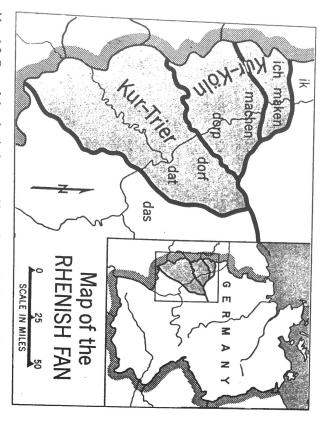
Eng. wake: Germ. wecken, but

Swiss kxu Swiss wekxen 2 Late PGmc -p- -t- -k- -p -t -k > OHG -f(f) -s(s) -x(x)

Eng. hope: Germ. hoffen Eng. water: Germ. Wasser Eng. cake: Germ. Kuchen

Eng. up: Germ. auf
Eng. it: Germ. es
Eng. book: Germ. Buch

According to the principles of sound change formulated by the neogram-marians, we should expect to find that all late PGmc -k-k became x (ch) over the entire High German territory. Sounds in the same environment were assumed to change consistently, without exception, throughout a dialect area. When, however, the data assembled by Wenker's questionnaire were examined, different isoglosses were found for words similar in structure, such as German machen "make," ich "I" (see map 6.2).



Map 6.2 One of the classical areas of investigation in dialect study shows the extent of spread of the change k > x in Germany, and the enclave in which PGmc t is unshifted in dat, wat, it, allet. Shadings indicate the Rhenish Fan and the enclave.

Although the isoglosses for these two words are virtually identical frunce eastern extent of German speech to the neighborhood of the Rhine, at an point they separate. The isogloss for machen crosses the Rhine near the river, somewhat south of Urdingen, the point at which that for idenses the river. The two isoglosses are labeled after the villages, the land of other isoglosses, which fan out at this point, led to the label the land of an and require an explanation.

The explanation can be furnished from cultural history. The Benrath line responds to the extent of Cologne's influence from the thirteenth century; Urdingen line, to its influence from the fourteenth to the sixteenth enturies (see Bach 1950: 133-4). The forms for "make" were fixed at the dy time; those for "I" later. One can account for the different isoglosses by suming that a sound change k > x, had taken place in southern German-peaking territory and that its effects were gradually extended northward. The extent of spread of innovation in any word is determined by the cultural estige of speakers who use it. Findings like those for Germ. machen and the repeated many times over in various dialect studies, as of Chinese as well, at to a more accurate understanding of language change and its spread. They also led to greater concern with social and cultural patterns of communities in which a given language is spoken.

As indicated above, the three voiceless stops *p t k* of Upper German were shifted. The results of the change were extended northward and adopted in varying degrees in accordance with the extent of prestige of the southern German dialects; the absolute limits of adoption may be indicated by a line extending across German-speaking territory from approximately Cologne eastward, just south of Berlin. Subsequently, German dialects have been differentiated largely by the extent to which they employed this rule for each of the three stops in the stated environments. In Low Franconian and Low German the rule was not introduced at all, leading to a differentiation of the continental West Germanic area into two major subgroups, as chart 6.1 indicates.

The importance of identifying cultural areas for their impact on language may be illustrated by the developments in Berlin. When the Benrath line approaches the city, it makes a bend upward and then falls back to the line that would be relatively straight across the German-speaking area. The bend effects the late choice of Berlin as capital. Earlier, the dominant political forces had been in the south. The political shift brought use of High German into the city. The isoglosses reflect the social as well as the linguistic situation. Somewhat comparably, initial p t k (and intervocalic pp tt kk, which apparently were similarly articulated) became the affricates pf ts kx. This shift was not extended as far to the north as was that of medial and final stops, leading to subdivisions of the High German territory (see chart 6.1). The dialects in which this rule was adopted are known as Upper German, in contrast with the Middle German dialects in which the change of medial

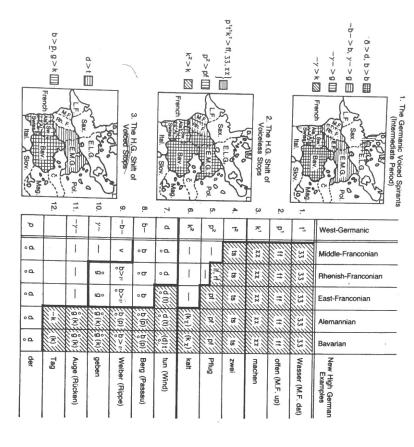


Chart 6.1 The High German Consonant Shift

Language (New York: Holt, 1916, p. 130). Chart 6.1 is taken from Eduard Prokosch, The Sounds and History of the German

was adopted. and final stops was adopted, and Low German, in which neither change

in accordance with the extent of the social groupings. in part by contiguous areas, leads to subdivisions of a given linguistic area the differentiation of dialects. A comprehensive series of changes, adopted changes in the continental Germanic languages may illustrate the bases for forced by the devoicing of b d g in Upper German. The effect of these The distinction between Upper German and Middle German was rein-

ending of the adjective, for example, allet rather than standard German in words like great, Germ. gross, but not in the words cited or the -et alles, (nom. sg. nt.) "all." Although various explanations have been given forms for that, it, what in the Mosel Franconian area. Here -t shows up as -s words, as we may illustrate by the unshifted t in dat, it, wat, the German Even in such large-scale shifts, the changes may not be carried out in all

> t>s was not carried through. We may conclude that syntactic as well as adopted from weakly stressed sentence positions, in which the change of morphological environments may affect the extent of a sound shift environment. We may assume that the unshifted dat, it, wat, allet were for these unshifted forms, they may be ascribed to difference in syntactic

6.5 CLASSIFICATION OF DIALECTS

of former views concerning (1) the regularity of sound change and (2) the useslogan, "Every word has its own history," and by Gaston Paris's statement on Such problems encountered in dialect geography studies led to a questioning language ascribed to the neogrammarians may be illustrated by Gilliéron's fulness of setting up dialects. Extreme rebellion against the tidy view of the virtually imperceptible gradations from dialect to dialect in French, even

every word separately indicates a poor understanding of the social functioning word is a composite of morphemes and phonemes. Since the allophones of the methods resemble lists rather than descriptions. Neither phonemes nor morindividual sounds from proto-languages to the present. Studies based on such of language. Even worse are the linguistic studies that deal with the history of changes different from all other words. To conclude that one should describe phonemes vary with their environment, every word will have undergone "Sound change takes place according to laws that admit no exceptions." A artifact, has its own history. But the statement is as misleading as is the slogan: raphers, like historical linguists who learned much from the neogrammarians. sets and subsets of phonemes and morphemes. Fortunately, dialect geogphemes are independent entities in language; rather, they pattern with other have come to understand the disadvantage of basing methodology on slogans. No one can deny that every word, like every social convention or every

each local dialect, they would scarcely notice differences in speech in the Paris in his story of the travelers who proceed slowly from Paris to Italy. into Germanic territory. an abrupt speech cleavage such as they would encounter if they crossed greater boundary from France to Italy. For even here they would not find French area; they might not even notice when they crossed the supposedly Traveling a few miles at a stretch, and adapting their speech constantly to The usefulness of positing dialects was graphically questioned by Gaston

classifying dialects, they have progressed from a reliance on isoglosses for of isoglosses to correlation methods. Contemporary investigators seek to geographers have not abandoned subclassification of languages. When efficients with lines known as isopleths or isogradients. These may represent correlate their results and connect points having similar correlation colearn whether a list of features is present at given points. They then important linguistic features, such as the machen isogloss, through bundles In spite of the absence of sharp dialect, or language, boundaries, dialect

investigation that is known as sociolinguistics. other social phenomena, and has been extended to the branch of language the study of dialects has come to be closely associated with the study of areas of culture that may have exerted an effect on language. In this way some extent by geographical features. Isopleths, accordingly, indicate earlier political boundaries, which in turn were probably determined to tions and agricultural practices. Such compound isoglosses may reflect not only various isoglosses but also folk customs, such as tales, supersti-

6.6 CHARACTERISTICS OF DIALECT AREAS

area, tonic has not succeeded in replacing older forms. extent of influence exerted by the speakers in the Boston area. Outside the soft drink) in New England. Its general use around Boston indicates the focal area extends. As an example we may cite the distribution of tonic (a from them are accepted by surrounding areas as far as the prestige of the as areas of prestige, are known as focal areas. Innovations transmitted touched by relatively few isoglosses. Such centers, which speakers regard uniform. Languages as well as dialects generally have a center that is Although given a common label, speech within a language or dialect is not

terms for the drink referred to around Boston as a tonic. western New Hampshire, central Massachusetts and Rhode Island in their These may show characteristics of two neighboring focal areas, as do At the limits of well-defined speech areas, we find transition areas.

discontinuous, as are the relic areas on Map 6.3, in which final r is preserved. are difficult of access for cultural, political or geographic reasons. They may be extent of expanding isoglosses. Relic areas are generally found in locations that Further characteristic types of area, known as relic areas, lie beyond the

on Martha's Vineyard, Marblehead and Cape Ann, which are relic areas. speech of Boston. In addition, we find the r of this environment maintained transition area between the r-speech of the Hudson Valley and the r-less evidence for this r; isoglosses would be remote from the city. We conclude ided, with some speakers pronouncing, others dropping, r. This is a Massachusetts and elsewhere along the Connecticut River, usage is divas from the word tonic that Boston is a focal area. In western may illustrate the various types of area. Around Boston there is little The status of preconsonantal and final r in New England, as in hard, far,

Moreover, on the borders between Low German and Dutch speech, the were focal areas, leaving relic areas on the periphery of the country words spread from the cities of Antwerp and, later, Amsterdam, which "mouse." The investigation disclosed that successive innovations for both above Kloeke's investigation of the Dutch words for "house" and been made of speech communities and their subdivisions. We have noted lished much of the methodology of dialect geography, many studies have Since the time of the German and French dialect projects, which estab-

> spread of the innovations was checked in a transition area. The proposal of these three types of areas has accordingly been supported by further dialect

6.7 FINDINGS THAT CLARIFY DISTRIBUTION OF LINGUISTIC **FEATURES**

communities, attempts have been made to explain the linguistic situation understanding of speech communities and of the distribution of linguistic of past periods, as in the Proto-Indo-European community. features. From the findings of dialect geography in contemporary speech The studies of dialect distribution within languages have led to better

area; the two other subgroups were probably located elsewhere on its r to mark the middle voice are limited to Celtic, Italic, Hittite and endings for the active voice, were spread through this central area but did make up the central dialects. Innovations in the middle voice, patterned on Germanic, Greek, Baltic, Slavic, Albanian, Armenian and Indo-Iranian survived in the peripheral areas of the Indo-European community. periphery. We may therefore account for the r-middles as relic forms that Tocharian. Celtic and Italic were at the western periphery of the European not eliminate the r-endings on the periphery. Among the Indo-European languages, verb endings with a characteristic

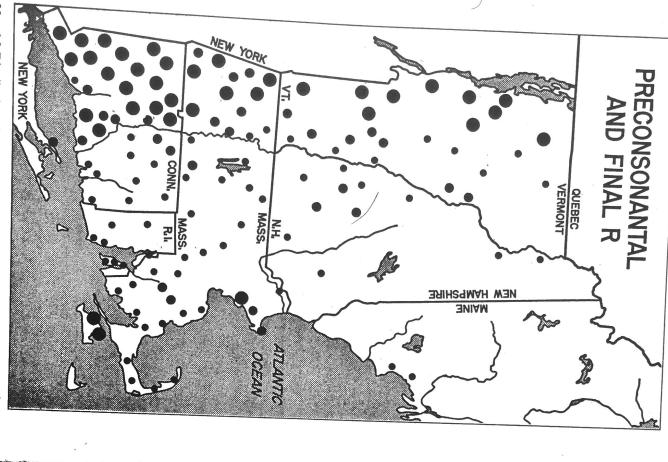
Another innovation that spread through a part of the central area is the change of some k's to sibilants, as in the word for "hundred." The more flexible, and realistic, view of their interrelationships. dialect geography in this way to ancient speech areas has given us a much imperfectly, Slavic and Baltic. Applying the findings of contemporary languages with the innovation are Indo-Iranian, Armenian, Albanian and

ence of French and of Spanish settlers. relationships. For example, if we had only linguistic information about from the distribution of words for "small bonus" the predominant influprior settlement patterns in Louisiana and Texas, we could still determine Linguistic study may also lead to an understanding of earlier cultural

reserve. since no data survive from these, the conclusions must be viewed with languages, with the aim of determining prior language communities. But, terpretations of this sort have been attempted for areas of the Romance and its interpretation may require intricate analysis. Nevertheless, in-After millennia have elapsed, such distribution may become clouded,

of homophones to each other, assuming that in the course of time one of them would be eliminated. This process is referred to as loss by collision. In the raphers, especially by Gilliéron. He was greatly interested in the relationships viande "food," from Lat. vivenda, the neuter plural of the quasigerundive French collections he found good material in support of his thesis. The word The history of individual words has also been clarified by dialect geog-

5



Map 6.3 Distribution of preconsonantal and final r.

of vivere "live," replaced char < carne "food, meat" in the focal area of Paris, where char came to be homophonous with the Old French form of chère "dear" < Lat. cara. In this way he provided one explanation for some losses in language, although his successors suggest that he exaggerated the extent of loss by collision. Yet the examples they provide are from different subsystems of the language, such as the noun bear and the verb bear, or two, too and to. When sound changes lead to homonymity for items used in similar environments such as gat, for "cat" and "rooster" in southwestern France, the likelihood of substitutes for one of the homonyms is great. In one of his classical studies, Gilliéron demonstrated how the words for "pheasant" and "vicar" were substituted for the old word for "rooster" in precisely the area where it coincided with the word for "cat."

Another phenomenon accounted for by dialect geography studies is the occurrence of **blends**. These are likely in compounds. In western Germany two words for "potato," *Erdapfel* and *Grundbirne*, gave rise to *Erdbirne*. In the western Taunus area two words for "brake," the native *Hemme* and *Meckenick*, from Fr. *mécanique*, have given rise to *Hemmenick* (see Bach 1950: 158ff. for these and others). Such blends are found especially in transition areas. By noting such effects of dialects in their interrelationships we can account for developments in language, as illustrated here, to extend our understanding of individual words as well as grammatical features in the history of languages.

6.8 MIXED LANGUAGES, PIDGINS, CREOLES

Historical linguists have long held that languages as well as dialects may influence one another, leading to linguistic changes. The kinds of influence and of changes reflect the social situation in which the interaction takes place.

If linguistic communities that speak different languages interact on an everyday basis, as in multilingual communities like those of India, many elements from one language may be incorporated in the other, and a mixed

Opposite: The map shows the distribution of preconsonantal and final r, illustrating the influence of the focal area Boston, transitions to other dialect areas, and relic areas.

An r preceding a vowel, as in road, borrow, far out, is pronounced in all parts of New England. But before consonants and finally, as in hard, how far?, usage is regional: in western New England and in New Brunswick the r is dropped, while the Connecticut Valley is mixed and unstable in practice.

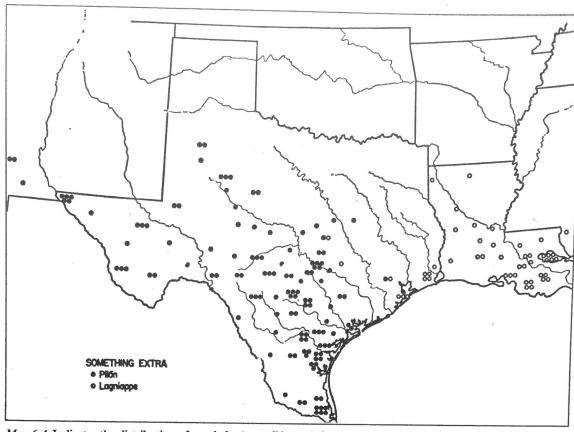
Martha's Vineyard, Marblehead, and Cape Ann, all secluded communities, appear as "rislands" in eastern New England, where this r is still losing ground. On the other hand, the r is gaining ground in the Connecticut Valley.

The largest circles indicate regular use of the cathe and the content of the content of the cathe cathe and the content of the cathe cat

The largest circles indicate regular use of this r; the smallest ones, sporadic use; and the remainder, rather evenly divided usage.

Taken from Kurath et al., 1939. Copyright, 1939, by The American Council of

Learned Societies. Included with the permission of Hans Kurath.



Map 6.4 Indicates the distribution of words for 'a small bonus', lagniappe and pilón, in the Texas area. The extent of French influence is clearly demarcated from that of Spanish. Taken by permission from Atwood (1962).

language may result. The designation is a relative term and has been long disputed. Some linguists of the 19th century were severely critical of the concept; others define it by their own criteria. The designation, then, may be used in a weak and in a strong sense.

such marriages take place, the pidgin may in time become the basic language of communities with only a pidgin in common may intermarry. If enough second language that is used in limited interactions. Jespersen and Hall on pidgins and creoles are given in section 13.7. Here we are concerned with an official language, and is referred to as New Guinea Pidgin. Fuller details Papua, on the other hand, the former trade language has been recognized as is known among linguists as a creole. An example is Haitian Creole. In of a given community. When it is the native language of such communities, it characterize pidgins as minimal languages. In the course of time, members New Guinea. The term is generally used by linguists when referring to a develop where a number of different indigenous languages are spoken, as in peoples, a composite language known as a pidgin may result. A pidgin may certain purposes, as for business carried out between sailors and indigenous languages of the past. creoles develop, and with attempts to account in this way for phenomena of the types of communities in which mixed languages as well as pidgins and If groups of speakers with different native languages interact only for

When we examine English, we find that the vocabulary consists of two segments: native words and borrowed words. The native words generally belong to the everyday language; the borrowed words belong to the language used for learned purposes, for church, government, military, science. Further examination indicates the source of the borrowings, and also the time of their adoption. The English-speaking community was Christianized by Latin-speaking missionaries from the late seventh century. Rome remained the dominant influence in ecclesiastical matters until the time of Henry VIII. During this period the ecclesiastical vocabulary of English was established on the basis of Latin. In referring to matters concerning the church and theology a language that consisted of everyday words making up the grammatical structure was mixed with Latin and Greek ecclesiastical terms. In this register of English, a mixed language developed.

In much the same way, after the French-speaking Normans conquered the Saxons in 1066, the political and military terms were based on French that when science become prominent in the 17th and later contrints.

the Saxons in 1066, the political and military terms were based on French. And when science became prominent in the 17th and later centuries, technical terms were based on Latin and Greek components. In this way the vocabulary of English is that of a mixed language.

But in these interchanges the systems of sounds and forms were largely unaffected. The phoneme /ž/ was introduced in part through French word like beige and rouge, but also through combinations of [zy] in such words.

unaffected. The phoneme /ž/ was introduced in part through French words like beige and rouge, but also through combinations of [zy] in such words vision. Moreover, we have noted above how its development brough parallelism in the system of fricatives. The phoneme /ž/ is therefore in parallelism in the system of fricatives.

linguists object to such a classification. lexicon, English may be regarded as a mixed language, though some English has been modified in phonology and morphology as well as in its Germanic language, and a comparable verb form exists in Celtic. Because are attributed to influence from Celtic; they are found in no other Moreover, the progressive forms of the verb, is walking beside walks etc., forms like [em], which, however, is still used in unaccented positions. Scandinavian settlers in English in they, their, them; these replaced native pronoun was taken over through a different set of contacts from the also a result of systematic forces. In the system of forms, the third plural

may be determined from descriptions of individual languages. much as Latin and French did in English. The extent of any such influences cations in the indigenous languages, and also in many languages of Asia, elsewhere, as in Africa. Arabic has been a language of prestige in much of nity, the same syntax is used for both. Comparable situations existed the continent for more than a millennium. It has brought about modifian Indo-Aryan and a Dravidian language are spoken in the same commumorphology and syntax were incorporated, as well as lexical items. Where nants, retroflex t th d dh n s, was introduced. Moreover, many elements of indigenous languages of India, chiefly Dravidian. An entire set of conso-The Indo-Aryan languages are far more modified by influences from the

have aroused considerable controversy. claims. As we will see later, such proposed explanations for the changes peoples. Unfortunately, we have no way of testing the validity of such been attributed by some linguists to the influence of earlier indigenous Similarly, the High German consonant shift, illustrated in section 6.4, has words as lune < Lat. lūna "moon" and sœur < Lat. soror "sister." items attributed to the influence of Celtic is the fronting of u and o in such two languages existed side by side for at least five centuries. Among other guages to the influence of Celtic speakers on the Latin spoken in Gaul. The thing of their difference from Spanish, Italian and other Romance landetail below, it has been assumed that languages like French owe someearlier languages through mixture in this way. As we will see in greater Linguists have attempted to account for linguistic characteristics of

they made use of a pidgin that has been well documented. evolved in the separate valleys. When groups from different tribes met, among the Indian tribes in Oregon. A large number of languages had to intercommunicate. Such attempts are attested in recent periods, as general hunts, speakers of different languages must have had some means pidgins. When tribal groups came into contact with one another, as in Attempts have also been made to account for some early languages as

suggested that instead of ascribing these to one language in the course included characteristics that were found in neighboring languages, he language is that of Trubetzkoy (1939). Observing that Proto-Indo-European The most widely discussed suggestion of a pidgin-like origin for a proto-

> of Celtic influence on French and English. cited, even though there is even less evidence for it than for the suggestions European. In view of Trubetzkoy's prestige, the suggestion continues to be of its development, they indicated a pidgin origin for Proto-Indo-

modifications in Egyptian of the fourth millennium have also been ascribed influenced by Sumerian, but scarcely to the extent of pidginization. Strong determined by careful examination of native structures and external modito mixture with earlier languages. The extent of influence may in time be fications, as has been done for English. Among the Afro-Asiatic languages Akkadian has clearly been strongly

6.9 AREAL LINGUISTICS

been studied in areal linguistics. The pace-setting work is that of Sandfeld A specific kind of social contact among speakers of different languages has of the infinitive with an element comparable to a verbal noun. Sandfeld found to some extent in each of them. The principal shared features are a ences between these languages, Sandfeld assembled a set of characteristics non-Indo-European language, Turkish. In spite of the considerable differsubgroups, for example Slavic, Italic, Greek, Albanian, but also of the Balkans. These consist not only of Indo-European languages of various (1930). He examined shared characteristics among the languages of the noted above, multilingual speakers tend to use the same syntax in each of ascribed the common features to widespread bilingualism. As we have postposed article, a comparable periphrastic future tense and replacement of selected features in an area with multiple interlingual contacts. their languages. A long period of bilingualism would then lead to adoption

of features so characteristic that he proposed the term SAE (Standard linguals had Latin as one of their languages. Whorf found the common set periphrastic verb forms, to bilingual speakers; in this instance the bi-Lee Whorf (1956) ascribed a set of common features such as articles and vastly different languages such as the Amerindian, with which he was Average European) for what he considered one language in contrast with chiefly concerned. Another such area that has been identified is western Europe. Benjamin

Indo-Aryan and Dravidian languages, as well as Munda and languages of classifiers to areal influence. other families. We have already noted the introduction of retroflex consonants into the Indo-Aryan languages. Murray Emeneau (1956) ascribed the use of different stems in singular and plural of nouns, and numera A third area so identified is the Asian subcontinent, with its many

guages of Central America, of Australia, and sections of Africa. Wherever sidered an areal characteristic. Common features are also found in lannumeral classifiers, and also tones, in many east Asian languages is con-Many further examples of linguistic areas could be cited. The use of

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opposed to those with morphological markers on words. Yet there are so concerning features that will be adopted. many variables to take into consideration that it is difficult to generalize their clarity of representation, such as periphrastic constructions as communication, such as numeral classifiers. Others seem preferred for them seem to be features that are useful to indicate precision in simple bilingualism is frequent, characteristics may be adopted among languages. It is difficult to suggest just what features will be taken over. Some of

background and its typological characteristics. obvious that any linguist dealing with a dialect, language or language family must be informed of the community maintaining it, as well as of its vations and propose some generalizations, like those given above. It is also the basis of studies that have been carried out we can cite some obsercommunity affect the course of development and change of a language. On the kind of language community and of the cultural conditions in that situations with reference to speakers is infinite" (ibid.: 133). It is clear that indicated at some length (1925 (1967): 77-89, 133-8), "the variety of structure of a language, the kind of contact is also significant. As Meillet French may have contributed to achievement of parallelism. Besides the languages have patterns that are incomplete; we have noted the lack of a function that is also indicated by numeral classifiers. On the other hand, parallelism in the voicing of fricatives in Old English. Borrowings from languages with numeral classifiers; articles are used to express definiteness, express them. For example, we would not expect the spread of articles to Features would scarcely be adopted if a language already had means to

SELECTED FURTHER READINGS

in New England. For England one may consult Harold Orton and Eugen Dieth (1962-8); for Germany, consult Bach (1950); for French, Dauzat general principles as well as providing information on the work carried out books for the various areas are available. Kurath et al. (1939) discuss (1950), and after 1950 the bibliographies in linguistics. In addition, handwell as considerable publication. For access to them one may consult Pop A large number of studies have been carried out in dialect geography, as

with one another see Labov (1966). A theoretical statement relating the findings of dialect geography with change is Weinreich, Labov and Herzog McDavid (1961). For a study of social dialects in their interrelationships dialect geography to restricted fields are Atwood (1953) and Kurath and Individual studies that illustrate the application of the principles of

European languages, see Pedersen (1931): 311-18. For application of the family-tree and wave models to the Indo-

Thomason and Kaufmann (1988) give a recent survey on the forces

PROBLEMS

large bibliography.

involved in language contact, and the effects, with copious examples and

1 (a) In volume I of Orton and Dieth (1962-8), covering the northern of items for the two concepts. gery." Yet in answer to the question; "What do you call the man who creevy, mucklagh, pig-cote/crow/hole/house/hull, (pig) cree/sty, pigquestion "What do you call the place where you keep pigs? creeve, counties of England, numerous words are given in answer to the elicited: (shep-)herd, shep. Account for the difference in the number looks after those animals that give us wool?" only three words were

(b) The initial question to elicit terms for "pigsty" was replaced by the following: "What do you call the place where you keep the animals

that go (i. grunting)?" Why was the change made?

(c) Similarly, the initial question: "What do you call the place where you country? English for words that have been listed (A-C), terms like creeve and chicken/hen coop, hen-cot(e)/cree/crow/hole/house/hull/hut/loft/pen/ know? When one consults the Dictionary of American Regional placelroost, poultry house, shade. How many of these terms do you keep the birds that lay eggs for you?" Answers to this question were: (hen)cree are not included. Why might they not be in use in this keep hens?" was replaced by "What do you call the place where you

2 Besides the shift of p t k in Old High German, b and g shifted to p and k, dor," cf. English bright. shift have been maintained in Modern German; one is Pracht "splenas in OHG kepan, NHG geben "give." Few words that underwent the

(a) Suggest why the shift of p t k was maintained, but not that of b g. (In shifted to Middle-German speaking areas in the Middle Ages.) framing your answer you may recall that the center of political power

(b) Compare the results of the two shifts: $p \ t \ k$ to pflf, $ts/s, \chi$, $b \ g$ to $p \ k$ with the results of the Proto-Germanic consonant shift.

support for the assumption of glottalics in Pre-Germanic? stops to voiceless stops. Does the Old High German shift provide By the glottalic theory the Proto-Germanic shift was from glottalic

(c) PGmc b shifted to d throughout Low and High German, cf. Germ. Dank, Eng. thank; Germ. Erde, Eng. earth. How does this shift Proto-Germanic? relate to that of the other Old High German obstruents? To that in

such as δ vs. p in English, discuss the motivation for the shift to d. Noting that German did not have a parallel voiced dental fricative,

3 (a) It is often stated that speakers in neighboring areas seek to use similar forms and pronunciation for ready understanding. But Alf

Sommerfelt cites a Norwegian dialect in which the speakers introduced a change of *ei* to *ai* to provide a greater contrast with a neighboring dialect (1962: 222). What might be the motivation for such a development?

(b) Biologists have been studying animal communication. In observing two dialects of sparrows in Argentina that are associated with the territory in which the birds nest, Nottebohm concluded that the dialects play a part in the mating systems of the two groups of sparrows (1970: 950-6). He makes the further inference that the dialects in this way "encourage the emergence of locally adaptive traits." Discuss such possible forces in the development of different human languages, as of the many that developed in the Americas.

4 In chapter 3 of his monograph of 1808 Friedrich Schlegel considered the relationships between Sanskrit and other Indo-European dialects, asking first whether Sanskrit was the oldest of the related languages and possibly their source. Then he adds: "Can't it just as well have arisen through mixture of the others, or by these means have preserved the similarity?"

We have noted that Trubetzkoy proposed a similar origin for Proto-Indo-European by merger of neighboring languages.

In an article, "Random cases with directed effects, the Indo-European language spread and the stochastic loss of lineages" (1991: 287-91), Robb proposes "as a theoretical hypothesis [that] the pattern of Indo-European can simply arise from a kind of social Brownian motion, in which a large pattern invents itself out of countless little perturbations between adjacent language communities."

Discuss the persistent attempts to account for Proto-Indo-European in this way. Could a similar explanation be provided for other proto-languages?

By contrast, American Indian specialists, including Greenberg, go to great pains to propose one or more ancestral languages. Why the different approach?

Recalling Latin and its numerous daughter languages, discuss the attractiveness of the suggestions by Schlegel, Trubetzkoy and Robb as opposed to the view of an ancestral language comparable to a spoken language today that subdivided into a number of daughter languages.

7 The comparative method

7.1 THE COMPARATIVE METHOD: A TRIANGULATION PROCEDURE FOR RECONSTRUCTING EARLIER FORMS

The three preceding chapters have presented spheres in which linguists deal with language. In genealogical classification the dimension delimiting the sphere is time; languages are examined for relationships with their earlier stages, and these in turn for their sub-branches. In this way, English is examined for its similarities and differences with regard to Middle English, Old English and Proto-Germanic, from which other sub-branches, such as the Scandinavian languages developed. Proto-Germanic in turn is examined for similarities and differences with regard to Proto-Italic, Proto-Indo-Iranian, etc. and also with Proto-Indo-European. The procedure is comparison for the purpose of determining earlier stages of a language and other languages to which it is related.

anguages to determine "universal laws," in Meillet's expression, typologi-Types and degrees of civilization" (1925 (1967): 13). While comparing Turkish today may be compared with Sumerian of 3000 BC, Berber today with Old Irish. All available languages are compared for characteristics absolutely. . . . The agreements which are established result from the pointed out, these "two types of comparison, equally legitimate, differ that are widespread, in the search for those that are universal. As Meillet general unity of the human mind, and the differences from the variety of manity" (ibid.). That aim may be the principal goal of typological study, In typological classification, the dimension of time is disregarded the comparative method. For example, on the basis of our knowledge study is also concerned to learn "about the general characteristics of eversals, also the interrelationships among them. The two types of in typological investigations, we would not reconstruct a language conttences. As we have illustrated above, we seek much more specific ing solely of vowels, nor one consisting of lists of nouns rather than t the results also serve as guidelines for reconstruction carried out by use ssification in this way supplement each other.

In the third type of comparison, the sphere may be limited in various

新聞をとっているが 「 ままらればのは かぶん