about similarities and differences across cultural communities in how people learn and develop. They discuss concepts to relate individual and cultural processes, expanding on the overarching orienting concept: that humans develop through their changing participation in the sociocultural activities of their communities, which also change.

2

Development as
Transformation of Participation
in Cultural Activities

Some decades ago, psychologists interested in how cultural processes contributed to human thinking were puzzled by what they observed. Their puzzlement came from trying to make sense of the everyday lives of the people they visited by using the prevailing concepts of human development and culture. Many of these researchers began to search for more useful ways to think about the relation of culture and individual functioning.

In this chapter, I discuss why then-current ideas of the relation between individual and cultural processes made these researchers' observations puzzling. A key issue was that "the individual" was assumed to be separate from the world, equipped with basic, general characteristics that might be secondarily "influenced" by culture. An accompanying problem was that "culture" was often thought of as a static collection of characteristics. After examining these assumptions, I discuss the cultural-historical theory that helped to resolve the researchers' puzzle, focusing on my own version of it. In my view, human development is a process in which people transform through their ongoing participation in cultural activities, which in turn contribute to changes in their cultural communities across generations.

Together, Chapters 2 and 3 argue for conceiving of people and cultural communities as mutually creating each other. Chapter 2 focuses on concepts for relating cultural processes to the development of individuals. Chapter 3 addresses the companion issue of how we can think of cultural

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communities as changing with the contributions of successive generations

A Logical Puzzle for Researchers

and 1970s brought tests of children's cognitive development from the from Jean Piaget's stage theory or were tests of classification, logic, and United States and Europe to foreign places. These tests were often derived North American and European cross-cultural psychologists of the 1960s

to remember lists of nonsense syllables or unrelated words. solved with the stated premises rather than using real-world knowledge, and unfamiliar figures into categories, to solve logic problems that could only be tities of water changed when poured into different-shaped beakers, to sort background experience. So researchers asked people to say whether quantion to people's everyday lives, to examine their ability independent of their The aim was to use measures of thinking that bore little obvious rela

classify, think logically, and remember. Some individuals (or groups) were tests sought to determine general stages of thinking or general ability to tence was regarded as a general personal characteristic underlying widely underlie their everyday performances, could be discerned using novel probmemory abilities --- in general --- than other people. Cross-cultural research expected to be at "higher" stages or to have better classification, logical, and different aspects of their behavior without variation across situations. The mental factors produced greater "competence." was used to examine, under widely varying circumstances, what environ lems that no one had been taught how to solve. People's level of compe-The idea was that people's "true" competence, which was assumed to

and distance" (1996, p. 74). lating miles, road quality, quality of the ear's tires, number of passengers often outbargained by the cabbies, who seemed ro have no difficulty calcuapparent in the marketplace and other local settings: "On taxi-buses I was which people had great difficulty with mathematical tests, great skill was test situation. For example, Michael Cole noted that in a community in other cognitive skills that the tests were supposed to measure) outside of the searchets' tests showed impressive skill in reasoning or remembering (or The puzzle was that the same people who performed poorly on the re-

terizing individuals across situations, such unevenness of performance was tions, researchers first tried making the content and format of the rests puzzling. To try to resolve the difference in apparent "ability" across situa-With the assumption that cognition is a general competence charac-

> the discrepancies across situations were not as great. (This remains an active knowledge and physical knowledge or verbal and nonverbal skills, so that also tried pareeling competence into smaller "domains," such as biological more familiar, to find "truer" measures of underlying competence. Researchers approach in the field of cognitive development.)

ner and Michael Cole and their colleagues began to study the specific supposed to relate to specific aspects of people's experience, there were literacy makes people smarter, but the researchers' everyday observations links between performance on the tests and the extent of experience with search and the findings.) Chapter 7, on culture and thinking, I focus in more detail on this reconnections between performance on tests and experience in school. (In challenged that interpretation. Instead, researchers such as Sylvia Scrib-Western schools and literacy. It was tempting to conclude that school or Researchers also began to notice that although the tests were not

An Example: "We always speak only of what we see"

tween schooling and test performance. A common test of logical thinking An example of a logical problem will serve to illustrate the connection be-Asian adults varying in literacy and schooling: In Luria's study, an interviewer presented the following syllogism to Central is the syllogism, like those employed during the 1930s by Alexander Luria

color are the bears there? In the Fat North, where there is snow, all bears are white. Novaya Zemlya is in the Far North and there is always snow there. What

logism as though the premises constituted a logical relation allowing an response of a nonliterate Central Asian peasant who did not treat the sylsired manner. However, many nonliterate interviewees did not. Here is the premises of syllogisms, literate interviewees solved the problems in the de-Luria reported that when asked to make inferences on the basis of the

we haven't seen 'We always speak only of what we see; we don't talk about what

gism is repeated.] [The interviewer probes:] But what do my words imply? [The syllo-

there, and if a person wasn't there he can't say anything on the ours. Your words can be answered only by someone who was basis of your words." "Well, it's like this: our tsar isn't like yours, and yours isn't like

[The interviewer continues:] But on the basis of my words—in the North, where there is always snow, the bears are white, can you gather what kind of bears there are in Novaya Zemlya?

"If a man was sixty or eighty and had seen a white bear and had told about it, he could be believed, but I've never seen one and hence I can't say. That's my last word. Those who saw can tell, and those who didn't see can't say anything!" (At this point a younger man volunteered, "From your words it means that bears there are white.")

[Interviewer:] Well, which of you is right?

"What the cock knows how to do, he does. What I know, I say, and nothing beyond that!" (1976, pp. 108--109)

This peasant and the interviewer diagreed about what kind of evidence is acceptable as truth. The peasant insisted on firsthand knowledge, perhaps trusting the word of a reliable, experienced person. But the interviewer tried to induce the peasant to play a game involving examination of the truth value of the words alone. The nonliterate peasant argued that because he had not personally seen the event, he did not have adequate evidence, and implied that he did not think that the interviewer had adequate evidence either. When the schooled young man made a conclusion on the basis of the unverified premises stated in the problem, the nonliterate man implied that the younger man had no business jumping to conclusions.

Like this peasant, many other nonliterate interviewees refused to accept that the major premise is a "given" and protested that they "could only judge what they had seen" or "didn't want to lie." (This pattern has been replicated in other places by Cole, Cay, Glick, & Sharp, 1971; Fobih, 1979; Scribnet, 1975, 1977; Sharp, Cole, & Lave, 1979; and Tulviste, 1991.) If non-literate interviewees were not required to state the conclusion, but were asked instead to evaluate whether the hypothetical premises and a conclusion stated by the researcher fit logically, then they were willing to consider such problems as self-contained logical units (Cole et al., 1971).

The argument of the nonliterate peasant studied by Luria shows quite abstract reasoning regarding what one can use as evidence, Indeed, Luria noted that nonliterate people's reasoning and deduction followed the rules when dealing with immediate practical experience; they made excellent judgments and drew the implied conclusions. Their unwillingness to treat syllogisms as logical problems is not a failure to think hypothetically. An interviewee explained his reasoning for not answering a hypothetical question: "If you know a person, if a question comes up about him, you are able to answer" (Scribner, 1975). He reasoned hypothetically in denying the possibility of reasoning hypothetically about information of which he had no experience.

Syllogisms represent a specialized language genre that becomes easier to handle with practice with this specialized form of problem (Scribner, 1977). In school, people may become familiar with this genre through experience with story problems in which the answer must be derived from the statements in the problem. Students are supposed not to question the truth of the premises but to answer on the basis of the stated "facts."

Being willing to accept a premise that one cannot verify, and reasoning from there, is characteristic of schooling and literacy. This commonly used test of logical "ability" thus reflects rather specific training in a language format that researchers are likely to take for granted, as highly schooled individuals themselves. The puzzles questioned assumptions of generality.

Researchers Questioning Assumptions

Cultural researchers sought alternative ways to think about the relationship of individual development and cultural processes. The assumption that the characteristics of both children and cultures were general seemed to be part of the problem.

The researchers became suspicious of the idea that children progress through monolithic, general stages of development. They noted that people's ways of thinking and of relating to other people are in fact not broadly applied in varying circumstances.

Researchers also noticed similar shortcomings in treating culture as a monolithic entity. The effect of being a "member of a culture" had been assumed to be uniform across both the members and the situations in which they functioned. For example, whole cultural groups were sometimes characterized as oral, complex, or interdependent (in different research traditions). When researchers saw that members of a community often differed from each other on such dimensions and that the dimensions seemed to apply more in some circumstances than others, this called into question the whole business of trying to discern the "essence" of a culture.

Currently, scholars think about the relation of individual development and cultural processes in a variety of ways that uy to look more specifically at individual and cultural attributes. Our understanding has benefited from attempts to make more fine-grained analyses of individual characteristics, domains of thinking, and cultural attributes.

However, I believe that some of the problems that remain require rethinking our basic ideas about the relation between individuals and cultural communities. I argue against the still common approach of treating individuals as entities separate from cultural processes, existing independently of their cultural communities. Such approaches look for how "culture" exerts "influence" on the otherwise generic "child."

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are separate entities, with the characteristics of culture "influencing" the by discarding the often unspoken assumption that individual and culture ings, and Bronfenbrenner. Then Largue that we can solve some problems that have been quite influential and helpful: the work of Mead, the Whitparticipants in their cultural communities. First I present several approaches human development as a cultural process in which all children develop as characteristics of individuals. The remainder of this chapter focuses on how we can conceptualize

tural traditions such as schooling and literacy. activities. Vygotsky's theory helped connect individuals' thinking with cul many scholars have built on his theory. Vygotsky's influential book Mind in theory proposed by Lev Vygotsky to be quite helpful, and in recent decades same researchers (including Cole and Scribner) who struggled with the puzzle of people's varied performance on cognitive tests and everyday cognitive Society (1978) was introduced to the English-speaking world by some of the Many researchers, including myself, have found the cultural-historical

on the prior work. I conceive of development as transformation of people's participation in ongoing sociocultural activities, which themselves change with the involvement of individuals in successive generations In the last part of this chapter, I describe my approach, which builds

and Individual Development Concepts Relating Cultural

events, long before the introduction of portable videotape technology, about the relation of individual development and cultural processes. related lines of investigation have provided models to help researchers think helped to reveal cultural aspects of individual acts and interactions. Several the material of development. Her careful observations of filmed everyday shared activity, which may or may not have explicit lessons for children, are Margaret Mead's pioneering work demonstrated how passing moments of

unintentionally, to a limiting view of individual and cultural processes—as agrammed the relation between the individual and the world lead us, perhaps search. However, I want to raise a concern that the ways the models have dimodels. They have provided key concepts and sparked pathbreaking rethese pioneers. In this section, I describe some of the ideas offered by these proaches, including cultural-historical perspectives, build on the work of ing how the relationship has been conceptualized. Several other current apand Bronfenbrenner's ecological system, will serve the purpose of describ-Two key approaches, Whiting and Whiting's psycho-cultural model

> ual and cultural processes throughout the social sciences separate entities. My concern is relevant to most diagrams relating individ

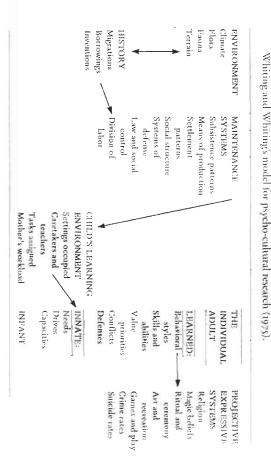
Whiting and Whiting's Psycho-Cultural Model

and cultural systems and values. This perspective stresses that understanding cestors) participate. diate cultural processes in which children and their partners (and their auwhich people develop--- the immediate situations as well as the less immehuman development requires detailed understanding of the situations in tures of their immediate environments, social partners, and institutional model" of the relations between the development of individuals and fea Beatrice Whiting and John Whiting (1975) provided a "psycho-cultural

is often the case in studies that simply relate children's development to broad influential in determining their course of development. that the cast of characters and settings in which children act are extremely broad packages of unanalyzed "independent variables." She emphasized categories such as culture, social class, and gender. Beatrice Whiting (1976) pressed scholars to "unpackage" these variables rather than treating them as The Whitings urged a deeper understanding of cultural processes than

Whiting and Whiting's model (see figure 2.1) presented human devel-

PIGURE 2.1



ioral styles, skills, value priorities, conflicts, and defenses. innate needs, drives, and capacities of the infant as well as learned behavmother's workload. Then the chain arrived at the individual, including the sisted of their routine settings, caretakers and teachers, tasks assigned, and vision of labor). This led to the child's learning environment, which conmigrations, borrowings, and inventions). This in turn led to the group's the climate, flora and fauna, and terrain) and led to the history (including rounding the child. The chain began with the environment (including opment as the product of a chain of social and cultural circumstances surpatterns, social structure, systems of defense, law and social control, and dimaintenance systems (subsistence patterns, means of production, settlement

a large extent the learning environment in which a child grows up, and the learning environment influences the child's behavior and development. Whiting and Whiting (1975) assumed that maintenance systems determine to history to the child's learning environment to the individual's development. derlying direction of causality, with arrows leading from the environment and The Whitings' model contained a set of assumptions regarding the un-

own work has been heavily influenced by the Whitings' ideas, and their re search can be seen throughout this book. findings in the study of the cultural aspects of human development. My culture and child development in their landmark Six Cultures Study (1975). Their focus on the child's learning environment produced key research team with a framework that allowed important advances in understanding These assumptions provided Whiting and Whiting and their research

ated by cultural characteristics. tural practices, in unintended ways. The categories composing the chain are they exist independently of each other, with individual characteristics cre causes the next. Thus individual and cultural processes are treated "as if treated as independent entities, and the arrows indicate that one entity tend to constrain how we think about the relation of individuals and cul-However, the form of their diagram carries implicit assumptions that

Bronfenbrenner's Ecological System

fenbrenner's model takes a different form from that of Whiting and Whitprocesses as separate entities. ing, but it raises similar questions about treating individual and cultural tant ideas and research on cultural aspects of human development. Bron-Uric Bronfenbrenner's ecological perspective has also contributed impor-

changing environment. In his view, the environment is composed of one's Bronfenbrenner stressed the interactions of a changing organism in a

> cial and physical environments that foster or undermine development within people's "ecological niches." He defined the ecology of human development brenner was interested in specifying the properties and conditions of the soamong different settings, such as home, school, and workplace. Bronfen inumediate settings as well as the social and cultural contexts of relations as involving

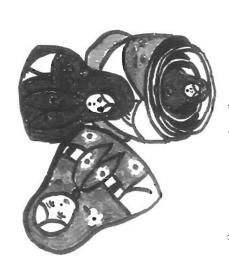
settings are embedded. (1979, p. 21) lations between these settings, and by the larger contexts in which the in which the developing person lives, as this process is affected by rehuman being and the changing properties of the immediate settings the progressive, mutual accommodation between an active, growing

mediate settings and "larger" contexts. Bronfenbrenner described his ecotually involved, elsewhere individuals are treated as products of their im and so on (see figure 2.2a). dolls in which a small figure nests inside a larger one inside a still larger one logical system as being composed of concentric circles, like Russian nesting Although this definition states that the person and the settings are mu

fenbrenner's proposal of concentric circles carries the same implicit assump-"larger" contexts are conceived as existing separately, definable independ tions about the relation of individual and cultural processes: Individual and Like the diagram in Figure 2.1 of categories connected by arrows, Bron-

FIGURE 2.2A

Bronfenbrenner likened his ecological system to Russian nesting dolls



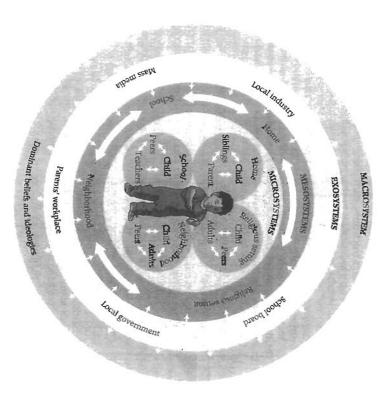


FIGURE 2.2B

Bronfenbrenner's nested ecological system as interpreted in Michael and Sheila Cole's 1996 textbook.

ently of each other, related in a hierarchical fashion as the "larger" contexts affect the "smaller" ones, which in turn affect the developing person.

In Bronfenbrenner's system, the smallest, central circle is closest to the individual's immediate experiences (see figure 2.2b). Outer circles refer to settings that exert an influence less directly (through their impact on others), without the individual's direct participation in them. The system is divided into four aspects of the ecology in which individuals function: microsystems, mesosystems, exosystems, and macrosystems. Although I am concerned with how the four systems relate, Bronfenbrenner's articulation of each of these systems is a valuable contribution:

Microsystems, according to Bronfenbrenner, are the individual's imme

diare experiences—the settings containing the child and others, such as home and school. One of the basic units at the level of microsystems is the dyad (that is, the pair); dyads in turn relate to larger interpersonal structures such as triads (three-person systems, such as mother-father-baby). Even in the most immediate settings, individuals and dyads are crucially dependent on third parties and larger groups.

Mesosystems, in Bronfenbrenner's approach, are the relations among the microsystems in which an individual is involved, for example, the complementary or conflicting practices of home and school. Mesosystems involve relations between and among systems—two or three or more in relation. Bronfenbrenner made the very important point that any one setting (such as the home) involves relations with others (such as school or a religious institution). He emphasized the overlaps and communication between settings and information in each setting about the other. The analysis of mesosystems gives importance to questions such as whether a young person enters a new situation (such as school or camp) alone or in the company of familiar companions, and whether the young person and companions have advance information about the new setting before they enter. Bronfenbrenner stressed the importance of ecological transitions as people shift roles or settings (for example, with the arrival of a new sibling, entry into school, graduating, finding a job, and marrying).

Exagistems relate the microsystems in which children are involved to settings in which children do not directly participate, such as parents' workplaces if children do not go there. Although children's immediate environments, in which they participate directly, are especially potent in influencing their development. Bronfenbrenner argued that settings that children do not experience directly are also very influential. He referred especially to the role of parents' work and the community's organization: Whether parents can perform effectively within the family depends on the demands, stresses, and supports of the workplace and extended family. The direct impact on children of parents' child-rearing roles is influenced by such indirect factors as flexibility of parents' work schedules, adequacy of child care arrangements, the help of friends and family, the quality of health and social services, and neighborhood safety. Aspects as removed as public policies affect all these factors and are part of the exosystem of human development.

Macronrelative in the ideology and organization of pervasive social in-

Macrosystems are the ideology and organization of pervasive social institutions of the culture or subculture. Referring to macrosystems, Bronfenbrenner stated:

Within any culture or subculture, settings of a given kind---such as homes, streets, or offices---tend to be very much alike, whereas be-

tween cultures they are distinctly different. It is as if within each society or subculture there existed a blueprint for the organization of every type of setting. Furthermore, the blueprint can be changed, with the result that the structure of the settings in a society can become markedly altered and produce corresponding changes in behavior and development. (1979, p. 4)

Bronfenbrenner's approach makes several key contributions; in particular, it emphasizes studying the relations among the multiple settings in which children and their families are directly and indirectly involved. The idea of examining how children and families make transitions among their different ecological settings is also extremely important. Nonetheless, the separation into nested systems constrains ideas of the relations between individual and cultural processes.

Descendents

The ideas and research of the Whitings and Bronfenbrenner have provided very important guidance for the whole field of work on culture and human development. My own research and ideas are direct descendents from this family of work, intermarried with cultural-historical ideas.

Several other approaches, influenced by the ideas of the Whitings, Bronfenbrenner, and others, focus on <u>coological niches</u> as a way of thinking about the relation of individuals and communities. Tom Weisner, Ron Gallimore, and Cathie Jordan (1988) emphasized important features of children's daily routines for understanding cultural influences:

The personnel who are available and interacting with children The motivations of the people involved Cultural "scripts" used by people to guide the way they do things The type and frequency of tasks and activities in daily routines

Charles Super and Sara Harkness (1997) focused on the relations among children's dispositions and three subsystems of the developmental niche:

The cultural goals and beliefs of the people involved

The physical and social settings in which the child lives
The culturally regulated customs of child care and child rearing
The psychology of the caregivers (including parental beliefs regarding
the nature and needs of children, goals for rearing, and shared
understandings about effective rearing techniques)

Issues in Diagramming the Relation of Individual and Cultural Processes

In textbooks and scholarly treatises in a number of social science fields, the relation between individual and cultural processes is still commonly diagrammed using entities connected by arrows or contained in concentric circles (like figures 2.1 and 2.2).

These ways of sketching ideas are so familiar that social scientists may not question the assumptions they embody. Visual tools for communicating theoretical ideas constrain our ideas, often without our noticing the constraints. I think it is important to revise the diagrams to be able to represent the idea that cultural and personal processes create each other.

Boxes-and-arrows or nested-circles diagrams constrain our concepts by separating person and culture into stand-alone entities, with culture influencing the person (or, in some models, with the two entities interacting). Figures 2.1 and 2.2 portray the individual as separate from the environment (and therefore "subject" to its influences). The separation appears in the unidirectional causal chains between prior and later variables in the Whitings' model and in the hierarchical nesting of the inner system, dependent on those outside it, in Bronfenbrenner's ecological theory.

Behavior (or thought) is often treated as the "outcome" of independent cultural variables. The "influence" of culture on individuals has frequently been studied by "measuring" some characteristics of culture (such as the complexity of social organization in the society) and some characteristics of individuals (such as personality characteristics or measures of intelligence), and then correlating them. This contrasts with approaches that examine the contributions of individuals and cultural practices as they function together in mutually defining processes.

Diagrams separating the individual and the world are so pervasive in the social sciences that we have difficulty finding other ways to represent our ideas. The Whitings and Bronfenbrenner may not themselves have been rightly wedded to the ideas that I suggest are implied by the forms of the diagrams. In a later work, Whiting and Edwards (1988) referred less to causal chains than in the 1975 work in examining associations between gender differences and the company children keep, though still with an aim of determining how settings influence individual development. Similarly, Bronfenbrenner's nesting-doll image was accompanied by the statement that individuals and their settings are related through progressive, mutual accom-

Because I am interested in visual representations as tools for thought. I am seeking other ways to portray the mutual relationship of culture

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and human development, avoiding the idea that either occurs alone (without the contributions of the other) or that one produces the other. After describing the ways that sociocultural-historical theory treats the relation of individual and cultural processes, I provide some diagrams to portray development as a process of changing participation in sociocultural activities.

Sociocultural-Historical Theory

Many researchers interested in culture and development found in the writings of Lev Vygotsky and his colleagues a theory that laid the groundwork to help integrate individual development in social, cultural, and historical context. In contrast to theories of development that focus on the individual and the social or cultural context as separate entities (adding or multiplying one and the orher), the cultural-historical approach assumes that individual development must be understood in, and cannot be separated from, its social and cultural-historical context. According to Vygotsky's theory, the efforts of individuals are not separate from the kinds of activities in which they engage and the kinds of institutions of which they are a part.

Vygotsky focused on cognitive skills and rheir reliance on cultural inventions such as literacy, mathematics, mnemonic skills, and approaches to problem solving and reasoning (Laboratory of Comparative Human Cognition, 1983; Vygotsky, 1978; Wertsch, 1979). In this view, thinking involves learning to use symbolic and material cultural tools in ways that are specific to their use. This was exemplified by work demonstrating that experience with literacy promoted particular skills in its use, rather than promoting general cognitive advances (Scribner & Cole, 1981).

Vygotsky argued that children learn to use the tools for thinking provided by culture through their interactions with more skilled partners in the zone of proximal development. Through engaging with others in complex thinking that makes use of cultural tools of thought, children become able to carry out such thinking independently, transforming the cultural tools of thought to their own purposes. Interactions in the zone of proximal development allow children to participate in activities that would be impossible

for them alone, using cultural tools that themselves must be adapted to the specific activity at hand.

Cultural tools thus are both inherited and transformed by successive generations. Culture is not static; it is formed from the efforts of people working together, using and adapting material and symbolic tools provided by predecessors and in the process creating new ones.

Development over the life span is inherently involved with historical developments of both the species and cultural communities, developments that occur in everyday moment-by-moment learning opportunities. Development occurs in different time frames——at the pace of species change, community historical change, individual lifetimes, and individual learning moments (Scribner, 1985; Wertsch, 1985). These four developmental levels, at different grains of analysis, provide a helpful way of thinking about the mutually constituting nature of cultural and biological processes and the changing nature of culture, discussed in more depth in the next chapter.

Scholars are working on a coherent family of sociocultural-historical research programs and theories inspired by Vygotskian cultural-historical theory, along with related ideas emerging from several other theoretical traditions (see Goodnow, 1993; Rogoff & Chavajay, 1995). The theory of John Dewey (1916) also complements Vygotskian ideas and has helped a number of sociocultural scholars to further develop these ideas. In addition, work on communication in everyday lives in different communities has contributed important concepts for thinking about individual and cultural aspects of development (Erickson & Mohatt, 1982; Goodwin, 1990; Heath, 1983, 1989a, 1991; Mehan, 1979; Miller, 1982; Ochs, 1988, 1996; Rogoff et al., 1993; Schieffelin, 1991; Watson-Gegeo & Gegeo, 1986b).

The related proposals for sociocultural theory represent a general agreement that individual development constitutes and is constituted by social and cultural-historical activities and practices. In the emerging sociocultural perspective, culture is not an entity that *influences* individuals. Instead, people contribute to the creation of cultural processes and cultural processes contribute to the creation of people. Thus, individual and cultural processes are *mutually constituting* rather than defined separately from each other.²

²Related though heterogeneous sociocultural proposals include the work of Bruner, 1990; Cole, 1996, 1996; Engeström, 1990; Goodnow, 1990; Heath, 1983; Hutchins, 1991; John-Steiner, 1985; Laboratory of Comparative Human Cognition, 1985; Lawe & Wenger, 1991; Miller & Goodnow, 1995; Ochs, 1988, 1996; Rogoff, 1990, 1998; Schieffelin, 1991; Scribner, 1985, 1997; Serpell, 1993; Shweder, 1991; Shweder, Goodnow, Hatano, LeVine, Markus, & Miller, 1998; Valsiner, 1987, 1994, 2000; Wenger, 1999; Wertsch, 1991. (See also the journals Mind. Culture, and Activity and Culture & Psychology.) Although my version of the sociocultural perspective has a great deal in common with other versions, there are also important differences that are beyond the scope of this overview.

¹⁷This approach is referred to interchangeably as the sociocultural, sociobistorical, or cultural bistorical approach. Active scholarly work continues to examine and extend the early twentieth-century insights of Vygotsky. Luria, Leont'ev, and other Soviet scholars such as Bakhtin and Byenkov. See especially Bakhurst, 1995; Cole, 1995, 1996; Kozulin, 1990; van der Veer & Valsiner, 1991; Wertsch, 1991, 1998.

developmental psychology: the solitary individual. Information about speculations are hesitant and vague: "Thinking?" "Being punished?" removed. When I ask people to guess what this child is doing, their relations with other people and the purpose and setting of the activity is This image portrays the object of study that has been traditional in

in Sociocultural Activity Development as Transformation of Participation

the same time that they inherir practices invented by others (Rogoff, 1990. People contribute to the processes involved in sociocultural activities at ple's changing participation in sociocultural activities of their communities. In my own work, I emphasize that human development is a process of peo-

As people develop through their shared use of cultural tools and practices, and extend cultural tools and practices inherited from previous generations. as they engage in sociocultural endeavors with other people, make use of volvement of people in successive generations. People of each generation, and contribute to cultural activities that themselves develop with the inencing) culture, from my perspective, people develop as they participate in they simultaneously contribute to the transformation of cultural tools, Rather than individual development being influenced by (and influ-

alytic views of ongoing, mutually constituted processes. practices, and institutions. sonal, and cultural aspects of human activity are conceived as different aning cultural influences. In Figure 2.3a-g, I offer images of a sociocultural aim to move beyond boxes-and-arrows and nested-circles ways of portray-"transformation of participation perspective" in which personal, interper-To clarify these ideas, I have been developing a series of images that

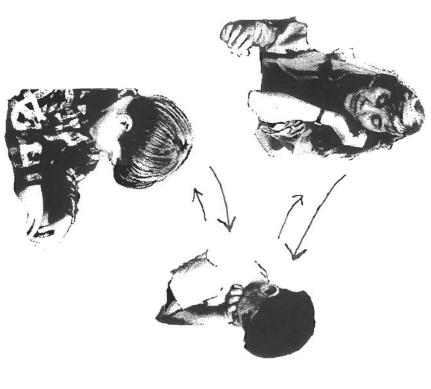
pants in more than one community's cultural practices, traditions, and ship in national or ethnic groups, and that individuals are often particito note that in my view, cultural processes are not the same as membercommunities. For examining the images in Figure 2.3, it may be sufficient In the next chapter I discuss in more depth what I mean by cultural



FIGURE 2.3A

PIGURE 2.3B

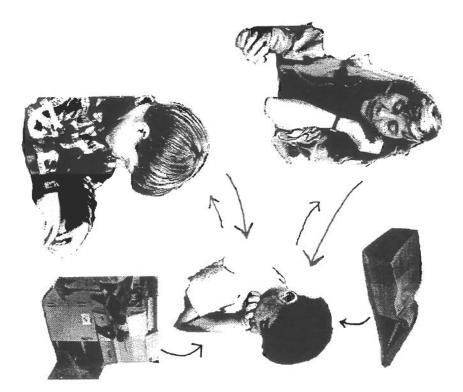
studied separately even when they are engaging in the same event. Then the more specific than for the solitary individual in Figure 2.3a. given information about "social influences," their hypotheses are not much arrows to try to include an effect of the active child on the other people.) actions of the separate entities.3 (Sometimes, analyses include bidirectional are recognized as relevant. This image portrays how social relations have often When I ask people to make further guesses about what the child is doing. "social influences" are examined through correlating the characteristics or been investigated. -- by studying "the child" apart from other people, who are Of course, the roles of other people -- parents, peers, teachers, and so on ---



tural processes. velopment is reduced to this sort of analysis of social influences, overlooking his emphasis on cul-Wygotskian scholars complain that frequently Wygotsky's idea of the zone of proximal de-

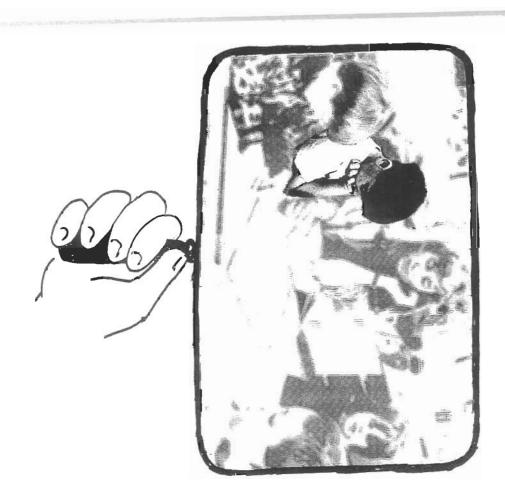
PIGURE 2.3C

of the relation of culture and human development. When "cultural certain that the child is reading. regard for what they are doing together in sociocultural activities. With this remains separate from them, "subject" to the effects of cultural characteristics. influences" are added (represented by the book and the cupboard), the child this child is doing are still not very specific, though some become more This figure, like the two previous, is based on the boxes-with-arrows diagrams portrayal of "cultural influences" information, people's guesses about what The individual and the rest are taken apart from each other, analyzed without



PIGURE 2.3D

This image focuses on the same child from the transformation-of-participation perspective. The child is foregrounded, with information about him as an individual as the focus of analysis. At the same time, interpersonal and cultural-institutional information is available in the background. A general sense of interpersonal and cultural-institutional information is necessary to understand what this child is doing, although it does not need to be attended to in the same detail as the child's efforts. When I show people this image, their guesses about what the child is doing become much more specific: "Playing a game . . . Oh, it's Scrabble . . . He's thinking about his next turn . . . It's in a classroom . . ."

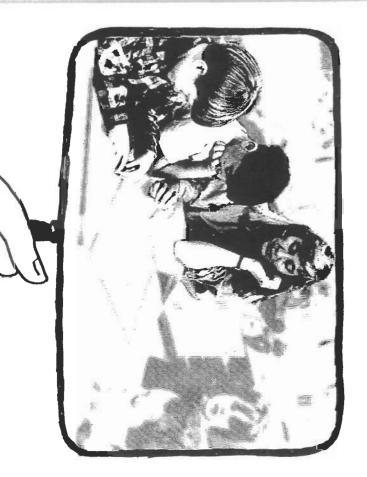


each other as they play. next turn; and they are engaging in a friendly form of competition, helping interpersonal facus of analysis. We would be interested in knowing that the dictionary under her elbow while his classmate works on a word for his own bin, we could focus on what they are doing together. This would involve an the adult is a parent volunteer helping this child check a word in the three people are playing Scrabble as a spelling activity organized by the adult; ween interested in the relationships among that child and the people beside Is insuead of wanting to study the development of that particular child, we

cultural information is important as background, to understand what the this community (for that, see figure 2.3f). A general sense of individual and analyzing in detail how such an activity fits with the culture of this school or people are doing The fact that this is in a classroom setting matters, but we would not be

analysis requires some attention to personal processes (such as efforts to learn roles and changing practices of schools and families). At the same time, understanding of community processes (such as the historical and cultural of interpersonal arrangements could not occur withour background aspect can be changed, but they do not exist apart from each other. Analysis through observation and participation in ongoing activities). of the event constitute the activity. No aspect exists or can be studied in isolation from the others. An observer's relative focus on one or the other Together, the interpersonal, personal, and cultural-institutional aspects

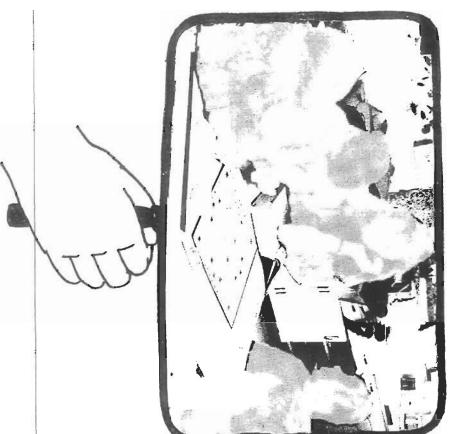
analysis and are not assumed to be separate entities in reality. (In contrast, the as observers or researchers, construct the focus of analysis. The focus of entities as existing separately in reality.) between what is in the foreground and what is in the background lie in our to foreground some aspects of phenomena and background others simply keeping other information less distinct, as background. It is usually necessary because no one can study everything at once. However, the distinctions of the event and focuses on some information as more important to us, Figure 2.3e, the relationships among these three people. It is a particular view analysis stems from what we as observers choose to examine— in the case of boxes-and-arrows and nested-circles approaches often treat the diagrammed The hand holding the analytic lens is also important, indicating that we,



FEGURE 2.3E

Some studies (or some lines of investigation, or some disciplines) need a cultural-institutional facus of analysis, backgrounding the details regarding the particular people and their relations with each other. In this scene, we might be interested in studying such cultural-institutional processes as how this particular school has developed practices in which parent volunteers are routinely in the classroom, helping children learn by devising "fun educational" activities; how the community of this school revises its practices as new generations of families join in; and how the practices in this school connect with the culture and history of schooling in other innovative schools as well as in traditional schools and with national and educational policies (such an analysis is available in Rogoff, Goodman Turkanis, & Bartlett, 2001; Rogoff, 1994).

With the focus of Figure 2.3f, we see a glimpse of a moving picture involving the history of the activities and the transformations toward the future in which people and their communities engage.



PIGURE 2.36

This figure portrays a problem that sometimes occurs if tescarchers recognize the importance of culture but leave out the equally important role of the people who constitute cultival activities. This figure is as difficult to understand as Figure 2.3a. It does not make sense to try to study cultural processes without considering the contributions of the people involved, keeping them in the background of a focus on cultural, institutional community processes.



gained across studies or disciplines that employ different focuses. Instead of standing of the phenomena that interest us. Keeping our focus of analysis inbeing competing ways to examine phenomena, each focus informs the othets. formed by background information makes it easier to align the understanding mation across studies and across disciplines to develop more complete under-I believe that this approach will facilitate progress in coordinating infor-

cuss the relation of biological and cultural processes.) tioning can all be seen as contributing to the overall process, rather than as rivals, trying to cut each other out of the picture. (In the next chapter, I diswith personal, interpersonal, and cultural information in the background. example, studies could focus on neuronal, hormonal, or genetic processes. In this way, biological, sociocultural, and individual aspects of human func-Figure 2.3d–f could be the focus of analysis in othet related research. For personal, and cultural processes, biological aspects of the activity shown in Although I concentrate in this book on questions of personal, inter-

a moving picture, it would do more justice to the idea of the dynamic and namic processes. If you can imagine the image as a glance at a moment in mutually constituting nature of individual, interpersonal, and cultural-inever; the medium of the printed page constrains the representation of dyactivity. The static nature of Figure 2.3d-f does not capture this well, how-Key to my approach is an emphasis on the processes involved in human

on individual characteristics, often thought of as providing a flavor to othnesting-circles diagrams. Culture has been treated as an outside "influence" tied to the separation of individual and culture in the box-and-arrow or changing cultural communities. Individuals and generations shape pracformation-of-participation view, all people participate in continually erwise vanilla individuals. As I explain in the next chapter, from my transthey inherit in their moment in history. tices, traditions, and institutions at the same time that they build on what The ways that scholars and policymakers have often thought of culture are The next chapter examines concepts for thinking about cultural processes.

and Dynamic Cultural Communities Individuals, Generations,

our cultural and historical peculiarity is an essential part of that nature Each of us lives out our species nature only in a specific local manifestation . . .

—Shore, 1988, p. 19

velopment to be a process of changing participation in dynamic cultural we can conceive of cultural processes and communities if we consider derion of individuals and cultural communities. This chapter focuses on how Scholars and census takers alike struggle with how to think about the rela-

rather than treating culture as a staric social address carried by individuals. tural processes as dynamic properties of overlapping human communities similarities versus differences. The second challenge is how to think of cullong-standing related dichotomies: cultural versus biological heritage and are the focus of this chapter. The first challenge is moving beyond a pair of Two major challenges in trying to characterize people's cultural heritage

Humans Are Biologically Cultural

sition. Proponents argue that if something is cultural, it is not biological. characteristics is biological and what percentage is cultural or environmenand if something is biological, it is not cultural. In particular, psychologists have spent a long time trying to figure out what percentage of a person's tities rather than viewing humans as biologically cultural. tal. This artificial separation treats biology and culture as independent en-The well-known nature/nurture debate places culture and biology in oppo-