

PRINCIPLES *of* LANGUAGE LEARNING AND TEACHING

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PREFACE

When the first edition of *Principles of Language Learning and Teaching* appeared in 1980, the field of second language acquisition (SLA) was relatively manageable. We had a handful of professional journals devoted to SLA, a good collection of anthologies and conference proceedings, a small but respectable number of books on SLA and teaching, and a budding community of researchers devoted to the field.

Today the field of SLA has a mind-boggling **number** of branches and sub-fields and specializations – so many that it is virtually impossible for one person to "manage" them all. In the most recent issue of *Language Teaching*, an abstracting journal covering SLA and its pedagogical implications and applications, 162 periodicals were listed as potential sources of research on SLA. In two recent Handbooks surveying research on second language acquisition (Doughty & Long, 2003; Hinkel, 2005), readers are treated to over 2000 pages and over 70 chapters of surveys of current research! All these publications, coupled with literally thousands of conference presentations annually on SLA worldwide and an impressive number of books, now cover dozens of major subject matter areas. From "A to Z" – Accent to the Zone of proximal development – SLA is a rich and diverse **field** of inquiry.

Today we can see that the manageable stockpile of research of just a few decades ago has been replaced by a coordinated, systematic storehouse of information. Subfields have been defined and explored. Researchers around the world are meeting, talking, exchanging findings, comparing data, and arriving at some mutually acceptable explanations. A remarkable number of respectable, refereed journals are printing the best and most interesting of this research. Our research miscarriages are fewer as we have collectively learned how to conceive the right questions.

On the other hand, the mysteries and wonder of human language acquisition still perplex of the best of our sleuthing minds. It is a rare research report that does *not* end with some sort of caveat like, "more research is needed." In the 888-page compendium edited by Doughty and Long (2003), *The Handbook of Second Language Acquisition*, the penultimate author's closing sentence reads: "It is hardly surprising, though, that theoretical and methodological problems still abound;

LANGUAGE, LEARNING, AND TEACHING _____

LEARNING A second language is a long and complex undertaking. Your whole person is affected as you struggle to reach beyond the confines of your first language and into a new language, a new culture, a new way of thinking, feeling, and acting. Total commitment, total involvement, a total physical, intellectual, and emotional response are necessary to successfully send and receive messages in a second language. Many variables are involved in the acquisition process. Language learning is not a set of easy steps that can be programmed in a quick do-it-yourself kit. So much is at stake that courses in foreign languages are often inadequate training grounds, in and of themselves, for the successful learning of a second language. Few if any people achieve fluency in a foreign language solely within the confines of the classroom.

It may appear contradictory, then, that this book is about both learning and teaching. But some of the contradiction is removed if you look at the teaching process as the facilitation of learning, in which you can teach a foreign language successfully if, among other things, you know something about that intricate web of variables that are spun together to affect how and why one learns or fails to learn a second language. Where does a teacher begin the quest for an understanding of the principles of language learning and teaching? By first considering some of the questions that you could ask.

QUESTIONS ABOUT SECOND LANGUAGE ACQUISITION

Virtually any complex set of skills brings with it a host of questions. While these questions can quickly turn into "issues," because there is no simple answer to the questions, nevertheless we usually begin the process with a set of focused questions to guide our study. Current issues in second language acquisition (SLA) may be initially approached as a multitude of questions that are being asked about this complex process. Let's look at some of those questions, sorted here into some commonly used topical categories.

Are the learners attempting to acquire the second language within the cultural and linguistic milieu of the second language, that is, in a "second" language situation in the technical sense of the term? Or are they focusing on a "foreign" language context in which the second language is heard and spoken only in an artificial environment, such as the modern language classroom in an American university or high school? How might the sociopolitical conditions of a particular country or its language policy affect the outcome of a learner's mastery of the language? How' do intercultural contrasts and similarities affect the learning process?

Purpose

Finally, the most encompassing of all questions: Why are learners attempting to acquire the second language? What are their purposes? Are they motivated by the achievement of a successful career, or by passing a foreign language requirement, or by wishing to identify closely with the culture and people of the target language? Beyond these categories, what other, emotional, personal, or intellectual reasons do learners have for pursuing this gigantic task of learning another language?

REJOICING IN OUR DEFEATS

The above questions have been posed, in very global terms, to give you an inkling of the diversity of issues involved in the quest for understanding the principles of language learning and teaching. By addressing such questions carefully and critically, you can begin to achieve a surprising number of answers as you move

through the chapters of this book. And you can hone the global questions into finer, subtler questions, which in itself is an important task, for often being able to ask the right questions is more valuable than possessing storehouses of knowledge.

At the same time, you should not labor under the impression that you can satisfactorily find final answers to all the questions. By some evaluations, the field of SLA is still in its infancy, with all the methodological and theoretical problems that come with a developing discipline (see Gregg, **2003**, for example). Therefore, many of these questions will receive somewhat tentative answers, or at best, answers that must begin with the phrase, "it depends." Answers must almost always be framed in a context that can vary from one learner to another, from one moment to another. The wonderful intricacy of complex facets of human behavior will be very much with us for some time. Roger Brown's (1966, p. **526**) wry remark of over four decades ago still applies:

Psychologists find it exciting when a complex mental phenomenon – something Intelligent and slippery – seems about to be captured by a mechanical model. We yearn to see the model succeed, But when, at the last minute, the phenomenon proves too much for the model and darts off on some uncapturable tangent, there is something in us that rejoices at the defeat.

We can rejoice in our defeats because we know that it is the very elusiveness of the phenomenon of SLA that makes the quest for answers so exciting. Our field of Inquiry is no simple, unidimensional reality. It is "slippery" in every way,

The chapters of this book are designed to give you a picture of both the slip-periness of SLA and the systematic storehouse of reliable knowledge that is now available to us. As you consider the issues, chapter by chapter, you are led on a quest for your own personal, integrated understanding of how people learn – and sometimes fail to learn – a second language. That quest is *eclectic* no single theory or hypothesis will provide a magic formula for all learners in all contexts. And the quest is *cautious*: you will be urged to be as critical as you can in considering the merit of various models and theories and research findings. By the end of the final chapter, however, you will no doubt surprise yourself on how many pieces of this giant puzzle you can actually put together!

Thomas Kuhn (1970) referred to "normal science" as a process of puzzle solving in which part of the task of the scientist, in this case the teacher, is to discover the pieces and then to fit the pieces together. Some of the pieces of the language learning puzzle have been located and set in place. Others are not yet discovered, and the careful defining of questions will lead to finding those pieces. We can then undertake the task of fitting the pieces together into a paradigm – an interlocking design, a theory of second language acquisition.

LEARNING AND TEACHING

We can also ask questions about constructs like learning and teaching. Consider again some traditional definitions. A search in contemporary dictionaries reveals that learning is "acquiring or getting of knowledge of a subject or a skill by study, experience, or instruction." Oddly, an educational psychologist would define learning even more succinctly as "a change in an individual caused by experience" (Slavin, 2003, p. 138). Similarly, teaching, which is implied in the first definition

Whatever our attitude toward mind, spirit, soul, etc., as realities, we must agree that the scientist proceeds as though there were no such things, as though all his information were acquired through processes of his physiological nervous system. Insofar as he occupies himself with psychical, nonmaterial forces, the scientist is not a scientist. The scientific method is quite simply the convention that mind does not exist. . .

Twaddell was underscoring the mandate for the structural linguist to examine only overtly observable data, and to ignore the "mind" insofar as the latter represented a **mentalistic** approach that gave credence to unobservable guesses, hunches, and intuition. Such attitudes prevailed in B. F. Skinner's thought, particularly

the concept of **competence**, or our underlying and unobservable language ability). A few decades later, however, descriptive linguists chose largely to ignore *langue* and to study *parole*, as was noted above. The revolution brought about by generative linguistics broke with the descriptivists' preoccupation with performance—the outward manifestation of language—and capitalized on the important distinction between the overtly observable aspects of language and the hidden levels of meaning and thought that give birth to and generate observable linguistic performance.

Similarly, cognitive psychologists asserted that meaning, understanding, and knowing were significant data for psychological study. Instead of focusing rather mechanistically on stimulus-response connections, cognitivists tried to discover psychological principles of organization and functioning, David Ausubel (1965, p. 4) noted:

from the standpoint of cognitive theorists, the attempt to ignore conscious states or to reduce cognition to mediational processes reflective of implicit behavior not only removes from the field of psychology what is most worth studying but also dangerously oversimplifies highly complex psychological phenomena.

Cognitive psychologists, like generative linguists, sought to discover underlying motivations and deeper structures of human behavior by using a **rational** approach. That is, they freed themselves from the strictly empirical study typical of behaviorists and employed the tools of logic, reason, extrapolation, and inference in order to derive explanations for human behavior. Going beyond merely descriptive adequacy to explanatory power took on utmost importance.

might now appear to have two peaks (the second formerly hidden from view) and different configurations of its slopes. From still another direction, yet further characteristics emerge, heretofore unobserved. The study of SLA is very much like the viewing of our mountain: we need multiple tools and vantage points in order to ascertain the whole picture-Table 1.1 summarizes concepts and approaches described in the three perspectives above. The table may help to pinpoint certain broad ideas that are associated with the respective positions. The patterns that are illustrated are typical of what Kuhn (1970) described as the structure of scientific revolutions. A successful paradigm is followed by a period of anomaly (doubt, uncertainty, questioning of prevailing theory), then crisis (the fall of the existing paradigm) with all the professional insecurity that comes therewith; and then finally a new paradigm, a novel theory, is put together. This cycle is evident in both psychology and linguistics, although the limits and bounds are not always easily perceived – perhaps less easily perceived in psychology, in which all three paradigms currently operate somewhat simultaneously. The cyclical nature of theories underscores the fact that no single theory or paradigm is right or wrong. It is impossible to refute with finality one perspective with another. Some truth can be found in virtually every critical approach to the study of reality.

Then, using a cautious, enlightened, eclectic approach, you can build a set of foundation stones—a theory, if you will—based on principles of second language learning and teaching.

The chapters that follow are designed to help you understand relevant concepts and issues in SLA and in so doing to formulate that approach.

TOPICS AND QUESTIONS FOR STUDY AND DISCUSSION

Note: Items listed below are coded for individual (I) work, group/pair (G) work, or (whole) class (C) discussion, as suggestions to the instructor on how to incorporate the topics and questions into a class session.

1. (G) At the beginning of this chapter, a number of categories of questions about second language acquisition are described, with numerous specific questions in each category. In a small group, in which each group is assigned one category only, try to generate some possible answers to selected questions, especially those questions that involve some complexity. To personalize your responses, include examples from the learning experiences of members of your group.
2. (C) Look at the two definitions of language, one from a dictionary and the other from Pinker's book (page 6). Why are there differences between these two definitions? What assumptions or biases do they reflect on the part of the lexicographer? How do those definitions represent "condensed theories"?
- 3- G/G) Write your own "25-words-or-less" definitions of language, learning, and teaching. What would you add to or delete from the definitions given in this chapter? Share your definitions with another classmate or in a small group. Compare differences and similarities.
4. (G) Consider the eight subfields of linguistics listed on pages 6-7, and, assigning one subfield to a pair or small group, discuss briefly the type of approach to second language teaching that might emerge from emphasizing the exclusive importance of your particular subfield. Report your thoughts to the whole class.
5. (O) What did Twaddell (1935, p. 57) mean when he said, "The scientific method is quite simply the convention that mind does not exist"? What are the advantages and disadvantages of attending only to "publicly observable responses" in studying human behavior? Don't limit yourself only to language teaching in considering the ramifications of behavioral principles.
6. (I) In the discussion of constructivism as a school of thought, Vygotsky is cited as a major influence in our understanding of constructivism, especially social constructivism. Restate Vygotsky's philosophy in your own words and offer some classroom examples of Vygotsky's theories in action.
- 7- (G) Looking back at the three schools of thought described in this chapter, in a small group, suggest some examples of activities in the language classroom that would be derived from one of the three perspectives, as assigned to your

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- group From those examples, try to derive some simple descriptors of the three schools of thought
- 8- (O) Considering the productive relationship between theory and practice, think of some examples (from any field of study) that show that theory and practice are interactive. Next, think of some specific types of activities typical of a foreign language class you have been in (choral drills, translation, reading aloud, using a vocabulary word in a sentence, etc.), What kind of theoretical assumptions underlie these activities? How might the success or failure of the activity possibly alter the theory behind it?
9. (G) Richards and Rodgers (2001, p. 7) said the Grammar Translation Method "is a method for which there is no theory." Why did they make that statement? Do you agree with them? Share in a group any experiences you have had with Grammar Translation in your foreign language classes, and **evaluate** its effectiveness.
10. (T) At the end of the chapter, twentieth-century language teaching methodology is described as one that evolved into an *approach* rather than a specific accepted *method*, with the Direct Method and Audiolingual Method cited as examples of the latter. What is the difference between approach and method? Describe classroom examples of each.

SUGGESTED READINGS

Doughty, C. & Long, M. (2003). *The handbook of second language acquisition*

Malden, MA: Blackwell Publishing. Hinkel, E. (Ed.). (2005). *Handbook of research in second language teaching and learning*. Mahwah, NJ: Lawrence Erlbaum Associates.

Together these two handbooks provide an encyclopedic summary of current research in just about every imaginable subfield of second language acquisition. The chapters (24 in Doughty and Long; 57 in Hinkel) in both volumes are individually authored by researchers who have spent a lifetime examining the topic of their specific chapter. The intended audience includes a sophisticated audience of second language acquisition researchers and other "experts." and therefore much of the reading is difficult for a novice in the field; however, both volumes offer a wealth of information. not to mention extensive lists of bibliographic references within each topic.

Mitchell, R. & Myles, F. (2004), *Second language learning theories* (2nd ed.) London: Hodder Arnold.

In this second edition, the authors have updated their original (1998) publication, a useful synopsis of current theoretical perspectives on second language acquisition. Among the theories summarized are Universal

Grammar, cognitive approaches, functional/pragmatic approaches, soci-olinguistic and sociocultural perspectives, and research on input and interaction

Kaufman, D. (2004). Constructivist issues in language learning and teaching. *Annual Review of Applied linguistics*, 24, 303-319.

Of the three schools of thought presented in this chapter, perhaps constructivism is the most difficult to pin down, and to relate specifically to second language acquisition. Some of the current literature on constructivism is difficult to digest, but in this useful article, Dorit Kaufman defines and synopsizes constructivism in language that a novice in the field can understand.

Urown, H, D. (2001). *Teaching by principles. An interactive approach to language pedagogy* (2nd ed.). White Plains, NY: Pearson Education.

Richard-Amato, R (2003). *Making it happen: From interactive to participatory language teaching* (3rd ed.). White Plains, NY: Pearson Education.

Richards, J., & Rodgers, T. (2001). *Approaches and methods in language teaching* (2nd ed). Cambridge, UK: Cambridge University Press.

'these three books offer a historical overview and critical analysis of language teaching methods in a context of theoretical foundations that underlie pedagogical practices. Brown and Richard Amato are general in their scope, while Richards and Rodgers focus especially on the methods that have appeared in language teaching history.

Modern Language Journal, Fall 2000 (vol. 84, no. 4) and Spring 2001 (vol.85, no. 1).

For an informative picture of the last century of language teaching, you might want to consult these two issues of the Modern Language Journal. In each issue, a general introduction is followed by a number of articles that examine the history of language teaching in the twentieth century. Special attention is given to publications that appeared in the Modern Language Journal, and to the teaching of many different foreign languages.

LANGUAGE LEARNING EXPERIENCE: JOURNAL ENTRY 1

In each chapter in this book, a brief set of journal-writing guidelines will be offered. Here, you are strongly encouraged to commit yourself to a process of weekly journal entries that chronicle a previous or concurrent foreign language learning experience. In so doing, you will be better able to connect the issues that you read about in this book with a real-life, personal experience. Remember, a journal is meant to be "freely" written, without much concern for beautiful prose, rhetorical eloquence, or even grammaticality. It is your diary in which you can spontaneously record feelings, thoughts, reactions, and questions.

The prompts that are offered here are not meant to be exhaustive, so feel free to expand on them considerably. The one rule of thumb to follow in writing your journal is: connect your own experiences learning a foreign language with issues and models and studies that are presented in the chapter. Your experiences then become vivid examples of what might otherwise remain somewhat abstract theories.

If you decide to focus your writing on a previous experience learning a foreign language, you will need to "age regress" yourself to the time that you were learning the language. If at all possible, choose a language you learned (or tried to learn!) as an adult, that is, after the age of 12 or so. Then, describe what you were feeling and thinking and doing then.

If your journal centers on a concurrent experience, so much the better, because your memory of the ongoing events will be more vivid. The journal-writing process may even prompt you to adopt certain strategies for more successful learning-

Guidelines for Entry 1

- As you start(ed) your foreign language class, what is your overall emotional feeling? Are you overwhelmed? Scared? Challenged? Motivated? Is the course too easy? Too hard?
- How do you feel about your classmates? The class spirit or mood? Is the class "spirit" upbeat and motivating, or boring and tedious? What are the root causes of this general mood? Is it your own attitude, or the teacher's style, or the makeup of the class?
- Describe activities that you did in the early days of the class that illustrate (1) a behavioral perspective on second language acquisition, (2) a cognitive perspective, and (3) a constructivist perspective.
- Describe your teacher's teaching style. Is it effective? Why or why not? Does your teacher seem to have an approach to language teaching that is consistent with what you've read so far?

PART_I

AGEJ^ACTORS

CHAPTER 2

FIRST LANGUAGE _____

ACQUISITION

THE MAJWELOUS capacity for acquiring competence in one's native language within the first few years of life has been a subject of interest for many centuries. Some one and a half millennia ago, St. Augustine offered in his *Confessions* a self-analysis of the acquisition of his own first language. "... And thus by constantly hearing words, as they occurred in various sentences, I collected gradually for what they stood; and having broken in my mouth to these signs, I thereby gave utterance to my will."

"Modern" research on child language acquisition dates back to the latter part of the eighteenth century, when the German philosopher Dietrich Tiedemann recorded his observations of the psychological and linguistic development of his young son. At the end of the nineteenth century, Francois Gouin observed the language acquisition of his nephew and from those insights derived what came to be known as the Series Method of foreign language teaching. Not until the second half of the twentieth century did researchers begin to analyze child language systematically and to try to discover the nature of the psycholinguistic process that enables every human being to gain fluent control of an exceedingly complex system of communication. In a matter of a few decades, some giant strides were taken, especially in the generative and cognitive models of language, in describing the acquisition of particular languages, and in probing universal aspects of acquisition.

This wave of research in child language acquisition led language teachers and teacher trainers to study some of the general findings of such research with a view to drawing analogies between first and second language acquisition, and even to justifying certain teaching methods and techniques on the basis of first language learning principles. On the surface, it is entirely reasonable to make the analogy. After all, all children, given a normal developmental environment, acquire their native languages fluently and efficiently; moreover, they acquire them "naturally," without special instruction, although not without significant effort and attention to language. The direct comparisons must be treated with caution, however. There are dozens of salient differences between first and second language learning: the most obvious difference, in the case of adult second language learning, is the tremendous cognitive and affective contrast between adults and children. A detailed examination of these differences is made in Chapter %

McNeill and other researchers in the Chomskyan tradition composed eloquent arguments for the appropriateness of the LAD proposition, especially in contrast to behavioral, stimulus-response (S-R) theory, which was so limited in accounting for the creativity present in child language. The notion of linguistically oriented innate

as many as four, since speaking, listening, reading, and writing are all separate modes of performance.

Perhaps an even more compelling argument for the separation of competencies comes from research that appears to support the superiority of production over comprehension. Gathercole (1988) reported on a number of studies in which children were able to produce certain aspects of language they could not comprehend. For example, Rice (1980) found that children who did not previously know terms for color were able to respond verbally to such questions as "What color is

CLASSROOM CONNECTIONS

Research Findings: There is wide evidence of children's ability to comprehend quantitatively more language than they can produce. The same is true of adults, in both foreign and native languages. We can take in words, phrases, grammar, styles, and discourse that we never actually produce.

Teaching Implications: James Asher's (1977) "comprehension approach" to learning foreign languages was at the time billed as a revolution in language teaching. It was echoed in Stephen Krashen's model that stressed comprehensible input as crucial in learning a language successfully (see Chapter 10). How much time do you think should be devoted to comprehension (listening, reading) in a foreign language class? What difference might the students' level of proficiency make in determining how much time to spend on comprehension and production?

this?" But they were not able to respond correctly (by giving the correct colored object) to "Give me the [color] one." **While** lexical and grammatical **instances** of production before comprehension seem to be few in number, it still behooves us to be wary in concluding that *all* aspects of linguistic comprehension precede, or facilitate, linguistic production.

Nature or Nurture?

Nativists contend that a child is born with an innate knowledge of or predisposition toward language, and that this innate property (the LAD or UG) is universal in all human beings. The innateness hypothesis was a possible resolution of the contradiction between the behavioral notion that language is a set of habits that can be acquired by a process of conditioning and the fact that such conditioning is much too slow and inefficient a process to account for the acquisition of a phenomenon as complex as language,

But the innateness hypothesis presented a number of problems itself. One of the difficulties has already been discussed in this chapter: the LAD proposition simply postpones facing the central issue of the nature of the human being's capacity for language acquisition. Having thus "explained" language acquisition, one must now scientifically explain the genetic transmission of linguistic ability – which we cannot yet do with certainty. And, of course, scholars taking an emergentist perspective continue to challenge the notion that what is innate is grammatical or linguistic at all. On the other hand, while the LAD remains a tentative hypothesis,

A number of theories and issues in child language have been explored in this chapter with the purpose of both briefly characterizing the current state of child language research and of highlighting a few of the key concepts that emerge in the formation of an understanding of how babies learn to talk and eventually become sophisticated linguistic beings. There is much to be learned in such an understanding. Every human being who attempts to learn a second language has already learned a first language. It is said that the second time around on something is always easier. In the case of language, this is not necessarily true. But in order to understand why it is not, and to apply such insights to the second language class room, you need to understand the nature of that initial acquisition process, for it may be that some of the keys to the mystery are found therein. That search is continued in Chapter 3 as we examine how children acquire a second language and compare those processes to those of an adult,

TOPICS AND QUESTIONS FOR STUDY AND DISCUSSION

Note: (I) individual work; (G) group or pair work; (C) whole-class discussion.

1. (G) In a small group, discuss why it is that behavioral theories can account sufficiently well for the earliest utterances of the child, but not for utterances at the sentence and discourse level. Do nativist and functional approaches provide the necessary tools for accounting for those later, more complex utterances?
2. (G/C) If it's possible, with a partner, record on tape some samples of a young child's speech. A child of about 3 is an ideal subject to observe in the study of growing competence in a language. Transcribe a segment of your recording and see if, inductively, you can determine some of the rules the child is using. Present your findings to the rest of the class for discussion.
3. (T) Review the sections that dealt with Universal Grammar. Is it something different from the nativists' concept of LAD? In your own words, what are the positions of those who embrace connectionism and emergentism as alternatives to UG? Which position makes most sense to you? Why?
4. (G) In a group, look at the two samples of speech on pages 36 and 37 (one by a five-year-old, and the other by a professional golfer). Identify what you would consider to be "performance variables" in those transcripts. Then, try to reconstruct an "idealized" form of the two monologues, and share with other groups.
5. (C) Competence and performance are difficult to define. In what sense are they interdependent? How does competence increase? Can it decrease? Try to illustrate with nonlanguage examples of learning certain skills, such as musical or athletic skills.
6. (<J) In a group, recall experiences learning a foreign language at some point in your past. Share with others any examples of your comprehension exceeding your production abilities. How about the reverse? Share your findings with the rest of the class.
7. (D) Name some forms of language and some functions of language. In your own experience learning a previous foreign language, did you experience any difficulty with the latter?
8. (C) In what way do you think Gouin reflected some ideas about language and about language acquisition that are now current more than a hundred years later? Would the Series Method or the Direct Method work for you as a teacher? Discuss pros and cons.

SUGGESTED READINGS

Clark, E. (2003). *First language acquisition*. Cambridge, UK: Cambridge University Press.

O'Grady, W. (2005). *How children learn language*. New York: Cambridge University Press.

These widely used textbooks on first language acquisition summarize research on the topic with many examples of recorded and transcribed speech. Each book, deals with age-related acquisitional characteristics. Eve Clark's book is longer and provides more references to research, while William

O'Grady's offers a succinct, very readable synopsis of what we know about how children learn their first language.

Pinker, S. (1994). *The language instinct: How the mind creates language*. New York: William Morrow.

Steven Pinker's book hit the best seller list over a decade ago. It offers a wealth of information for the lay reader on such topics as child language acquisition, innateness, thought and language, and linguistics in general.

Ellis, N. (2003). Constructions, chunking, and connectionism: The emergence of second language structure. In C. Doughty & M. Long (Eds.), *The handbook of second language acquisition* (pp. 63-103). Maiden, MA: Blackwell Publishing.

O'Grady, W. (2003). The radical middle: Nativism without universal grammar. In C. Doughty & M. Long (Eds.), *The handbook of second language acquisition* (pp. 43-62), Maiden, MA: Blackwell Publishing.

MacWhinney, B. (Ed.), (1999), *The emergence of language*. Mahwah, NJ; Lawrence Erlbaum Associates.

The first two articles, by Nick Ellis and William O'Grady, both from the Doughty and Long Handbook, offer concise synopses of the controversial elements of Universal Grammar nativism, connectionism, and emergentism in research on first language acquisition, as well as implications for examining

second language acquisition. The anthology edited by Brian MacWhinney focuses specifically on emergentism as an alternative to nativism.

LANGUAGE LEARNING EXPERIENCE: JOURNAL ENTRY 2

Note: See pages 21 and 22 of Chapter 1 for general guidelines for writing a journal on a previous or concurrent language learning experience.

- As you learn(ed) a foreign language, did you feel any of the learning was due to a "knack" you had for it? Think of some examples to illustrate either the presence or the absence of some ability to pick up the language.
- Is your class focused more on the forms of language than the functions? Illustrate with examples.
- Offer some thoughts about what you see as a relationship between behavioral, nativist, and functional approaches to studying *first* language acquisition and your own experiences in learning or teaching a *second* language. These relationships will be dealt with more thoroughly in Chapter 3, and your present instincts would be worth comparing to your thoughts after you cover Chapter 3-
- Go through the issues discussed in this chapter and ask yourself if, in your foreign language class, you have had opportunities to understand and to speak, to imitate the teacher, to practice your language, especially discourse and conversation?
- Consider how children learn their first language and figure out inductively (before you go on to Chapter 3) what some of the child's "secrets" are that enable them to acquire a language seemingly efficiently.

CHAPTER 3

LANGUAGE ACQUISITION

THE INCREASED pace of research on first language acquisition in the last half of the Twentieth century attracted the attention not only of linguists in many subfields but also of educators in various language-related fields. Today the applications of research findings in first language acquisition are widespread. In language arts education, for example, teacher trainees are required to study first language acquisition, particularly acquisition after age 5, in order to improve their understanding of the task of teaching language skills to native speakers. In foreign language education, most standard texts and curricula now include some introductory material on first language acquisition. The reasons for this are clear. We have all observed children acquiring their first language easily and well, yet individuals learning a second language, particularly in an educational setting, can meet with great difficulty and sometimes failure. We should therefore be able to learn something from a systematic study of that first language learning experience.

What may not be quite as obvious, though, is how the second language teacher should interpret the many facets and sometimes conflicting findings of first language research. First language acquisition starts in very early childhood, but second language acquisition can happen in childhood, early or late, as well as in adulthood. Do childhood and adulthood, and differences between them, hold some keys to second language acquisition (SLA) models and theories? The purpose of this chapter is to address some of those questions and to set forth explicitly some of the parameters for looking at the effects of age and acquisition.

DISPELLING MYTHS

The first step in investigating age and acquisition might be to dispel some myths about the relationship between first and second language acquisition. H. H. Stern (1970, pp. 57-58) summarized some common arguments that had been raised from

Today researchers are continuing the quest for answers to child-adult differences by looking beyond simple phonological factors. Bongaerts et al.(1995) found results that suggested that certain learner characteristics and contexts may work together to override the disadvantages of a late start. Slavoff and Joluison (**1995**) found that younger children (ages 7 to **9**) did not have a particular advantage in rate of learning over older (10- to 12-year-old) children. Longitudinal studies such as Ioup et al.'s (**1994**) study of a highly nativelike adult learner of Egyptian Arabic are useful in their focus on the factors beyond phonology that might be relevant in helping us to be more successful in teaching second languages to adults. Studies on the effects of Universal Grammar (White, 2003), of instructional factors (Singleton & Ryan, 2004), and of contextual and sociopsychological factors (Moyer, 2004) are all highly promising domains of research on age and acquisition.

COGNITIVE CONSIDERATIONS

Human cognition develops rapidly throughout the first 16 years of life and less rapidly thereafter. Some cognitive changes are critical; others are more gradual and difficult to detect. Jean Piaget (1972; **1955**; Piaget & Inhelder, **1969**) outlined the course of intellectual development in a child through various stages:

- * Sensorimotor stage (birth to 2)
- * Preoperational stage (ages 2 to 7)
- * Operational stage (ages 7 to 16)
 - Concrete operational stage (ages 7 to 11)
- * Formal operational stage (ages 11 to 16)

A critical stage for a consideration of the effects of age on second language acquisition appears to occur, in Piaget's outline, at puberty (age 11 in his model).

CHAPTER 7 Age and Acquisition

It is here that a person becomes capable of abstraction, of formal thinking which transcends concrete experience and direct perception. Cognitively, then, an argument can be made for a critical period of language acquisition by connecting language acquisition and the concrete/formal stage transition. However, as reasonable as such a contention might sound, even here some caution is warranted. Singleton and Ryan (2004, pp. 156-159) offer a number of objections to connecting Piagetian stages of development with critical period arguments, not the least of which was the "vagueness" and lack of empirical data in Piaget's theory.

Ausubel (1964) hinted at the relevance of such a connection when he noted that adults learning a second language could profit from certain grammatical explanations and deductive thinking that obviously would be pointless for a child. Whether adults do in fact profit from such explanations depends, of course, on the suitability and efficiency of the explanation, the teacher, the context, and other pedagogical variables. We have observed, though, that children do learn second languages well without the benefit—or hindrance—of formal operational thought. Does this capacity of formal, abstract thought have a facilitating or inhibiting effect on language acquisition in adults? Ellen Rosansky (1975, p. 96) felt that initial language acquisition takes place when the child is highly "centered": "He is not only egocentric at this time, but when faced with a problem he can focus (and then only fleetingly) on one dimension at a time. This lack of flexibility and lack of decentration may well be a necessity for language acquisition."

Young children are generally not "aware" that they are acquiring a language, nor are they aware of societal values and attitudes placed on one language or another, [it is said that "a watched pot never boils": is it possible that a language learner who is too consciously aware of what he or she is doing will have difficulty in learning the second language?

You may be tempted to answer that question affirmatively, but there is both logical and anecdotal counterevidence. Logically, a superior intellect should facilitate what is in one sense a highly complex intellectual activity. Anecdotal evidence shows that some adults who have been successful language learners have been very much aware of the process they were going through, even to the point of utilizing self-made paradigms and other fabricated linguistic devices to facilitate the learning process. So, if mature cognition is a liability to successful second language acquisition, clearly some intervening variables allow some persons to be very successful second language learners after puberty. These variables may in most cases lie outside the cognitive domain entirely, perhaps more centrally in the affective—or emotional—domain.

A strong case for the superiority of children in implicit learning (acquisition of linguistic patterns without explicit attention or instruction) was advanced by Robert DeKeyser (2000). In a study of adult native speakers of Hungarian learning English, he found that certain adults, those with high general verbal ability, were able

he or she speaks. For any monolingual person, the language ego involves the interaction of the native language and ego development. Oneself-identity is inextricably bound up with one's language, for it is in the communicative process—the process of sending out messages and having them "bounced" back—that such identities are confirmed, shaped, and reshaped. Guiora suggested that the language ego may account for the difficulties that adults have in learning a second language.

The child's ego is dynamic and growing and flexible through the age of puberty. Thus a new language at this stage does not pose a substantial "threat" or inhibition to the ego, and adaptation is made relatively easily as long as there are no undue confounding sociocultural factors such as, for example, a damaging attitude toward a language or language group at a young age. Then the simultaneous physical, emotional, and cognitive changes of puberty give rise to a defensive mechanism in

CHAPTER 3 Age and AcqLihffion

which the language ego becomes protective and defensive. The language ego clings to the security of the native language to protect the fragile ego of the young adult. The language ego, which has now become part and parcel of self-identity, is threatened, and thus a context develops in which you must be willing to make a fool of yourself in the trial-and-error struggle of speaking and understanding a foreign language. Younger children are less frightened because they are less aware of language *forms*, and the possibility of making mistakes in those forms—mistakes that one really must make in an attempt to communicate spontaneously—does not concern them greatly.

It is no wonder, then, that the acquisition of a new language ego is an enormous undertaking not only for young adolescents but also for an adult who has grown comfortable and secure in his or her own identity and who possesses inhibitions that serve as a wall of defensive protection around the ego. Making the leap to a new or second identity is no simple matter; it can be successful only when one musters the necessary ego strength to overcome inhibitions. It is possible that the successful adult language learner is someone who can bridge this affective gap. Some of the seeds of success might have been sown early in life. In a bilingual setting, for example, if a child has already learned one second language in childhood, then affectively, learning a third language as an adult might represent much less of a threat. Or such seeds may be independent of a bilingual setting; they may simply have arisen out of whatever combination of nature and nurture makes for the development of a strong ego.

CLASSROOM CONNECTIONS



Research Findings: It is common to find research that compares children and adults acquiring second languages, with the assumption that the two categories are easily defined. But not enough research examines differences between younger (6-7-year-old) and older (10-11-year-old) children.

Teaching Implications: If you were teaching two groups of children—a 6-7-year-old group and a 10-11-year-old group—how would your approach and classroom activities differ?

In looking at SLA in children, it is important to distinguish younger and older children. Preadolescent children of 9 or 10, for example, are beginning to develop inhibitions, and it is conceivable that children of this age have a good deal of affective dissonance to overcome as they attempt to learn a second language. This could account for difficulties that older prepubescent children encounter in acquiring a

LANGUAGE LEARNING EXPERIENCE: JOURNAL ENTRY 3

Note: See pages 21 and 22 of Chapter 1 for general guidelines for writing a journal on a previous or concurrent language learning experience.

- * How good do you think your pronunciation of your foreign language is? How do you feel about your pronunciation – satisfied, dissatisfied, resigned, in need of improvement? Assuming you would not expect to be 'perfect,' what steps can you take (or could you have taken) to improve your pronunciation to a point of maximum clarity of articulation?
- Given your current age for your age when you were learning a foreign language), do you feel you're too old to make much progress? Are you linguistically "over the hill" with little hope of achieving your goals? Analyze the roots of your answers to these questions.
- Children might have some secrets of success: not monitoring themselves too much, not analyzing grammar, not being too worried about their egos, shedding inhibitions, not letting the native language interfere much. In what way did you, or could you, put those secrets to use in your own learning?
- * In learning a foreign language, were any aspects (such as listening discrimination exercises, pronunciation drills, learning grammar rules, small group conversations, reading, or writing) easier than others for you? Analyze what made certain procedures easier than others.
- Do you think you might have some advantages over children in learning a foreign language? Speculate on what those advantages might be. Then make a list of strategies you could use to capitalize on those advantages.

PART II

Research Findings: Thorndike's Law of Effect emphasised the importance of stimuli that occur **after** a desired behavior. Skinner's concept of an **emitted** response also focused on the power of reinforcement for long-term learning.

Teaching Implications: Teachers in language classrooms often offer stimuli or reinforcement after a student performs in the foreign language. What kind of stimuli have your teachers used to reward your efforts?

Operants are classes of responses. Crying, sitting down, walking, and batting a baseball are operants. They are sets of responses that are **emitted** and governed by the consequences they produce. In contrast, **respondents** are sets of responses that are **elicited** by identifiable stimuli. Certain physical reflex actions are respondents. Crying can be respondent or operant behavior. Sometimes crying is elicited *in* direct reaction to a hurt. Often, however, it is an emitted response that produces the consequences of getting fed, cuddled, played with, comforted, and so forth. Such operant crying can be controlled. If parents wait until a child's crying reaches a certain intensity before responding, loud crying is more likely to appear in the future. If parents ignore crying (when they are certain that it is operant crying), eventually the absence of reinforcers will extinguish the behavior. Operant crying

given item within the so-called "magic seven, plus or minus two" (Miller, 1956) units for perhaps a few seconds, but long-term memory is a different matter. We can remember an unfamiliar phone number, for example, long enough to dial the number, after which point it is usually extinguished by interfering factors. But a meaningfully learned, subsumed item has far greater potential for retention. Try, for example, to recall all your previous phone numbers (assuming you have moved a number of times in your life). It is doubtful you will be very successful; telephone numbers tend to be quite arbitrary, bearing little meaningful relationship to reality (other than perhaps area codes and other such numerical systematization). But previous street addresses, for example, are sometimes more efficiently retained since they bear some meaningful relationship to the reality of

change and learning. Learning how to learn is more important than being taught something from the "superior" vantage point of a teacher who unilaterally decides what shall be taught. Many of our present systems of education, in prescribing curricular goals and dictating what shall be learned, deny persons both freedom and dignity. What is needed, according to Rogers, is for teachers to become facilitators of learning through the establishment of interpersonal relationships with learners. Teachers, to be facilitators, must first be real and genuine, discarding masks of superiority and omniscience. Second,

overlook the facilitating effects of the native language in our penchant for analyzing errors in the second language and for overstressing the interfering effects of the first language. A more detailed discussion of the syndrome is provided in Chapters.

In the literature on second language acquisition, interference is almost as frequent a term as overgeneralization, which is, of course, a particular subset of generalization. Generalization is a crucially important and pervading strategy in human learning. To generalize means to infer or derive a law, rule, or conclusion, usually from the observation of particular instances. The principle of generalization can be explained by Ausubel's concept of meaningful learning. Meaningful learning is, in fact, generalization: items are subsumed (generalized) under higher-order categories for meaningful retention. Much of human learning involves generalization. The learning of concepts in early childhood is a process of generalizing. A child who has been exposed to various kinds of animals gradually acquires a generalized concept of "animal." That same child, however, at an early stage of generalization, might in his or her familiarity with dogs see a horse for the first time and overgeneralize the concept of "dog" and call the horse a dog. Similarly, a number of animals might be placed into a category of "dog" until the general attributes of a larger category, "animal," have been learned.

In second language acquisition it has been common to refer to overgeneralization as a process that occurs as the second language learner acts within the target language, generalizing a particular rule or item in the second language—irrespective of the native language—beyond legitimate bounds. We have already observed that children, at a particular stage of learning English as a native language, overgeneralize regular past tense endings (*walked, opened*) as applicable to all past tense forms (*goed, flied*) until they recognize a subset of verbs that belong in an "irregular" category. After gaining some exposure and familiarity with the second language, second language learners similarly will overgeneralize within the target language. Typical examples in learning English as a second language are past tense regularization and utterances like "Jolui doesn't can study" (negativization requires insertion of the *do* auxiliary before verbs) or "Me told me when should I get off the train" (indirect discourse requires normal word order, not question word order, after the *wb-* word). Unaware that these rules have special constraints, the learner overgeneralizes. Such overgeneralization is committed by learners of English from almost any native language background. (Chapter 8 gives a more detailed discussion of linguistic overgeneralization.)

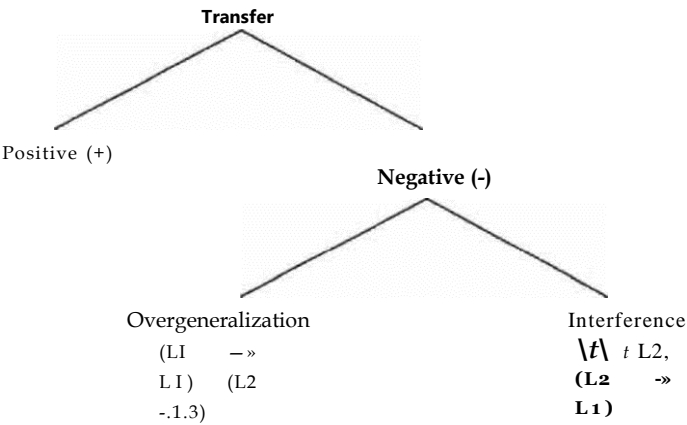


Figure 4.3. Transfer, overgeneralization, and interference

Many have been led to believe that there are only two processes of second language acquisition: interference and overgeneralization. This is obviously a misconception. First, interference and overgeneralization are the negative counterparts of the facilitating processes of transfer and generalization. (See Figure 4.3.) Second, while they are indeed aspects of somewhat different processes, they represent fundamental and interrelated components of all human learning, and when applied to second language acquisition, are simply extensions of general psychological principles. Interference of the first language in the second is simply a form of generalizing that takes prior first language experiences and applies them incorrectly. Overgeneralization is the incorrect application—negative transfer—of previously learned second language material to a present second language context. All generalizing involves transfer, and all transfer involves generalizing.

INDUCTIVE AND DEDUCTIVE REASONING

Inductive and deductive reasoning are two polar aspects of the generalization process. In the case of inductive reasoning, one stores a number of specific instances and induces a general law or rule or conclusion that governs or subsumes the specific instances. Deductive reasoning is a movement from a generalization to specific instances: specific subsumed facts are inferred or deduced from a general principle. Second language learning in the "field" (natural, untutored language learning), as well as first language learning, involves a largely inductive process, in which learners must infer certain rules and meanings from all the data around them.

Classroom learning tends to rely more than it should on deductive reasoning. Traditional—especially Grammar Translation—methods have overemphasized the use of deductive reasoning in language teaching. While it may be appropriate at times to articulate a rule and then proceed to its instances, most of the evidence in

communicative second language learning points to the superiority of an inductive approach to rules and generalizations. However, both inductively and deductively oriented teaching methods can be effective, depending on the goals and contexts of a particular language teaching situation.

An interesting extension of the inductive/deductive dichotomy was reported in Peters's (1981) case study of a child learning a first language. Peters pointed out that we are inclined, too often, to assume that a child's linguistic development proceeds from the parts to the whole, that is, children first learn sounds, then words, then sentences, and so forth. However, Peters's subject manifested a number of "Gestalt" characteristics, perceiving the whole before the parts. The subject demonstrated the perception of these wholes in the form of intonation patterns that appeared in his speech well before the particular words that would make up sentences. Peters cited other evidence of Gestalt learning in children and concluded that such "sentence learners" (vs. "word learners") may be more common than researchers had previously assumed.

The implications of Peters's study for second language teaching are rather tantalizing. We should perhaps pay close attention to learners' production of overall, meaning-bearing intonation patterns. Wong (1986) capitalizes on just such a concept in a discussion of teaching communicative oral production.

LANGUAGE APTITUDE

The learning theories, types of learning, and other processes that have so far been explained in this chapter deal with mental perception, storage, and recall. Little has been said about a related and somewhat controversial issue in second language acquisition research: language aptitude. The questions are:

1. Is there an ability or "talent" that we can call foreign language aptitude?
2. If so, what is it, and is it innate or environmentally "nurtured"?
3. Is it a distinct ability or is it an aspect of general cognitive abilities?
4. Does aptitude vary by age and by whether learning is implicit or explicit?
- 5- Can aptitudinal factors be reliably measured?
6. If so, are they predictive of success in learning a foreign language?

Do certain people have a "knack" for learning foreign languages? Anecdotal evidence would suggest that, for a variety of causal factors, some people are indeed able to learn languages faster and more efficiently than others. One perspective of looking at such aptitude is the identification of a number of characteristics of successful language learners. Risk-taking behavior, memory efficiency, intelligent guessing, and ambiguity tolerance are but a few of the many variables that have been cited (Robinson, 2005; Dornyei & Skehan, 2003; Brown, 1991; Rubin & Thompson, 1982, among others). Such factors will be the focus of the next chapter in this book.

A more **Traditional** way of examining what we mean by aptitude is through a historical progression of research that began around the middle of the twentieth century with John Carroll's (Carroll & Sapon, 1958) construction of the Modern Language Aptitude Test (MLAT). The MLAT required prospective language learners (before they began to learn a foreign language) to perform such tasks as learning numbers, discriminating sounds, detecting spelling clues and grammatical patterns, and memorizing word meanings, all either in the native language, English, or utilizing words and morphemes from a constructed, hypothetical language. The MLAT was considered to be independent of a specific foreign language, and therefore predictive of success in the learning of any language. This test, along with similar aptitude tests such as the Pimsleur language Aptitude Battery (FLAB) (Pimsleur, 1966) and the Defense Language Aptitude Battery (DLAB) (Peterson & Al Haik, 1976) were used for some time in such contexts as Peace Corps volunteer training programs and military communications courses to help predict successful language learners.

In the decade or so following their publication, the above-mentioned aptitude tests were reasonably well received by foreign language teachers and administrators, especially in view of their reportedly high correlations with ultimate success in language classrooms. But slowly, their popularity steadily waned, with few attempts to experiment with alternative measures of language aptitude (Skehan, 1998; Parry & Child, 1990). Two factors accounted for this decline. First, even though the MLAT and the FLAB claimed to measure language aptitude, it soon became apparent that they probably reflected the general intelligence or academic ability of a student in any instructional setting (see Skehan, 1989a). At best, they appeared to measure ability to perform focused, analytical, **context-reduced** activities that occupy a student in a traditional language classroom. They hardly even began to tap into the kinds of learning strategies and styles that recent research (Chamot, 2005; Cohen, 1998; Oxford, 1996, 1990b; Reid, 1995; Ehrman, 1990) has shown to be crucial in the acquisition of communicative competence in **context-embedded** situations. As we will see in the next chapter, learners can be successful for a multitude of reasons, many of which are much more related to motivation and determination than to so-called "native" abilities (Lett & O'Mara, 1990).

Second, how is one to interpret a language aptitude test? Rarely does an institution have the luxury or capability to **test** people before they take a foreign language in order to counsel certain people out of their decision to do so. And in cases where an aptitude test might be administered, such a test clearly biases both student and teacher. Both are led to believe that they will be successful or unsuccessful, depending on the aptitude test score, and a self-fulfilling prophecy is likely to occur. It is better for teachers to be optimistic for students, and in the early stages of a student's process of language learning, to monitor styles and strategies carefully, leading the student toward strategies that will aid in the process of learning and away from those blocking factors that will hinder the process.

Until very recently, only few isolated efforts continued to address foreign language aptitude and success (Farley & Hart, 1997; Sasaki, 1993a, 1993b). Then, a

new era of aptitude research seemed to have been launched with Skehan's (1998) renewed attempts to pursue the construct of aptitude. He exposed some of the weaknesses of previous aptitude constructs, and suggested that aptitude may be related to a cognitive view of second language acquisition that incorporates input processing, inductive language learning, output strategies, and fluency.

Then, with the birth of the new millennium, we saw a resurgence of interest language aptitude (Robinson, 2005, 2002, 2001; Dornyei & Skehan, 2003; Skehan, 2002; Grigorenko, Sternberg, & Ehrman, 2000). Grigorenko, Sternberg, & Ehrman (2000) proposed an aptitude battery based on Robert Sternberg's theory of intelligence (see the next section in this chapter), the CANAL-F test (Cognitive Ability for Novelty in Acquisition of Language—Foreign). This battery differs from previous ones in its involvement of the test taker in a process of learning a simulated language embedded in a multifaceted language context. Further, it is dynamic rather than static in that it measures the ability to learn at the time of taking the test.

Dornyei and Skehan (2003) followed up on the renewed interest in aptitude with the suggestion that aptitude may be related to various "stages," or what might also be called processes, of second language acquisition. So, for example, aptitude constructs such as attention and short-term memory could be relevant for processing of input in a foreign language; phonemic coding ability could contribute to noticing of phonological patterns; and aptitude constructs like inductive learning, chunking, and retrieval abilities may allow a learner to identify and integrate grammatical patterns. Dornyei and Skehan also cite other research to conclude that "aptitude is relevant not simply for conventional, explicit, rule-focused teaching contexts, but also when the learning is implicit [in natural contexts]" (p. 600).

Finally, Peter Robinson's (2005, 2002, 2001) continued work on aptitude issues probes other questions about language aptitude. Of significant interest is his specification of a host of possible abilities that extend well beyond the original abilities in Carroll's (Carroll & Sapon, 1959) early work. Robinson (2005) suggested that aptitude is a complex of abilities that include, among others, processing speed, short- and long-term memory, rote memory, planning time, pragmatic abilities, interactional intelligence, emotional intelligence, and self-efficacy.

So today the search for verifiable factors that make up aptitude, or the "knack" for teaming a foreign language, is headed in the direction of a broader spectrum of learner characteristics. Some of those characteristics fall into the question of intelligence—what is it, and how it relates to language learning—and others are matters of learning styles and strategies which we will deal with in Chapter 5. We address the issue of intelligence next.

INTELLIGENCE AND LANGUAGE LEARNING

Questions about language aptitude invariably lead to the use of the word "intelligence," a common, everyday word but one that has a multiplicity of denotations and connotations. What is intelligence? How is intelligence defined in terms of

the foreign language learning process? And more specifically, what *kinds* of intelligence are related to foreign language learning?

Intelligence has traditionally been defined and measured in terms of linguistic and logical-mathematical abilities. Our notion of IQ (intelligence Quotient) is based on several generations of testing of these two domains, stemming from the research of Alfred Binet early in the twentieth century. Success in educational institutions and in life in general seems to be a correlate of high IQ. In terms of Ausubel's meaningful learning model, high intelligence would no doubt imply a very efficient process of storing items that are particularly useful in building conceptual hierarchies and systematically pruning those that are not useful. Other cognitive psychologists have dealt in a much more sophisticated way with memory processing and recall systems.

In relating intelligence to second language learning, can we say simply that a "smart" person will be capable of learning a second language more successfully because of greater intelligence? After all, the greatest barrier to second language learning seems to boil down to a matter of memory, in the sense that if you could just remember everything you were ever taught, or you ever heard, you would be a very successful language learner. Or would you? It appears that our "language Learning IQs" are much more complicated than that.

Howard Gardner (1999, **1983**) advanced a controversial theory of intelligence that blew apart our traditional thoughts about IQ. Initially, Gardner (**1983**) described seven different intelligences which, in his view, provided a much more comprehensive picture of intelligence. Since then, he has added one more intelligence (naturalist), and has even toyed with further possible forms of intelligence (spiritual, existential, moral) (Gardner, 2004, **1999**). Beyond the traditional two forms of intelligence (listed as **1** and **2** below), the following eight multiple intelligences are typically listed in Gardner's work:

- 1.** Linguistic
- 2.** Logical-mathematical
- 3.** Musical (the ability to perceive and create pitch and rhythmic patterns)
- 4.** Spatial (the ability to find one's way around an environment, to form mental images of reality, and to transform them readily)
- 5.** Bodily-kinesthetic (fine motor movement, athletic prowess)
- 6.** Naturalist (sensitivity to natural objects (plants, animals, clouds))
- 7.** Interpersonal (the ability to understand others, how they feel, what motivates them, how they interact with one another)
- 8.** Intrapersonal intelligence (the ability to see oneself, to develop a sense of self-identity)

Gardner maintained that by looking only at the first two categories we rule out a great number of the human being's mental abilities; we see only a portion of the total capacity of the human mind. Moreover, he showed that our traditional definitions of intelligence are culture-bound. The "sixth sense" of a hunter in New

Guinea or the navigational abilities of a sailor in Micronesia are not accounted for in our Westernized definitions of IQ. His more recent work (Gardner, 2004) has focused on applications of his multiple intelligences theory to daily human interactions as we manipulate those around us in order to accomplish a variety of purposes.

In a likewise revolutionary style, Robert Sternberg (1988, 1985) has also shaken up the world of traditional intelligence measurement. In his triarchic view of intelligence, Sternberg proposed three types of "smartness":

- * Componential ability for analytical thinking
- Experiential ability to engage in creative thinking, combining disparate experiences in insightful ways
- Contextual ability: "Street smartness" that enables people to "play the game" of manipulating their environment (others, situations, institutions, contexts)

Sternberg contended that too much of psychometric theory is obsessed with mental speed, and therefore dedicated his research to tests that measure insight, real-life problem solving, "common sense," getting a wider picture of things, and other practical tasks that are closely related to success in the real world. Like Gardner, Sternberg has also recently provided a practical dimension to his research in publications that demonstrated how practical and creative intelligence can determine one's success in life (Sternberg, 2003, 1997).

Finally, in another effort to remind us of the bias of traditional definitions and tests of intelligence, Daniel Goleman's work on emotional Intelligence (1998, 1995; Merlevede, Bridoux, & Van damme, 2001) is persuasive in placing emotion, or what might be called EQ (Emotional Quotient), at the seat of intellectual functioning. The management of even a handful of core emotions—anger, fear, enjoyment, love, disgust, shame, and others—drives and controls efficient mental or cognitive processing. Even more to the point, Goleman argued that "the emotional mind is far quicker than the rational mind, springing into action without even pausing to consider what it is doing. Its quickness precludes the deliberate, analytic reflection that is the hallmark of the thinking mind" (Goleman, 1995, p. 291). Gardner's seventh and eighth types of intelligence (interpersonal and intra personal) are of course laden with emotional processing, but Goleman would place emotion at the highest level of a hierarchy of human abilities.

By expanding constructs of intelligence as Gardner, Sternberg, and Goleman have done, we can more easily discern a relationship between intelligence and second language learning. In its traditional definition, intelligence may have little to do with one's success as a second language learner: people within a wide range of IQs have proven to be successful in acquiring a second language. But Gardner attaches other important attributes to the notion of intelligence, attributes that could be crucial to second language success. Musical intelligence could explain the relative ease that some learners have in perceiving and producing the intonation patterns of a language. Music also appears to provide a natural facilitator of learning,

In his "Counseling-Learning" model of education, Charles Curran (1972) was inspired by Carl Rogers's view of education (Rogers, 1951) in which students and teacher join together to facilitate learning in a context of valuing and prizing each individual in the group. In such a surrounding, each person lowers the defenses that prevent open, interpersonal communication. The anxiety caused by the educational context is lessened by means of the supportive community. The teacher's presence is not perceived as a threat, nor is it the teacher's purpose to impose limits and boundaries; rather, as a "counselor," the teacher's role is to center his or her attention on the clients (the students) and their needs.

Curran's model of education was extended to language learning contexts in the form of Community Language Learning (CLL) (LaBerge, 1991). While particular adaptations of CLL are numerous, the basic methodology was explicit. The group of clients (learners), having first established in their native language an interpersonal relationship and trust, are seated in a circle with the counselor (teacher) on the outside of the circle. The students may be complete beginners in the foreign language. When one of them wishes to say something to the group or to an individual, he or she says it in the native language (say, English) and the counselor translates the utterance back to the learner in the second language (say, Japanese). The learner then repeats that Japanese sentence as accurately as possible. Another client responds, in English; the utterance is translated by the counselor; the client repeats it; and the conversation continues. If possible the conversation is taped for later listening, and at the end of each session the learners together inductively attempt to glean information about the new language. If desirable, the counselor may take a more directive role and provide some explanation of certain linguistic rules or items.

As the learners gain more and more familiarity with the foreign language, more and more direct communication can take place, with the counselor providing less and less direct translation and information, until after many sessions, even months or years later, the learner achieves fluency in the spoken language. The learner has at that point become independent.

There are advantages and disadvantages to a method like CLL. CLL is an attempt to put Carl Rogers's philosophy into action and to overcome some of the threatening affective factors in second language learning. But there are some practical and theoretical problems with CLL. The counselor-teacher can become too nondirective. While some intense inductive struggle is a necessary component of second language learning, the initial grueling days and weeks of floundering in ignorance in CLL could be alleviated by more directed, deductive learning: by being told. Perhaps only later, when the learner has moved to more independence, is an inductive strategy really successful. And, of course, the success of CLL depends largely on the **translation** expertise of the counselor. Translation is an intricate and complex process that is often easier said than done; if subtle aspects of language are mis-translated, there could be a less than effective understanding of the target language.

Despite its weaknesses, CLL offers certain insights to teachers. We are reminded to lower learners' anxiety, to create as much of a supportive group in our classrooms as possible, to allow students to initiate language, and to point learners toward autonomous teaming in preparation for the day when they no longer have the teacher to guide them. And while we are certainly offered an example of a method that diverged completely from the behaviorally inspired AIM, we are also reminded that most effective language classrooms manifest bits and pieces of *both* of these contrasting methods. We are reminded of our need to be eclectically judicious in selecting tasks for our lessons.

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We have much to gain from the understanding of learning principles that have been presented in this chapter, of the various ways of understanding what intelligence is, and of how research on learning has been applied to the language classroom. Some aspects of language learning may call upon a conditioning process (as highlighted in the AIM); other aspects require a meaningful cognitive process; others depend upon the security of supportive co-learners interacting freely and willingly with one another (as exemplified in CLL); still others are related to one's total intellectual structure. Each aspect is important, but there is no consistent amalgamation

of theory that works for every context of second language learning. Each teacher has to adopt a somewhat intuitive process of discerning the best synthesis of theory for an enlightened analysis of the particular context at hand. That intuition will be nurtured by an integrated understanding of the appropriateness and of the strengths and weaknesses of varied perspectives on learning.

TOPICS AND QUESTIONS FOR STUDY AND DISCUSSION

Note: (I) individual work; (G) group or pair work; (C) whole-class discussion,

1. (G) The class should be divided into four groups, with one of the four learning theorists discussed in the chapter assigned to each group. Tasks for the groups are to "defend" their particular theory as the most insightful or complete. To do so, each group will need to summarize strengths and to anticipate arguments from other groups.
2. (C) The results of the four groups' findings can be presented to the rest of the class in a "debate" about which learning theory has the most to contribute to understanding the SLA process.
- 3- (C) Tease apart the distinction between elicited and emitted responses. Can you specify some operants that are emitted by the learner in a foreign language class? And some responses that are elicited? Specify some of the reinforcers that are present in language classes. How effective are certain reinforcers?
4. (T) Skinner felt that punishment, or negative reinforcement, was just another way of calling attention to undesired behavior and therefore should be avoided. Do you think correction of student errors in a classroom is negative reinforcement? How can error treatment be given a positive spin, in Skinnerian terms?
5. (G) List some activities you consider to be rote and others that are meaningful in foreign language classes you have taken (or are teaching). Do some activities fall into a gray area between the two? Evaluate the effectiveness of all the activities your group has listed. Share your conclusions with the rest of the class.
6. (G) In pairs, quickly brainstorm some examples of "cognitive pruning" or systematic forgetting that occur in a foreign language classroom. For example, do definitions fall into this category? Or grammatical rules? Cite some ways that a teacher might foster such pruning.
7. (C) In one sense Skinner, Ausubel, and Rogers represent quite different points of view – at least they focus on different facets of human learning. Do you think it is possible to synthesize the three points of view? In what way are all three psychologists expressing the "truth"? In what way do they differ substantially? Try to formulate an integrated understanding of human learning by taking the best of all three points of view. Does your integrated theory tell you something about how people learn a second language? About how you should teach a second language?
8. (G) Look back at the section on foreign language aptitude. From what you have learned, what factors do you think should be represented in a comprehensive test of aptitude? Compare your group's suggestions with those of other groups.
- 9- (G/C) The class should be divided into as many as eight pairs. To each pair, assign one of Gardner's eight multiple intelligences. ("Additional pairs could tackle Gardner's proposed spiritual, existential, and moral intelligences.") In your group, brainstorm typical language classroom activities or techniques that foster your type of intelligence. Make a list of your activities and compare it with the other lists.

SUGGESTED READINGS

Lightbown, P., & Spada, N. (1993). *How languages are learned*. Oxford; Oxford University Press.

Williams, M., & Burden, R. (1997). *Psychology for language teachers: A social constructivist approach*. Cambridge, UK: Cambridge University Press.

These two introductory SLA textbooks, written in language that is comprehensible to first-level graduate students, provide useful summaries of theories of learning, including some perspectives that were not covered in this chapter

Robinson, P (2005). Aptitude and L2 acquisition. *Annual Review of Applied Linguistics*, 25,46-73-

Skehan. P. (2002). Theorising and updating aptitude. In P. Robinson (Ed.), *Individual differences and instructed language learning* (pp. 69-93). Amsterdam: Benjamins.

Research on language aptitude was in a period of quiescence for several decades until recently, when research on the issue was revived. In these two articles, Peter Robinson and Peter Skehan offer informative summaries of current developments in research on language aptitude.

Gardner, H (2004). *Changing minds*. Boston, MA: Harvard Business School Press Goleman. D, (1998), *Working with emotional intelligence*. New York: Bantam Books.

Sternberg, R. (2003). *Wisdom, intelligence, and creativity synthesized*. New York: Cambridge University Press.

These three books demonstrate the evolution of the work of the three intelligence researchers, Howard Gardner, Daniel Goleman, and Robert Sternberg, now addressed to lay audiences. They show how their views of "smartness" can be applied to everyday situations and problems and relationships. While these books are not focused on language acquisition, some of the advice contained therein can be adapted to language learning.

LANGUAGE LEARNING EXPERIENCE: JOURNAL ENTRY 4

Note: See pages 21 and 22 of Chapter 1 for general guidelines for writing a journal on a previous or concurrent language learning experience.

- If you had to classify your approach to learning a foreign language, would it be more Skinnerian, Ausubelian, or Rogersian? Or a combination of them?
- Sometimes teachers don't give students opportunities to *emit* language in the classroom, and just keep *eliciting* too much. Sometimes it's the other way around. What is your experience? If you feel (or have felt) that you don't have enough chances to volunteer to speak, what can (could) you do to change that pattern?
- Rogers recommended "nondefensive" learning. Do you feel that you are learning to defend yourself against the teacher's disapproval, or against your classmates, or against bad grades? Are your classmates your allies or competitors?
- Short of actually taking a traditional language aptitude test, how would you assess your own "knack" for learning languages? Whether your self-assessment is high or low, what do you think are key components of high language aptitude? Can you "learn" some of those abilities?

Do any of Gardner's eight types of intelligence strike you as being crucial to your success in your foreign language? Or how about Sternberg's three views of intelligence? Or Goleman's EQ? Are there any intelligences that you underutilize? What can you do about that?

Have you been taught with either Audiolingual techniques (rote repetition and drills) or (11) like activities (small, supportive groups that are encouraged to initiate your own utterances), discussed at the end of the chapter? If so, what is (was) your assessment of their effectiveness?

STYLES AND STRATEGIES

Theories of learning, Gagne's "types" of learning, transfer processes, and aptitude and intelligence models are all attempts to describe universal human traits in learning. They seek to explain globally how people perceive, filter, store, and recall information. Such processes, the unifying theme of the previous chapter, do not account for the plethora of differences *across* individuals in the way they learn, or for differences *within* any one individual. While we all exhibit inherently human traits of learning, every individual approaches a problem or learns a set of facts or organizes a combination of feelings from a unique perspective. This chapter deals with cognitive variations in learning a second language, i.e., variations in learning styles that differ across individuals, and in strategies employed by individuals to attack particular problems in particular contexts.

PROCESS, STYLE, AND STRATEGY

Before we look specifically at some styles and strategies of second language learning, a few words are in order to explain the differences among process, style, and strategy as the terms are used in the literature on second language acquisition. Historically, there has been some confusion in the use of these three terms, and even in recent literature you will find some variations in uses of the terms. Cohen (1998), for example, likes to refer to strategies that are habitual and no longer in the learner's conscious control as "processes." And so it is important to carefully define these terms here at the outset.

Process is the most general of the three concepts, and was essentially the focus of the previous chapter. All human beings engage in certain universal processes. Just as we all need air, water, and food for our survival, so do all humans of normal intelligence engage in certain levels or types of learning. Human beings universally make stimulus-response connections and are driven by reinforcement. We all engage in association, meaningful and rote storage, transfer, generalization, and interference. Everyone has some degree of aptitude for learning a second language that may be described by specified verbal learning processes. We all possess, in varying

necessary. In second language learning, then, it may be incorrect to assume that learners should be either FI or FD. It is more likely that persons have general inclinations, but, given certain contexts, can exercise a sufficient degree of an appropriate style. The burden on the learner is to invoke the appropriate style for the context. The burden on the teacher is to understand the preferred styles of each learner and to sow the seeds for flexibility.

The process of developing within learners a sense of autonomy required the use (and sometimes invention) of strategies, as aptly demonstrated by Wenden (1992). After all, how many students enter a foreign language class knowing anything at all about the process of language learning, or about the "tricks of the trade" in successfully acquiring an additional language? With the aid of research on achieving autonomy (Schmenk, 2005; Palfreyman, 2003; Benson & Toogood, 2002; Benson, 2001; Cotterall & Crabbe, 1999; Benson & Voller, 1997; Pennycook, 1997; Pemberton, 1996; Riley, 1988) language programs and courses increasingly emphasized to students the importance of self-starting and of taking responsibility for one's own learning.

The literature on the topic raises some caution flags. Schmenk (2005) appropriately described the nonuniversality of the concept of autonomy, and Pennycook (1997) warned us about the potential cultural imperialism involved in assuming every culture equally values and promotes autonomy, especially in educational institutions. For language teaching in sub-Saharan Africa, Sonaiya (2002, p. 106) questioned "the global validity of the so-called *autonomous* method of language learning ... which has obvious origins in European and North American traditions of individualism."

However, some recent studies are more encouraging. Underscoring the need for teachers to be sensitive to the cultural background of students, Carter (2001) suggested that while learners in Trinidad and Tobago traditionally rely heavily on

teachers as managers of their learning, autonomy can nevertheless be fostered through what she described as a "context-sensitive" model (p. 26). SimUarly, Spratt, Humphreys, and Chan (2002) found that autonomy could be promoted among learners in Hong Kong, as long as an appropriate level of motivation was present. Schmenk (2005, p. 115) recommended a "glocatization" (a combination of both global and local considerations) of the concept of autonomy in non-Western cultures, one that involves "a critical awareness of .., specific cultural backdrops and impacts" as teachers involve students in autonomous learning.

Closely linked to the concept of autonomy is the demand on learners to become aware of their own processes of learning. Do you remember the first foreign language course you ever took? To what extent did your teacher or your textbook help you to become aware of what language learning was all about? Were you offered activities that would help you to monitor your own learning process? To help you to assess your own strengths and weaknesses? To suggest strategies that might help you to become more successful?

Until recently, tew courses in languages provided such opportunities for learners to become aware of what language learning was afl about and what they could do to become better learners. Now, with the backdrop of a good deal of research on awareness and "consciousness raising," language programs are offering more occasions for learners to develop a metacognitive awareness of their ongoing learning. In fact, a whole new journal, *Language Awareness*, has been devoted to the concept, and research findings are coming in. Lightbown and Spada (2000), for example, showed that English learners in Quebec displayed no awareness of their own intuitions about language learning, and suggested further attempts to help students to increase awareness. Simard and Wong (200-4) described an awareness-of-language program in the United Kingdom which helped students to engage in metalinguistic reflection. Nakatani (2005) trained English learners in Japan to focus explicitly on oral production strategies, which resulted in improved performance in speaking. Rosa and feow (2004) found that learners of Spanish as a second language in the United States showed improved performance under conditions of awareness-raising.

What we are Learning from these studies is that learners can indeed benefit from raised awareness of their own processes of learning. Undoubtedly, as we will see in Chapter 9, there is an optimal level of awareness (Lightbown & Spada, 1990) that serves learners. In other words, too much awareness, too much explicit focus on grammar, or too much devotion to rules, coupled with not enough intuitive, sub-conscious communication, will smother learners' yearning to simply *use* language, unfettered by overattention to correctness. But some levels of awareness are clearly-warranted, and in this chapter we will speak to the issue of strategic awareness: the conscious application of appropriate strategies.

The final "A" in this section is simply a reminder to all that awareness without action will be relatively useless. Once learners can become aware of their predispositions, their styles, and their strengths and weaknesses, they can then take appropriate action in the form of a plethora of strategies that arc available to them. Not

1 32 CHAPTER 5 Styles and Strategies

ail strategies are appropriate for ali learners. A learner who, for example, is already aware of an ambiguity tolerant, right-brain style sureiy will not need a battery of new strategies to open up, to be calm in the face of a storm of incomprehensible language, or to take in the big picture. Such strategies are already naturally in place. However, a learner who represents the other side of the coin—intolerant of ambiguity, analytical, linear thinking—can obviously benefit from an awareness of those proclivities and from taking appropriate strategic action.

STRATEGIES

If styles are general characteristics that differentiate one individual from another, then strategies are those specific "attacks" that we make on a given problem, and that vary considerably within each

individual. They are the moment-by-moment techniques that we employ to solve "problems" posed by second language input and output. Chamot (2005, p, 112) defines strategies quite broadly as "procedures that facilitate a learning task. . . . Strategies are most often conscious and goal driven." The field of second language acquisition has distinguished between two types of strategy: learning strategies and communication strategies. The former relate to input—to processing, storage, and retrieval, that is, to taking in messages from others. The latter pertain to output, how we productively express meaning, how we deliver messages to others. We will examine both types of strategy here.

First, a brief historical note on the study of second language learners' strategies. As our knowledge of second language acquisition increased markedly during the 1970s, teachers and researchers came to realize that no single research finding and no single method of language teaching would usher in an era of universal success in teaching a second language. We saw that certain learners seemed to be successful regardless of methods or techniques of teaching. We began to see the importance of individual variation in language learning. Certain people appeared to be endowed with abilities to succeed; others lacked those abilities. This observation led Rubin (1975) and Stern (1975) to describe "good" language learners in terms of personal characteristics, styles, and strategies. Rubin (Rubin & Thompson, 1982) later summarized fourteen such characteristics. Good language learners:

1. Find their own way, taking charge of their learning
2. Organize information about language
3. Are creative, developing a "feel" for the language by experimenting with its grammar and words
4. Make their own opportunities for practice in using the language inside and outside the classroom
5. Learn to live with uncertainty by not getting flustered and by continuing to talk or listen without understanding every word
6. Use mnemonics and other memory strategies to recall what has been learned
7. Make errors work for them and not against them
8. Use linguistic knowledge, including knowledge of their first language, in learning a second language
9. Use contextual cues to help them in comprehension
10. Learn to make intelligent guesses
11. Learn chunks of language as wholes and formalized routines to help them perform "beyond their competence"
12. Learn certain tricks that help to keep conversations going
- 13- Learn certain production strategies to fill in gaps in their own competence
14. Learn different styles of speech and writing and learn to vary their language according to the formality of the situation

Such lists, speculative as they were in the mid-1970s, inspired a group of collaborators in Toronto to undertake a study of good language learning traits (Naiman et al., 1978, reprinted in **1996**). While the empirical results of the Toronto study were somewhat disappointing, they nevertheless spurred many other researchers to try to identify characteristics of "successful" language learners (see Stevick 1989, for example), and even unsuccessful learners (Vann & Abraham, 1990). Such research led others (Rubin & Thompson, 1982; Brown, 1989, 1991; Marshall, 1989) to offer advice to would-be students of foreign language on how to become better learners.

In more recent research, with the increasing interest in social construed vis t analyses of language acquisition, we find a shift of focus away from merely searching for universal cognitive and affective characteristics of successful learners. Drawing on the work of Vygotsky (**1978**) and Bakhtin (1990, 1986), Norton and Toohey (2001) suggested quite a different viewpoint. They adopt a sociocultural approach that looks at learners as participants in a community of language users in "local contexts in which specific practices create possibilities for them to learn English" (p.311). Fundamental to their point of view is the *identity* that each learner creates in a socially constructed context. As learners *invest* in their learning process, they create avenues of success,

A comparison of earlier views of successful learners with more recent social constructivist research may eventually yield an amalgamation of the two strands: Teachers, on the one hand, can benefit from attending to what might indeed be very common strategies for successful learning across many cultures

and contexts, but on the other hand, they need to be ever mindful of individual needs and variations as well as the cultural context of learning.

Learning Strategies

The research of the mid-1970s led to some very careful defining of specific learning strategies. In some of the most comprehensive research of this kind, Michael O'Malley and Anna Chamot and colleagues (O'Malley et al., 1983, 1985a, 1985b, 1987, 1989; Chamot & O'Malley, 1986, 1987; O'Malley and Chamot, 1990; Chamot, Barnhart. El-Dinary, & Robins, 1999) studied the use of strategies by learners of English as a second language in the United States.

Typically, strategies were divided into three main categories, as noted in Table 5.2. **Metacognitive** is a term used in information-processing theory to indicate an "executive" function, strategies that involve planning for learning, thinking about the learning process as it is taking place, monitoring of one's production or comprehension, and evaluating learning after an activity is completed (Purpura. 199~). **Cognitive strategies** are more limited to specific learning tasks and involve more direct manipulation of the learning material itself. **Socioaffective strategies** have to do with social-mediating activity and interacting with others. Note that the latter strategy, along with some of the other strategies listed in Table 5.2, are actually **communication strategies**

Table 5.2. Learning strategies

Learning Strategy	Description
Meta cognitive strategies	
Advance organizers	Making a general but comprehensive preview of the organizing concept or principle in an anticipated learning activity
Directed attention	Deciding in advance to attend in general to a learning task and to ignore irrelevant detractors
Selective attention	Deciding in advance to attend to specific aspects of language input or situational details that will cue the retention of language input
Self-management	Undersanding the conditions that help one learn and arranging for ihe presence of those conditions
Functional planning	Planning for and rehearsing linguistic components necessary to carry out an upcoming language task
Self-monitoring	Correcting one's speech for accuracy in pronunciation, grammar, vocabulary, or tor appropriateness related to the setting or to the people who are present
Delayed production	Consciously deciding to postpone speaking in ordeï to learn initially through listening comprehension
Seli-evaluation	Checking the outcomes ot one's own language learning againstl an internal measure of completeness and accuracy
Cognitive Strategies	
Repetition	Imitating a language model, including overt practice and silent rehearsal
Resourcing	Using target language reference materials

cnntinued on next page)

table 5.2. Learning strategies {continued}

Learning Strategy	Description
Cognitive Strategies	
Translation	Using the first language as a base for understanding and/or producing the second language
Grouping	Reordering or reclassifying, and perhaps labeling, the material to be learned based on common attributes
Note taking	Writing down the main idea, important points, outline, or summary of information presented orally or in writing
Deduction	Consciously applying rules to produce or understand the second language
Recombination	Constructing a meaningful sentence or larger language sequence by combining known elements in a new way
Imagery	Relating new information to visual concepts in memory via familiar, easily retrievable visualizations, phrases, , it h jiions
Auditory representation	Retention or the sound or a similai sound (oi a word, phrase, or longer language sequence
Keyword	Remembering a new word in the second language by (1) identifying a familiar word in the first language that sounds like or otherwise resembles the new word and 12j generating easily recalled images of some relationship between the new word and the familiar word
Coniextualization	Placing a word or phrase In a meaningful language sequence
Elaboration	Relating new informal ion to other concepts in memory
Transfer	Using previously acquired linguistic and/or conceptual knowledge lo facilitate a new language learning task
inlerencing	Using availahle information to guess meanings of new items, predict outcomes, or fill in missing information
Socioaffective Strategies	
Cooperation	Working with one or more peers to obtain feedback, pool informal ion, or model a language activity
Question for clarification	Asking a teacher or other native speaker for repetition, paraphrasing, explanation, and/or examples

Source: O'Malley et af. 1985b. pp 5B2-584

repetition and seeking various forms of clarification. Huang and Van Naerssen (1987) attributed the oral production success of Chinese learners of English to functional practice (using language for communication) and, even more interesting, to reading practice. And the research continues.

STRATEGIES-BASED INSTRUCTION

Much of the work of researchers and teachers on the application of both learning and communication strategies to classroom learning has come to be known generically as strategies-based instruction (SBI) (McDonough, 1999; Cohen, 1998), or as learner strategy training. Cohen (1998) likes to refer to "5581"—*styles* and strategies-based instruction—to emphasize the productive link between styles and strategies. As we seek to make the language classroom an effective milieu for learning, it has become increasingly apparent that "teaching learners how to learn" is crucial. Wenden (1985) was among the first to assert that learner strategies are the key to learner autonomy, and that one of the most important goals of language teaching should be the facilitation of that autonomy. Chamot (2005, p. 123) further concluded that "explicit instruction is far more effective than simply asking students to use one or more strategies and also fosters metacognition, students' ability to understand their own thinking and learning processes."

Teachers can benefit from an understanding of what makes learners successful and unsuccessful, and establish in the classroom a milieu for the realization of successful strategies. Teachers cannot always expect instant success in that effort since students often bring with them certain preconceived notions of what "ought" to go on in the classroom (Bialystok, 1985). However, it has been found that students will benefit from SBI if they (1) understand the strategy itself, (2) perceive it to be effective,

Direct Strategies: Memory, Cognitive, and Compensation Strategies

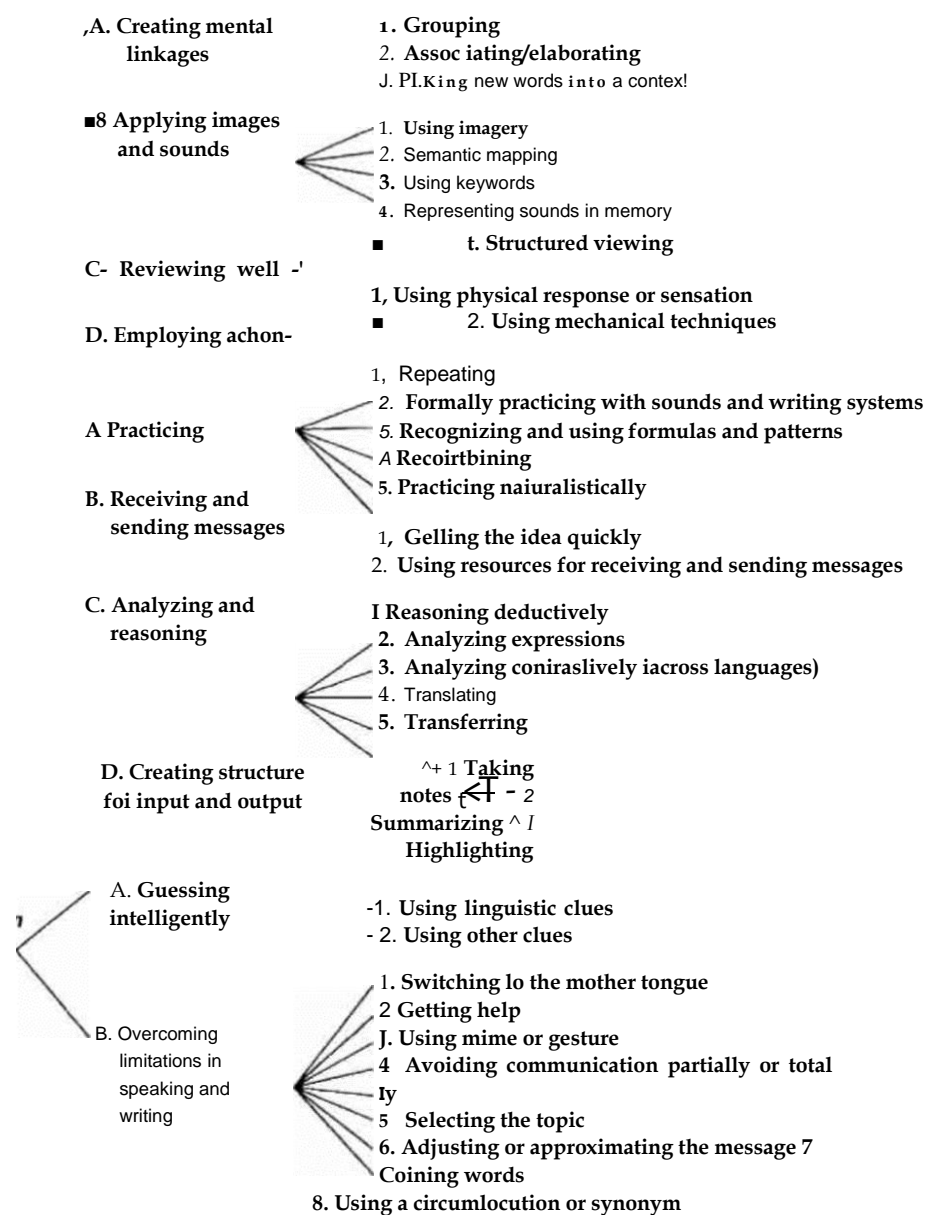


Figure 5.1. Oxford's strategy classification system (Oxford, 1990a 1

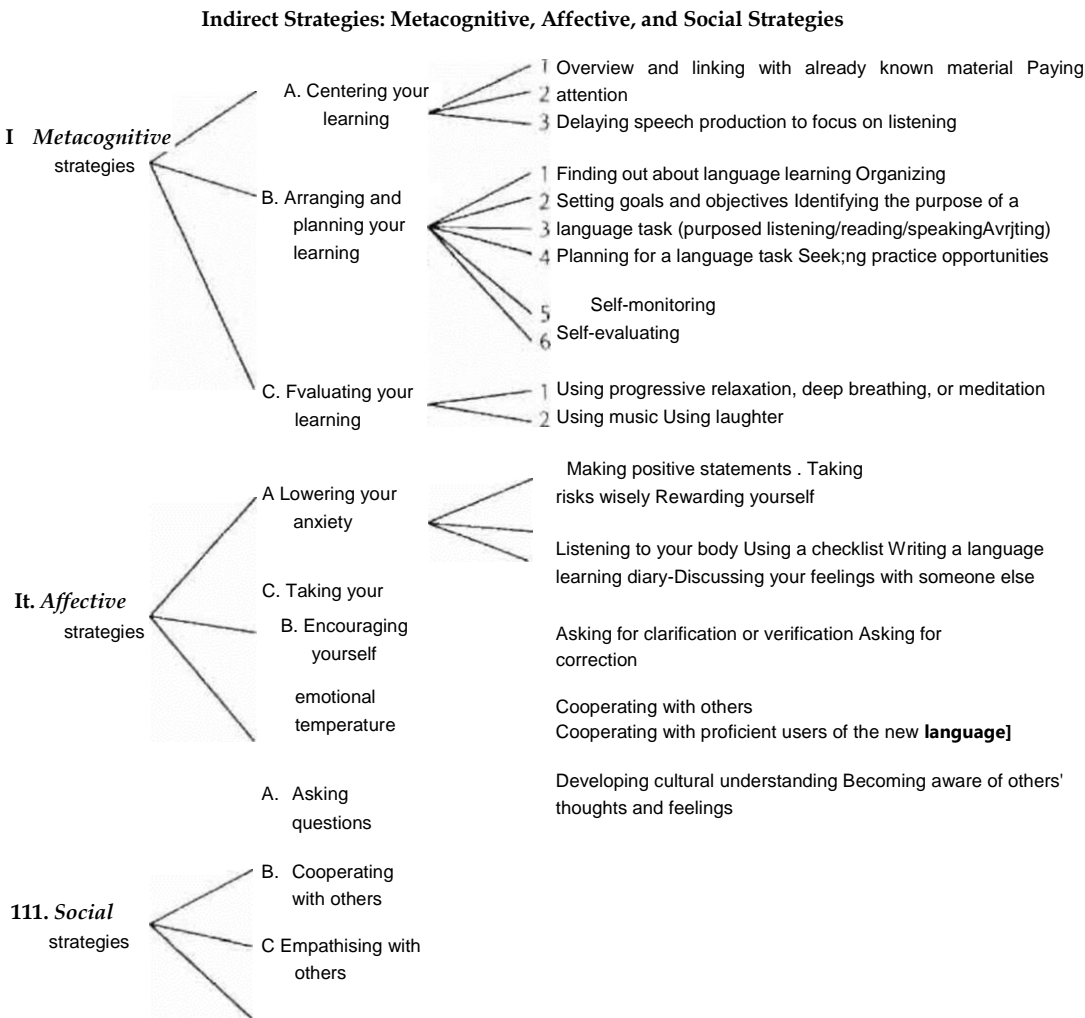


Figure 5.1, Oxford's strategy classification system (Oxford, 1990a) **[continued]**

and (3) do not consider its implementation to be overly difficult (MacIntyre & Noels, 1996). Therefore our efforts to teach students some technical know-how about how to tackte a language are well advised.

The effective implementation of SBI in language classrooms involves several steps and considerations: (1) identifying learners' styles and potential strategies; (2) incorporating SBI in communicative language courses and classrooms; (3) providing extra-class assistance for learners.

2. I like to try out new words and structures that I'm not completely sure of.	I like to use only language that I am certain is correct.
3. I feel very confident in my ability to succeed in learning this language.	I feel quite uncertain about my ability to succeed in learning this language.
4. I want to learn this language because of what I can personally gain from it.	I am learning this language only because someone else is requiring it.
5. I really enjoy working with other people in groups.	I would much rather work alone than with other people
6. I like to "absorb" language and get the general "gist" of what is said or written.	I like to analyze the many details of language and understand exactly what is said or written,
7. If there is an abundance of language to master, I just try to take things one step at a time.	I am very annoyed by an abundance of language material presented all at once.
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8. I am not overly conscious of myself when I speak.	When I make a mistake, it annoys me because that's a symbol of how poor my performance is-
9. When I make mistakes, I try to use them to learn something about the language.	I look to the teacher and the classroom activities for everything I need to be successful
10. I find ways to continue learning language outside of the classroom.	I "monitor" myself very carefully and consciously when I speak.
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Figure 5.2. Learning styles checklist

the SILL? The SILL serves as an instrument to expose learners to possibilities, but teachers must assume the responsibility for seeing to it that learners are aided in putting certain strategies into practice.

Other forms of identifying styles and strategies, and for raising them to the consciousness of learners, include self-reports through interviews (Macaro, 2001), written diaries and journals (Carson & Longhini, 2002; Halbach, 2000), think-aloud protocols (Macaro, 2000; O'Malley & Chamot, 1990) in which an interviewer or teacher prompts the learner with questions like, "Why did you hesitate and restate that verb form?" and through student portfolios. Chamot (2005) offered a useful summary of these options.

Incorporating SB1 into the Language Classroom

Several different manifestations of SB1 can be found in language classes around the world. Through checklists, and other methods discussed above, teachers can become aware of students' tendencies and then offer informal, unplanned advice on beneficial in-class and extra-class strategies. They can essentially be attuned to their role as facilitators of strategic action through tips and pointers and perhaps even anecdotes about "how I learned ..., when I was in your shoes."

Teachers can also help students to put the results of a styles questionnaire, such as the one in Figure 5.2, to immediate practical use. Once students have had a chance, with no advance "coaching," to fill out the checklist, you can engage them in any or all of the following: (1) a discussion of why they responded as they did, (2) small-group sharing of feelings underlying their responses, (3) an informal tabulation of how people responded to each item, (4) some advice, from your own experience, on why certain practices may be successful or unsuccessful, or (5) reaching the general consensus that responses in the A and B categories are usually indicative of successful approaches to language learning.

The style preference questionnaire in Figure 5-2 is actually designed so that each item highlights a "maxim" for good language learning. Item by item, numbered 1 through 10, the questionnaire serves to highlight the following 10 suggestions:

1. Lower inhibitions,
2. Encourage risk taking.
- 3- Build self-confidence.
4. Develop intrinsic motivation.
- 5- Engage in cooperative learning.
6. Use right-brain processes.
7. Promote ambiguity tolerance.
8. Practice intuition.
9. Process error feedback.
10. Set personal goals.

Another option being used by language teachers is to embed strategy awareness and practice into their pedagogy (Brown, 2002, 2001, 1991, 1989; Rubin & Thompson, 1994; Ellis & Sinclair, 1989) in more formal ways. Many current textbooks now include strategy awareness modules as part of the ongoing curriculum. Even without such overt material, as teachers utilize such techniques as communicative games, rapid reading, fluency exercises, and error analysis, they can help students both consciously

Table 5.4. Building strategic techniques

1. To lower inhibitions: Play guessing games and communication games; do role plays and skits; sing songs; use plenty of group work; laugh with your students; have them share their fears in small groups.
2. To encourage risk taking: Praise students for making sincere efforts to try out language; use fluency exercises where errors are not corrected at that time; give outside-of-class assignments to speak or write or otherwise try out the language.
3. To build students' self-confidence: Tell students explicitly (verbally and nonverbally) that you do indeed believe in them; have them make lists of their strengths, of what they know or have accomplished so far in the course.
4. To help students develop intrinsic motivation: Remind them explicitly about the rewards for learning English; describe (or have students look up) jobs that require English; play down the final examination in favor of helping students to see rewards for themselves beyond the final exam.
5. To promote cooperative learning: Direct students to share their knowledge; play down competition among students; get your class to think of themselves as a team; do a considerable amount of small-group work.
6. To encourage students to use right-brain processing: Use movies and tapes in class; have students read passages rapidly; do skimming exercises; do rapid "free writes"; do oral fluency exercises where the object is to get students to talk (or write) a lot without being corrected.
7. To promote ambiguity tolerance: Encourage students to ask you, and each other, questions when they don't understand something; keep your theoretical explanations very simple and brief; deal with just a few rules at a time; occasionally resort to translation into a native language to clarify a word or meaning.
8. To help students use their intuition: Praise students for good guesses; do not always give explanations of errors- let a correction suffice; correct only selected errors, preferably just those that interfere with learning.
9. To get students to make their mistakes work FOR them: Tape-record students' oral production and get them to identify errors; let students catch and correct each other's errors – do not always give them the correct form; encourage students to make lists of their common errors and to work on them on their own.
10. To get students to set their own goals: Explicitly encourage or direct students to go beyond the classroom goals; have them make lists of what they will accomplish on their own in a particular week; get students to make specific time commitments at home to study the language; give "extra credit" work.

aided subconsciously to practice successful strategies. So for example, when students are playing a guessing game, performing a skit, or even singing songs, the teacher can remind them that they are practicing strategies for lowering inhibitions. Table 5-4 provides a list of ways to "build strategic techniques" in a language classroom.

Stimulating Strategic Action Beyond the Classroom

Finally, it is important to note that style awareness and strategic action are not limited to the classroom. Many so-called successful learners have reached their goals of mastery through their own self-motivated efforts to extend learning well beyond the confines of a classroom. Teachers can help learners to achieve this further step toward *autonomy* by helping learners to look beyond the classroom and the language course they are in. The ultimate purpose in engaging students in SBI is not simply to complete one language course. Teachers can help learners to see that raising their conscious awareness of styles and strategies aids them in the authentic use of language "out there." The classroom is an opportunity for learners to *begin* the journey toward success, and to grasp the reality that beyond those classroom hours are dozens of hours weekly that can be devoted to practice meaningful uses of the new language.

We have much to learn in the creation of practical techniques for teaching learners how to identify their styles and use strategies effectively, but this remains a very exciting and promising area of pedagogical research at the present time.

In these two review articles, Neil Anderson and Anna Chamot summarize the state of the art in research on learning strategies and strategies-based instruction, and offer extensive sets of references on the topic.

Benson, R, & Voller, R (Eds.). (1997). *Autonomy and independence in language learning*, London: Longman.
Palfreyman, D., & Smith, R. (Eds.). (2003)- *Learner autonomy across cultures: Language education perspectives*. Basingstoke, England: Falgrave Macmillan.

These two anthologies offer a compendium of research on autonomy in language learning from many perspectives. In particular, the question of how successfully students can develop autonomy across divergent cultures is treated in many of the articles in both volumes.

Oxford, R. (Ed.). (1996). *Learning strategies around the world: Cross-cultural perspectives*. Honolulu: University of Hawaii Press.

Oxford, K., & Anderson, N. (1995). A crosscultural view of learning styles. *Language Teaching*. 28, 201-215.

These two publications offer a comprehensive summary of cross-cultural research on learning styles, and more than a dozen specific cross-cultural studies of style awareness and strategy use.

Oxford, R. (1990a), *Language learning strategies: What every teacher should know*. New York: Newbury House,

Don't let the copyright date of 1990 fool you – it's a classic Rebecca Oxford's book is still contemporary and a must read for a wealth of practical information on strategies-based instruction along with explanations of dozens of types

of strategies Information Lt conveniently organized around the four skills of listening, speaking, reading, and writing.

Brown, H. D. (2002), *Strategies for success: A practical guide to learning English* White Plains, NY: Pearson Education.

This little guide for students, with an introduction for teachers, gives an idea of how to get learners strategically involwd in their acqisition process. It also contains a number of self-check tests that introduce the concept of awareness, and then students are. led to take action through specific strategies.

LANGUAGE LEARNING EXPERIENCE: JOURNAL ENTRY 5

Note: See pages 2] and 22 of Chapter 1 for general guidelines for writing a journal on a previous or concurrent language learning experience.

- List each of the five learning styles discussed in the chapter (FID, right/left brain, ambiguity tolerance, reflectivity/mipulsiviry, visual/auditory/kinesthetic). Write a few sentences about which side you think is dominant for you. and list some examples in your Language learning to illustrate,
- * Wliich of your preferences, styles, or tendencies, if any, do you think might be working against you? Make a short list of specific things you could do to help push yourself to a more favorable position.
- * Take the Learning Styles Checklist (Figure 5.2). Do you think you should try to change some of your styles, as they arc described on the checklist? How would you do that?
- f** How autonomous are you as a language learner? Make a list of ways that you could become more autonomous. And, for a challenge, write about what a teacher can do to help a learner develop autonomy,
- * If you are now taking a foreign language, you are becoming quite aware of your own learning processes. In previous language learning experiences, how overtly aware were you of factors like "good language learner" characteristics, your own styles, and strategies you could consciously apply? What would you have done differently then, knowing what you know now? What can you do differendy in a current language learning situation, given what you now know from reading this chapter on styles and strategies?
- * Using the list of learning strategies (Table 5.2), describe examples of two or three of them that you have already used. Pick one or two that you don't use very much and list them as your challenge for the near future.

Write about communication strategies that you have used. Does the list of communication strategies in Table 5.3 give you some ideas about what you could be doing to advance your communicative success? Try to write down one or two specific things you will try out in the near future in a foreign language.

How does your teacher (either now or in the past) measure up as a strategies-based instructor? What does this tell you about how your own teaching might help students to be more successful learners?

CHAPTER 6

PERSONALITY FACTORS

CHAPTERS 4 and 5 dealt with two facets of the cognitive domain of language learning: human learning processes in general, and cognitive variations in learning—styles and strategies. Similarly, this chapter and Chapter 7 deal with two facets of the affective domain of second language acquisition. The first of these is the intrinsic side of affectivity: personality factors within a person that contribute in some way to the success of language learning. The second facet, treated in Chapter 7, encompasses extrinsic factors—sociocultural variables that emerge as the second language learner brings not just two languages into contact but two cultures, and in some sense must learn a second culture along with a second language.

If we were to devise theories of second language acquisition or teaching methodologies that were based only on cognitive considerations, we would be omitting the most fundamental side of human behavior, Ernest Hilgard, well known for his study of human learning and cognition, once noted that "purely cognitive theories of learning will be rejected unless a role is assigned to affectivity" (1963, p. 267). In recent thinking (Dornyei & Skehan, 2003; Arnold, 1999), there is no doubt at all about the importance of examining personality factors in building a theory of second language acquisition.

The affective domain is difficult to describe scientifically. A large number of variables are implied in considering the emotional side of human behavior in the second language learning process. One problem in striving for affective explanations of language success is presented by the task of subdividing and categorizing the factors of the affective domain. We are often tempted to use rather sweeping terms as if they were carefully defined.

For example, it is easy enough to say that "culture conflict" accounts for many language learning problems, or that "motivation" is the key to success in a foreign language; but it is quite another matter to define such terms with precision. Psychologists also experience a difficulty in defining terms. Abstract concepts such as empathy, aggression, extroversion, and other common labels are difficult to define empirically. Standardized psychological tests often form an operational definition of such concepts, but constant revisions are evidence of an ongoing struggle for validity. Nevertheless, the elusive nature of affective and cognitive concepts need not deter us

from seeking answers to questions. Careful, systematic study of the role of personality in second language acquisition has already led to a greater understanding of the language learning process and to improved language teaching designs.

THE AFFECTIVE DOMAIN

Affect refers to emotion or feeling. The affective domain is the emotional side of human behavior, and it may be juxtaposed to the cognitive side. The development of affective states or feelings involves a variety of personality factors, feelings both about ourselves and about others with whom we come into contact.

Benjamin Bloom and his colleagues (Krathwohl, Bloom, & Masia, 1964) provided a useful extended definition of the affective domain that is still widely used today.

1. At the first and fundamental level, the development of affectivity begins with *receiving*. Persons must be aware of the environment surrounding them and be conscious of situations, phenomena, people, objects; be willing to receive—to tolerate a stimulus, not avoid it—and give a stimulus their controlled or selected attention.
2. Next, persons must go beyond receiving to *responding*, committing themselves in at least some small measure to a phenomenon or a person. Such responding in one dimension may be in acquiescence, but in another higher dimension, the person is willing to respond voluntarily without coercion, and then receives satisfaction from that response-
3. The third level of affectivity involves *valuing*: placing worth on a thing, a behavior, or a person. Valuing takes on the characteristics of beliefs or attitudes as values are internalized. Individuals do not merely accept a value to the point of being willing to be identified with it, but commit themselves to the value to pursue it, seek it out, and want it, finally, to the point of conviction.
4. The fourth level of the affective domain is the *organization* of values into a system of beliefs, determining interrelationships among them, and establishing a hierarchy of values within the system.
5. Finally, individuals become characterized by and understand themselves in terms of their *value system*. Individuals act consistently in accordance with the values they have internalized and integrate beliefs, ideas, and attitudes into a total philosophy or world view. It is at this level that problem solving, for example, is approached on the basis of a total, self-consistent system.

Bloom's taxonomy was devised for educational purposes, but it has been used for a general understanding of the affective domain in human behavior. The fundamental notions of receiving, responding, and valuing are universal. Second language learners need to be receptive both to those with whom they are communicating and to the language itself, responsive to persons and to the context of communication, and willing and able to place a certain value on the communicative act of interpersonal exchange.

Lest you feel at this point that the affective domain as described by Bloom is a bit too far removed from the essence of language, it is appropriate to recall that language is inextricably woven into the fabric of virtually every aspect of human behavior. Language is so pervasive a phenomenon in our humanity that it cannot be separated from the larger whole—from the whole persons that live and breathe and think and feel. Kenneth Pike (1967, p. 26) said that language is behavior, that is, a phase of human activity which must not be treated in essence as structurally divorced from the structure of nonverbal human activity. The activity of man constitutes a structural whole in such a way that it cannot be subdivided into neat "parts" or "levels" or "compartments" with language in a behavioral compartment insulated in character, content, and organization from other behavior.

AFFECTIVE FACTORS IN SECOND LANGUAGE ACQUISITION

Understanding how human beings feel and respond and believe and value is an exceedingly important aspect of a theory of second language acquisition. We turn now to a consideration of specific affective factors in human behavior and how they relate to second language acquisition.

Self-Esteem

Self-esteem is probably the most pervasive aspect of any human behavior. It could easily be claimed that no successful cognitive or affective activity can be carried out without some degree of self-esteem, self-confidence, knowledge of yourself, and self-efficacy—belief in your own capabilities to successfully perform that activity. Malinowski (1923) noted that all human beings have a need for phatic communion—defining oneself and finding acceptance in expressing that self in relation to valued others. Personality development universally involves the growth of a person's concept of self, acceptance of self, and reflection of self as seen in the interaction between self and others.

The following is a well-accepted definition of self esteem (Coopersmith, 1967, pp. 4-5):

By self-esteem, we refer to the evaluation which individuals make and customarily maintain with regard to themselves; it expresses an attitude of approval or disapproval, and indicates the extent to which individuals believe themselves to be capable, significant, successful and worthy. In short, self-esteem is a personal judgment of worthiness that is expressed in the attitudes that individuals hold toward themselves. It is a subjective experience which the individual conveys to others by verbal reports and other overt expressive behavior.

and feelings that threaten to dismantle the organization of values and beliefs on which appraisals of self-esteem have been founded. The process of building defenses continues into adulthood. Some persons – those with higher self-esteem and ego strength – are

CLASSROOM CONNECTIONS

Research Findings: The research spearheaded by Peter MacIntyre and his colleagues suggests that saying a learner has a high WTC must be distinguished from simply describing a learner as extroverted, confident, or risk-taking. One of the key contributors to building WTC, as reported in MacIntyre et al. (2001) seems to be social support.

Teaching Implications: Current language teaching methodology strongly supports such communicative techniques such as group and pair work and related interactive activities, all of which can potentially provide social support. What has been the extent of social support in your language classroom? What techniques has your teacher used—or have you used, if you have taught—to promote social support? Have they led to students' greater willingness to communicate?

more able to withstand threats to their existence, and thus their defenses are Lower. Those with weaker self-esteem maintain walls of inhibition to protect what is self-perceived to be a weak or fragile ego, or a lack of self-confidence in a situation or task.

The human ego encompasses what Alexander Guiora et al. (1972a) and Ehrman (1996) referred to as language ego or the very personal, egoistic nature of second language acquisition. Meaningful language acquisition involves some degree of identity conflict as language learners take on a new identity with their newly acquired competence. An adaptive language ego enables learners to lower the inhibitions that may impede success.

In a classic study, ostensibly designed to measure the effect of *empathy* on second language acquisition, but in actuality one that highlighted inhibition, Guiora et al. (1972a) designed an experiment using small quantities of alcohol to induce temporary states of less-than-normal inhibition in an experimental group of subjects. The performance on a pronunciation test in Thai of subjects given the alcohol was significantly better than the performance of a control group. Guiora and colleagues concluded that a direct relationship existed between empathy (a component of language ego, closely linked, as noted above, to inhibition) and pronunciation ability in a second language.

But there were some serious problems in the researchers' conclusions—shortcomings noted years later in a critique by Thomas Scovel, one of the original five researchers in the 1972 Guiora study (Guiora et al., 1972a). Scovel (2001 .pp. 133-138) noted, among other things, some questions about the presumably controlled

conditions of the study and its experimental design. Also, it has already been noted that empathy and inhibition are closely linked, which raises questions about whether it was indeed empathy or inhibition that was being measured. Further, we know that alcohol may lower inhibitions, but alcohol also tends to affect muscular tension, and while "mind" and "body" in this instance may not be clearly separable, the physical effect of the alcohol may have been a more important factor than the mental effect in accounting for the superior pronunciation performance of the subjects given alcohol. Furthermore, pronunciation may be a rather poor indicator of overall language competence. Nevertheless, the Guiora research team provided an important hypothesis that has tremendous intuitive—if not experimental—support.

In another experiment (Guiora et al., 1980), Guiora and his associates studied the effect of Valium on pronunciation of a second language. Inspired by a study (Schumann et al., 1978) that showed that hypnotized subjects performed well on pronunciation tests, Guiora and colleagues hypothesized that various dosages of a chemical relaxant would have a similar effect on subjects' pronunciation performance. It is unfortunate that the results were nonsignificant, but it is interesting that the tester made a significant difference. In other words, the person doing the testing made a bigger difference on scores than did the dosage of Valium. I wonder if this result says something about the importance of teachers!

Some have facetiously suggested that the moral to Guiora's experiments is that we should provide cocktails—or prescribe tranquilizers—for foreign language classes! While students might be delighted by such a proposal, the experiments have highlighted a most interesting possibility: that the inhibitions, the defenses, that we place between ourselves and others are important factors contributing to second language success. Ehrman (1999, 1993) provided further support for the importance of language ego in studies of learners with thin (permeable) and thick (not as permeable) ego boundaries. While neither extreme has been found to have necessarily beneficial or deleterious effects on success, Ehrman has suggested that the openness, vulnerability, and ambiguity tolerance of those with thin ego boundaries create different pathways to success from those with hard-driving, systematic, perfectionistic, thick ego boundaries.

Such findings, coupled with Guiora's earlier work, have given rise to a number of steps that have been taken in practices to create techniques that reduce inhibition in the foreign language classroom. Language teaching approaches in the last several decades have been characterized by the creation of contexts in which students are encouraged to take risks, to orally try out hypotheses, and in so doing to break down some of the barriers that often make learners reluctant to try out their new language.

Anyone who has learned a foreign language is acutely aware that second language learning actually necessitates the making of mistakes. We test out hypotheses about language by trial and many errors; children learning their first language and adults learning a second can really make progress only by learning from their mistakes. If we never ventured to speak a sentence until we were absolutely certain of its total correctness, we would likely never communicate productively at all. But

in the form of a pyramid with the physical needs at the bottom, or foundation, of the pyramid, and self-actualization—the culmination of human attainment—at the top.

A more recent offshoot of Maslow's view of motivation is seen in Csikszentmihalyi's (1990; Egbert, 2003; Csikszentmihalyi & Csikszentmihalyi, 1988) investigations of the effect of "flow" on ultimate attainment. **Flow theory**, as it has come to be called, highlights the importance of "an experiential state characterized by intense focus and involvement that leads to improved performance on a task. . . flow theory claims that as a result of the intrinsically rewarding experience associated with flow, people push themselves to higher levels of performance" (Egbert, 2003, p. 499). Others have characterized flow as "optimal experience," being "in the groove," when "everything gelled." Flow research has found that such optimal performance is a result of such factors as a perceived balance of skills and challenge, ability to focus intently on clear task goals, and positive feedback that one is succeeding at a task. All of this research supports the ultimate importance of intrinsic involvement of learners in attaining one's proficiency goals in a foreign language.

Jerome Bruner (1966b), praising the "autonomy of self-reward," claimed that one of the most effective ways to help both children and adults think and learn is to free them from the control of rewards and punishments. One of the principal weaknesses of extrinsically driven behavior is its addictive nature. Once captivated, as it were, by the lure of an immediate prize or praise, our dependency on those tangible rewards increases, even to the point that their withdrawal can then extinguish the desire to learn. Ramage (1990), for example, found that foreign language high school students who were interested in continuing their study beyond the college entrance requirement were positively and intrinsically motivated to succeed. In contrast, those who were in the classes only to fulfill entrance requirements exhibited low motivation and weaker performance.

It is important to distinguish the intrinsic-extrinsic construct from Gardner's integrative-instrumental orientation. While many instances of intrinsic motivation may indeed turn out to be integrative, some may not. For example, one could, for highly developed intrinsic purposes, wish to learn a second language in order to advance in a career or to succeed in an academic program. Likewise, one could develop a positive affect toward the speakers of a second language for extrinsic reasons, such as parental reinforcement or a teacher's encouragement. Kathleen Bailey (1986) illustrated the relationship between the two dichotomies with the diagram in Table 6.2.

The intrinsic-extrinsic continuum in motivation is applicable to foreign language classrooms around the world (for example, Warden & Lin, 2000; Wu, 2003; Csizer & Dornyei, 2005). Regardless of the cultural beliefs and attitudes of learners and teachers, intrinsic and extrinsic factors can be easily identified. Dornyei and Csizer (1998), for example, in a survey of Hungarian teachers of English, proposed a taxonomy of factors by which teachers could motivate their learners. They cited factors such as developing a relationship with learners, building learners' self-confidence and autonomy, personalizing the learning process, and increasing learners' goal-orientation. These all fall into the intrinsic side of motivation. Our ultimate quest in this language teaching business is, of course, to see to it that our pedagogical tools can harness the power of intrinsically motivated learners who are striving for excellence, autonomy, and self-actualization.

Research in the near future on the neurobiology of affect is likely to enlighten our current understanding of the physiology of the brain and its effect on human behavior. Even more specifically, we can look forward to verifying what we now hypothesize to be important connections between affect and second language acquisition.

PERSONALITY TYPES AND LANGUAGE ACQUISITION

Within the affective domain, another subarea of interest over the past half-century or so has been the measurement of personality characteristics and the hypothesized relationship of such traits to success in various kinds of endeavors. Among dozens of tests and questionnaires designed to tell you more about yourself is the widely-popular Myers-Briggs Type Indicator (Myers, **1962**), commonly referred to as the "Myers-Briggs test." Borrowing from some of Carl Jung's (**1923**) "types," the Myers-Briggs team tested four dichotomous styles of functioning in the Myers-Briggs test: (1) introversion vs. extroversion, (2) sensing vs. intuition, (3) thinking vs. feeling, and (4) judging vs. perceiving. Table **6.3** defines the four categories (Keirsey & Bates, **1984**, pp. **25-26**) in simple words and self-explanatory phrases.

With four two-dimensional categories, **16** personality profiles, or combinations, are possible. Disciples of the Myers-Briggs research (Keirsey & Bates, 1984, for example) described the implications of being an "ENEJ" or an "ISTP," for example. Managers may be aided in their understanding of employees by understanding their character type. ISTJs, for example, make better behind-the-scenes workers, while ENFPs might be better at dealing with the public. Lawrence (1984) stressed the importance of a teacher's understanding the individual differences of learners in a classroom: Es will excel in group work; Is will prefer individual work; SJs are "linear learners with a strong need for structure" (p. 52); NTs are good at paper-and-pencil tests. The generalizations were many.

What might all this have to do with the second language learner? In the last decade of the twentieth century, a number of studies (Carrell, Prince, & Astika, 1996; Ehrman & Oxford, **1995, 1990, 1989**; Ehrman, **1990, 1989**; Moody, 1988; Oxford & Ehrman, 1988) sought to discover a link between Myers-Briggs types and second language learning. Notable among these is Ehrman and Oxford's (**1990**) study of 79 foreign language learners at the Foreign Service Institute. They found that their subjects exhibited some differences in strategy use, depending on their Myers-Briggs type. For example, extroverts (E) used social strategies consistently and easily, while introverts (I) rejected them, a finding that was replicated in Wakamoto's (**2000**) more recent study. Sensing (S) students displayed a strong liking for memory strategies; intuitives

Table 6.3. Myers-Briggs character types

Extroversion (E)	Introversion(I)
Sociability	Territoriality
Interaction	Concentration
External	Internal
Breadth	Depth
Extensive	Intensive
Multiplicity of relationships	limited relationships.
Expenditure of energies	Conservation of energies
Interest in external events	Interest in internal reaction
Sensing (S)	Intuition (N)
Experience	Hunches
Past	Future
Realistic	Speculative
Perspiration	Inspiration
Actual	Possible
Down to earth	Head in clouds
Utility	Fantasy
Fact	Fiction
Practicality	Ingenuity
Sensible	Imaginative
Thinking (T)	Feeling (F)
Objective	Subjective
Principles	Values
Policy	Social values
Laws	Extenuating circumstances
Criterion	Intimacy
Firmness	Persuasion
Impersonal	Personal
Justice	Humane
Categories	Harmony
Standards	Good or bad
Critique	Appreciative
Analysis	Sympathy
Allocation	Devotion
Judging (J)	Perceiving (P)
Settled	Pending
Decided	Gather more data
Fixed	Flexible
Plan ahead	Adapt as you go
Run one's life	Let life happen
Closure	Open options
Decision-making	Treasure hunting
Planned	Open ended

(continued on next page)

1. Does the activity appeal to the genuine interests of your students? Is it relevant to their lives?
2. Do you present the activity in a positive, enthusiastic manner?
3. Are students clearly aware of the purpose of the activity?
4. Do students have some choice in (a) choosing some aspect of the activity and/or (b) determining how they go about fulfilling the goals of the activity?
5. Does the activity encourage students to discover for themselves certain principles or rules (rather than simply being "told")?
6. Does it encourage students in some way to develop or use effective strategies of learning and communication?
7. Does it contribute—at least to some extent—to students' ultimate autonomy and independence (from you)?
8. Does it foster cooperative negotiation with other students in the class? Is it a truly interactive activity?
9. Does the activity present a "reasonable challenge"?
10. Do students receive sufficient feedback on their performance (from each other or from you)?

- 5- (C) Look again at the brief discussion of Flow Theory, and from your own language learning experiences provide examples of being "in the groove" or "in the swing of things."
6. CD One person in the class might want to consult John Schumann's (1999, 1998, 1997; Schumann & Wood, 2004) work on the neurobiology of affect and give a report to the rest of the class that spells out some of the findings in more detail. Of special interest might be the importance of the amygdala in determining our affective response to a stimulus.
7. (T) Review the personality characteristics listed in Table 6.3- Make a checkmark by either the left- or right-column descriptor; total up your checks for each of the four categories and see if you can come up with a four-letter "type" that describes you. For example, you might be an "NFJ" or an "INTJ" or any of 16 possible types. If you have a tie in any of the categories, allow your own intuition to determine which side of the fence you are on most of the time.
8. (G) Make sure you do item 7 above. Then, in groups, share your personality type. Is your own four-letter combination a good description of who you are? Share this with the group and give others in the group examples of how your type manifests itself in problem solving, interpersonal relations, the workplace, etc. Offer examples of how your type explains how you might typically behave in a foreign language class.
- 9- (D) Several students could be assigned to find tests of self-esteem, empathy, anxiety, extroversion, and the Myers-Briggs test, and bring copies of these self-rating tests to class for others to examine or take themselves. Follow-up discussion should include an intuitive evaluation of the validity of such tests.
10. (G) Think of some techniques or activities that you have experienced in learning a foreign language and then, as a group, pick one or two and analyze

LANGUAGE LEARNING EXPERIENCE: JOURNAL ENTRY 6

Note: See pages 21 and 22 of Chapter 1 for general guidelines for writing a journal on a previous or concurrent language learning experience.

- Consider each of the following affective factors: self-esteem, self-efficacy, willingness to communicate, inhibition, risk taking, anxiety, empathy, and extroversion, intuitively assess your own level (from high to low on the first seven; either extroversion or introversion on the last) on each factor. Then, in your journal, write your conclusions in a chart, and follow up with comments about how each factor manifests itself in you in your foreign language class (past or present).
- Look at the section on inhibition and write about the extent to which you have felt or might feel a sense of a second language ego—or second identity—developing within you as you use a foreign language. What are the negative and positive effects of that new language ego?
- How can you change affective characteristics that are working against you? For example, if you have low task self-esteem when doing certain kinds of exercises, how might you change your general affective style so that you could be more successful? Or do you see strengths in your tendencies that you should maintain? Explain.

- Think about any present or past foreign language learning experiences. Pick one of them and assess the extent to which you feel (felt! intrinsically motivated or extrinsically motivated to learn. What specific factors make (made) you feel that way" Is there anything you could do (have done) to change that motivational intensity—to get yourself more into the "flow" of learning-'
- * Check your own Myers-Briggs type by doing item 7 of Topics and Questions, on page 183. In your journal, discuss the relevance of your personality type to typical language classroom activities. Evaluate the extent to which your characteristics are in your favor or not, and what you think you can do to lessen the liabilities.
- In your language learning experiences, past or present, to what extent has your teacher promoted intrinsic motivation through activities or techniques, or through the teacher's attitude toward students?

PART III

LINGUISTIC FACTORS

CHAPTER 7

SOCIOCULTURAL FACTORS

CHAPTER 6, with its focus on the affective domain of second language acquisition, looked at how the personal variables within oneself and the reflection of that self to other people affect our communicative interaction. This chapter touches on another affective aspect of the communicative process: the intersection of culture and affect. How do learners overcome the personal and transactional barriers presented by two cultures in contact? What is the relationship of culture learning to second language learning?

CULTURE: DEFINITIONS AND THEORIES

Culture is a way of life. It is the context within which we exist, think, feel, and relate to others. It is the "glue" that binds a group of people together. Several centuries ago, John Donne (1624) had this to say about culture: "No man is an island, entire of itself; every man is a piece of the continent, a part of the man;... any man's death diminishes me, because I am involved in mankind; and therefore never send to know for whom the bell tolls; it tolls for thee."

Culture is our continent, our collective identity. Larson and Smalley (1972, p. 39) described culture as a "blueprint" that "guides the behavior of people in a community and is incubated in family life. It governs our behavior in groups, makes us sensitive to matters of status, and helps us know what others expect of us and what will happen if we do not live up to their expectations. Culture helps us to know how far we can go as individuals and what our responsibility is to the group."

Culture might also be defined as the ideas, customs, skills, arts, and tools that characterize a given group of people in a given period of time. But culture is more than the sum of its parts. According to Matsumoto (2000, p. 24):

Culture is a dynamic system of rules, explicit and implicit, established by groups in order to ensure their survival, involving attitudes, values, beliefs, norms, and behaviors, shared by a group but harbored differently by each specific unit within the group, communicated across generations, relatively stable but with the potential to change across time.

like empathy, self-esteem, and so many other psychological constructs, defies definition even though one can intuitively grasp the sense of what is meant.

William Acton (1979) proposed a solution to the dilemma. Instead of trying to measure *actual* social distance, he devised a measure of perceived social distance. His contention was that the actual distance between cultures is not particularly relevant since it is what learners perceive that forms their own reality. We have already noted that human beings perceive the cultural environment through the filters and screens of their own worldview and then act upon that perception, however biased it may be. According to Acton, when learners encounter a new culture, their acculturation process is a factor of how they perceive their own culture in relation to the culture of the target language, and vice versa. For example, objectively there may be a relatively large distance between Americans and Saudi Arabians, but an American learning Arabic in Saudi Arabia might for a number of reasons perceive little distance and in turn act on that perception.

By asking learners to respond to three dimensions of distance, Acton devised a measure of perceived social distance—the Professed Difference in Attitude Questionnaire (PDAQ)—which characterized the "good" or successful language learner (as measured by standard proficiency tests) with remarkable accuracy. Basically the PDAQ asked learners to quantify what they perceived to be the differences in attitude toward various concepts ("the automobile," "divorce," "socialism," "policemen," for example) on three dimensions: (1) distance (or difference) between themselves and their countrymen in general; (2) distance between themselves and members of the target culture in general; and (3) distance between their countrymen and members of the target culture. By using a semantic differential technique, three distance scores were computed for each dimension.

Acton found that in the case of learners of English who had been in the United States for four months, there is an *optimal* perceived social distance ratio (among the three scores) that typifies the "good" language learner. If learners perceived themselves as either too close to or too distant from either the target culture or the native culture, they fell into the category of "bad" language learners as measured by standard proficiency tests. The implication is that successful language learners see themselves as maintaining some distance between themselves and both cultures. That Acton's PDAQ did not predict success in language is no surprise since we know of no adequate instrument to predict language success or to assess language aptitude. But the PDAQ did describe empirically, in quantifiable terms, a relationship between social distance and second language acquisition.

Acton's theory of optimal perceived social distance supported Lambert's (1967) contention that mastery of the foreign language takes place hand in hand with feelings of anomie or homelessness, where learners have moved away from their native culture but are still not completely assimilated into or adjusted to the target culture. More important, Acton's model led us closer to an understanding of

culture shock and the relationship of acculturation to language learning by supplying an important piece of a puzzle. If we combine Acton's research with Lambert's, an interesting hypothesis emerges – namely, that mastery or skillful fluency in a second language (within the second culture) occurs somewhere at the beginning of the third – recovery – stage of acculturation. The implication of such a hypothesis is that mastery might not effectively occur before that stage or, even more likely, that learners might never be successful in their mastery of the language if they have proceeded beyond early Stage 3 without accomplishing that linguistic mastery. Stage 3 may provide not only the optimal distance but the optimal cognitive and affective tension to produce the necessary pressure to acquire the language, pressure that is neither too overwhelming (such as the culture shock typical of Stage 2) nor too weak (which would be found in Stage 4, adaptation/assimilation). Language mastery at Stage 3, in turn, would appear to be an instrument for progressing psychologically through Stage 3 and finally into Stage 4.

According to this optimal distance model (Brown, 1980) of second language acquisition, an adult who fails to master a second language in a second culture may for a host of reasons have failed to synchronize linguistic and cultural development. Adults who have achieved nonlinguistic means of coping in the foreign culture will pass through Stage 3 and into Stage 4 with an undue number of fossilized forms of language (see Chapter 8 for a discussion of fossilization), never achieving mastery. They have no reason to achieve mastery since they have learned to cope with sophisticated knowledge of the language. They may have acquired a sufficient number of functions of a second language without acquiring the correct forms. What is suggested in this optimal distance model might well be seen as a culturally based critical-period hypothesis, that is, a critical period that is independent of the age of the learner. While the optimal distance model applies more appropriately to adult learners, it could pertain to children, although less critically so. Because they have not built up years and years of a culture-bound world view (or view of themselves), children have fewer perceptive filters to readjust and therefore move through the stages of acculturation more quickly. They nevertheless move through the same stages, and it is plausible to hypothesize that their recovery stages are also crucial periods of acquisition.

Some research evidence has been gathered in support of the optimal distance construct. In a study of returning Peace Corps volunteers who had remained in their assigned countries for two or more years, Day (1982) garnered some observational evidence of the coinciding of critical leaps in language fluency and cultural anomie. And Svanes (1987, 1988) found that university foreign students studying in Norway appeared to achieve higher language proficiency if they had "a balanced and critical attitude to the host people" (1988, p. 368) as opposed to uncritical admiration for all aspects of the target culture. The informal testimony of many teachers of ESL in the United States also confirms the plausibility of a motivational tension created by the need to "move along" in the sometimes long and frustrating process of adaptation to a new homeland. Teachers in similar contexts could benefit from a careful assessment of the current cultural stages of learners with due attention to possible optimal periods for language mastery.

TEACHING INTERCULTURAL COMPETENCE

While most learners can indeed find positive benefits in cross-cultural living or learning experiences, a number of people experience psychological blocks and other inhibiting effects of the second culture. Stevick (1976b) cautioned that learners can feel alienation in the process of learning a second language, alienation from people in their home culture, the target culture, and from themselves. In teaching an "alien" language, we need to be sensitive to the fragility of students by using techniques that promote cultural understanding.

A number of recent research studies have shown the positive effects of incorporating cultural awareness in language classrooms (Byram & Feng, 2005). An excellent set of practical activities, all grounded in research on cultural awareness, is provided in DeCapua and Wintergersts (.2004) reference book for teachers. Savignon and Sysoyev (2002) promoted sociocultural competence in their learners of English in Russia by introducing sociocultural strategies such as initiating contact, anticipating cultural misunderstandings, and using diplomacy in discussions. Wright (2000) found that teaching learners of German as a foreign language, using process-oriented tasks promoted cross-cultural adaptability. Abrams (2002) successfully used Internet-based culture portfolios to promote cultural awareness and to defuse cultural stereotypes. Interviews of native speakers of the target language helped learners in Bateman's (2002) study to develop more positive attitudes toward the target culture. Choi (2003) used drama as a "gateway" to intercultural awareness and understanding for her Korean students of English as a second language.

The above studies complement earlier work along the same lines. Teachers who followed an experiential or process model (Robinson-Stuart & Nocon, 1996) of culture learning in the classroom were able to help students turn such an experience into one of increased cultural- and self-awareness. Donahue and Parsons (1982) examined the use of role play in ESL classrooms as a means of helping students to overcome cultural "fatigue"; role play promotes the process of cross-cultural dialog while providing opportunities for oral communication. Numerous other materials and techniques—readings, films, simulation games, culture assimilators, "culture capsules," and "culturalgrams"—are available to language teachers to assist them in the process of acculturation in the classroom (Fantini, 1997; Ramirez, 1995; Levine et al., 1987; McGroarty & Galvan, 1985; Kohls, 1984).

Perhaps the most productive model of the combination of second language and second culture learning is found among students who learn a second language in a country where that language is spoken natively. In many countries, thousands of foreign students are enrolled in institutions of higher education and must study the language of the country in order to pursue their academic objectives. Or one might simply consider the multitude of immigrants who enter the educational stream of

their new country after having received their early schooling in their previous country. They bring with them the cultural mores and patterns of "good" behavior learned in their home culture, and tend to apply those expectations to their new

situation. What is the nature of those students' expectations of behavior in their new educational system?

Consider Kenji, a university student from Japan who is studying at a pre-university language institute in the United States. During his previous 12 years of schooling, he was taught some very specific behaviors. He was taught to give the utmost "respect" to his teacher, which means a number of things: never to contradict the teacher, never to speak in class unless spoken to – always let the teacher initiate communication; let the teacher's wisdom be "poured into" him; never call a teacher by a first name; respect older teachers even more than younger teachers. But in his new U.S. language school, his youngish teachers are friendly and encourage a first-name basis; they ask students to participate in group work, they try to get students to come up with answers to problems, rather than just giving the answer, and so on. Kenji is confused. Why?

Some means of conceptualizing such mismatches in expectations were outlined in a thought-provoking article by Geert Hofstede (1986), who used four different conceptual categories to study the cultural norms of fifty different countries. Each category was described as follows:

1. Individualism as a characteristic of a culture apposes *collectivism*, (the word is used here in an anthropological, not a political, sense). Individualist cultures assume that any person looks primarily after his or her own interest and the interest of his or her immediate family (husband, wife, and children). Collectivist cultures assume that any person through birth and possible later events belongs to one or more tight "in-groups," from which he or she cannot detach him or herself. The "in-group" (whether extended family, clan, or organization) protects the interest of its members, but in turn expects their permanent loyalty. A collectivist society is tightly integrated; an individualist society is loosely integrated.
2. Power distance as a characteristic of a culture defines the extent to which the less powerful persons in a society accept inequality in power and consider it as normal. Inequality exists within any culture, but the degree of it that is tolerated varies between one culture and another. "All societies are unequal, but some are more unequal than others" (Hofstede, 1986, p. 136).
3. Uncertainty avoidance as a characteristic of a culture defines the extent to which people within a culture are made nervous by situations they perceive as unstructured, unclear, or unpredictable, situations which they therefore try to avoid by maintaining strict codes of behavior and a belief in absolute truths. Cultures with a strong uncertainty avoidance are active, aggressive, emotional, compulsive, security seeking, and intolerant; cultures with a weak uncertainty avoidance are contemplative, less aggressive, unemotional, relaxed, accepting of personal risks, and relatively tolerant.
4. Masculinity as a characteristic of a culture opposes *femininity*. The two differ in the social roles associated with the biological fact of the existence of two sexes, and in particular in the social roles attributed to men. The cultures

English art now considered legitimate and acceptable, but also that teachers who have actually gone through the process of learning English possess distinct advantages over native speakers.

As we move into a new paradigm in which the concepts of native and normative "speaker" become less relevant, it is perhaps more appropriate to think in terms of the proficiency level of a *user* of a language. Speaking is one of four skills and may not deserve in all contexts to be elevated to the sole criterion for proficiency. So, with Kachru (2005), McKay (2002), and others, the profession is better served by considering a person's communicative proficiency across the four skills. Teachers of any language, regardless of their own variety of English, can then be judged accordingly, and in turn, their pedagogical training and experience can occupy focal attention.

ESL and EFL

As the above discussion shows, the spread of EFL has indeed muddied the formerly clear waters that separated what we still refer to as **English as a second language** (ESL) and **English as a foreign language** (EFL). Learning ESL—English within a culture where English is spoken natively—may be clearly defined in the case of, say, an Arabic speaker learning English in the United States or the United Kingdom, but not as easily identified where English is already an accepted and widely used language for education, government, or business within the country (for example, learning English in the Philippines or India). According to Nayar (1997), we need to add yet another ESL context, English in Scandinavia, where English has no official status but occupies such a high profile that virtually every educated person can communicate competently with native speakers of English.

Learning EFL, that is, English in one's native culture with few immediate opportunities to use the language within the environment of that culture (for example, a Japanese learning English in Japan), may at first also appear to be easy to define. Two global developments, however, mitigate the clarity of identifying a simple "EFL" context: (1) The current trend toward immigrant communities establishing themselves within various countries (e.g., Spanish or Chinese or Russian communities in a large city in the United States) provides ready access to users of so-called foreign languages. (2) In the case of English, the penetration of English-based media (especially television, the Internet, and the motion picture industry) provides further ready access to English even in somewhat isolated settings.

The problem with the ESL/EFL terminology, as Nayar (1997, p. 22) pointed out, is that it "seems to have created a world view that being a native speaker of English will somehow bestow on people not only unquestionable competence in the use and teaching of the language but also expertise in telling others how English ought to be taught." As we saw in earlier chapters and in the preceding discussion, native-speaker models do not necessarily exemplify the idealized competence that was once claimed for them. The multiplicity of contexts for the use of English worldwide demands a careful look at the variables of each situation before making the blanket generalization that one of two possible models, ESL or EFL, applies. By specifying

seduce the public by promoting myths and misunderstandings about language acquisition and multilingualism (Scovel, 1999). Once again, those who end up suffering from such moves toward "English only" are the already disenfranchised minority cultures.

LANGUAGE, THOUGHT, AND CULTURE

No discussion about cultural variables in second language acquisition is complete without some treatment of the relationship between language and thought. We saw in the case of first language acquisition that cognitive development and linguistic development go hand in hand, each interacting with and shaping the other. It is commonly observed that the manner in which an idea or "fact" is stated affects the way we conceptualize the idea. On the other hand, many of our ideas, issues, inventions, and discoveries create the need for new words. Can we tease this interaction apart?

Framing Our Conceptual Universe

Words shape our lives. The advertising world is a prime example of the use of language to shape, persuade, and dissuade. "Weasel words" tend to glorify very ordinary products into those that are "unsurpassed," "ultimate," "supercharged," and "the right choice." In the case of food that has been sapped of most of its nutrients by the manufacturing process, we are told that these products are now "enriched" and "fortified." A foreigner in the United States once remarked that in the United States there are no "small" eggs, only "medium," Targe, "extra targe," and "jumbo."

Euphemisms abound in American culture where certain thoughts are taboo or certain words connote something less than desirable. We are persuaded by industry, for example, that "receiving waters" are the lakes or rivers into which industrial wastes are dumped and that "assimilative capacity" refers to how much of the waste can be dumped into the river before it starts to show Gartsage collectors are "sanitary

activities, categorized into different types and coded for appropriate levels of proficiency.

LANGUAGE LEARNING EXPERIENCE: JOURNAL ENTRY 7

Note; See pages 21 and 22 of Chapter 1 for general guidelines for writing a journal on a previous or concurrent language learning experience.

- In your journal, describe any cross-cultural living experiences you have had, even just a brief visit in another country. Describe any feelings of euphoria, uneasiness or stress, culture shock, and a sense of recovery if you felt such. How did those feelings mesh with any language learning processes?¹
- Think of one or two languages you're familiar with or you've tried to learn. How do you feel about the people of the culture of that language? Any mixed feelings?
- Look at item 4 of Topics and Questions on page 214 and write about an example of one or more of Hofstede's categories in your own current or past experiences in language classrooms.
- Do you personally think the spread of English in the colonial era had imperialistic overtones? How can you as an English teacher in this new millennium avoid such cultural imperialism?
- Make a list of words, phrases, or language rules in your foreign language that are good examples of the Whorfian Hypothesis. Take two or three of those and write about whether or not you think the language itself shapes the way-speakers of that language think or feel.
- In a foreign language you are taking (or have taken), how, if at all, has your teacher incorporated culture learning into the curriculum?

cution, repetition, hesitation, avoidance, and guessing, as well as shifts in register and style" (pp. 40-41).

Strategic competence occupies a special place in an understanding of communication. Actually, definitions of strategic competence that are limited to the notion of "compensatory strategies" fall short of encompassing the full spectrum of the construct. In a follow-up to the previous (Canale & Swain, 1980) article, Swain (1984, p. 189) amended the earlier notion of strategic competence to include "communication strategies that may be called into action either to enhance the effectiveness of communication or to compensate for breakdowns." Similarly, Yule and Tarone (1990, p. 181) referred to strategic competence as "an ability to select an effective means of performing a communicative act that enables the listener/reader to identify the intended referent." So all communication strategies—such as those discussed in Chapter 5—may be thought of as arising out of a person's strategic competence. In fact, strategic competence is the way we manipulate language in order to meet communicative goals. An eloquent speaker possesses and uses a sophisticated strategic competence. A salesperson utilizes certain strategies of communication to make a product seem irresistible. A friend persuades you to do something extraordinary because he or she has mustered communicative strategies for the occasion.

Canale and Swain's (1980) model of CC has undergone some other modifications over the years. These newer views are perhaps best captured in Lyle Bachman's

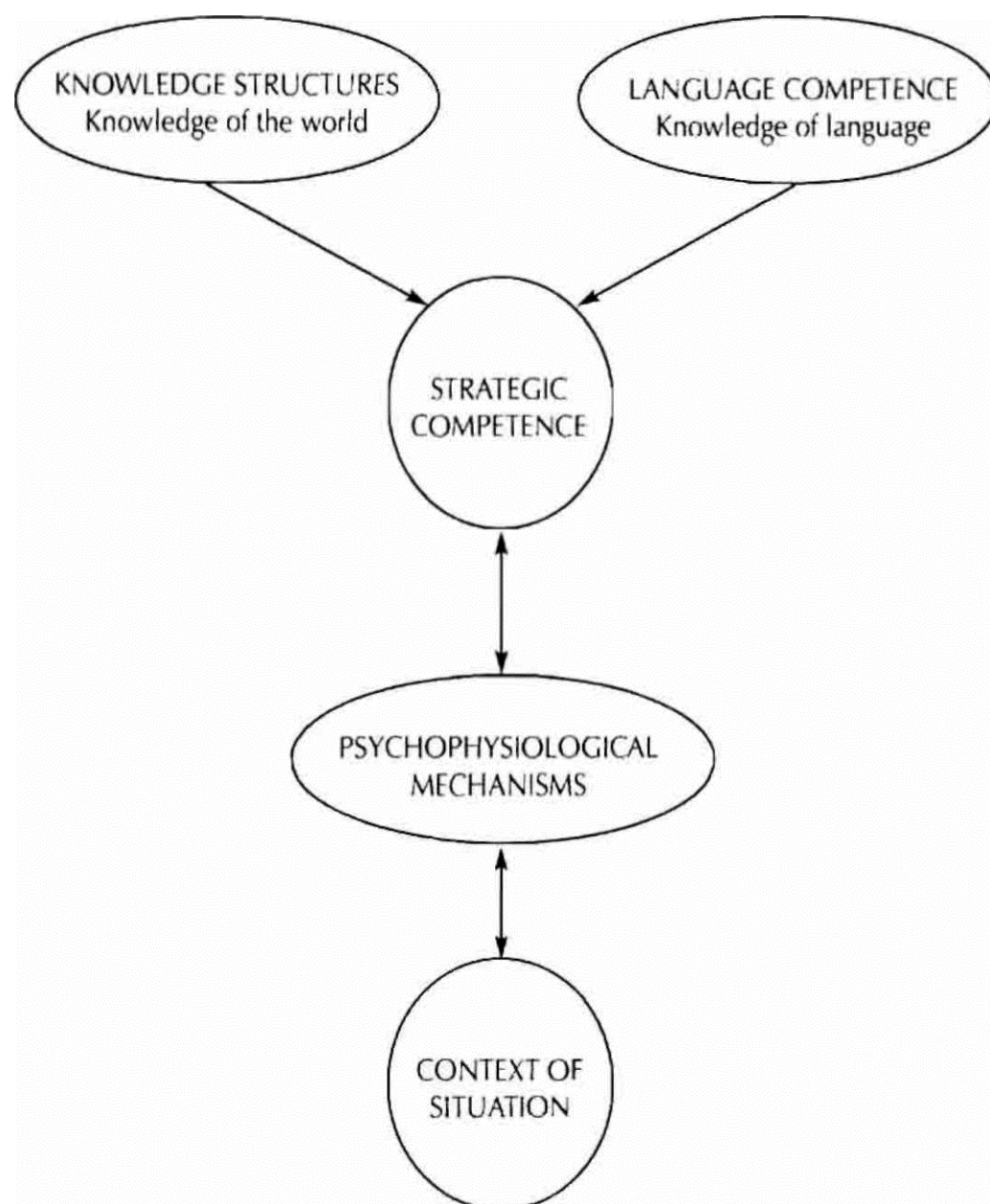


Figure 8.2. Components of communicative language ability in communicative language use (Bachman, 1990, p. 85)

LANGUAGE FUNCTIONS

In Bachman's model of CC, illocutionary competence consists of the ability to manipulate the nine functions of language, a component that Canale and Swain subsume under discourse and sociolinguistic competence. Functions are essentially the purposes that we accomplish with language, e.g., stating, requesting, responding, greeting, parting, etc. Functions cannot be accomplished, of course, without the forms of language: morphemes, words, grammar rules, discourse rules, and other organizational competencies. While forms are the outward manifestation of language, functions are the realization of those forms.

Functions are sometimes directly related to forms. "How much does that cost?" is usually a form functioning as a question, and "He bought a car" functions as a statement. But linguistic forms are not always unambiguous in their function. "I can't find my umbrella," uttered in a high-pitched voice by a frustrated adult who is late for work on a rainy day may be a frantic request for all in the household to join in a search. A child who says "I want some ice cream" is rarely stating a simple fact or observation

genre, disciplines vary in their views of acceptable writing. Writing contexts (who is writing, to whom, and for what purpose) and specific conventions within subgroups of genres (e.g., a scientific laboratory report; a personal narrative essay) may prove to be far more important for learners to attend to than a possible contrasting native language convention. Another difficulty lies in the assumption that the second language writer's task is to follow certain conventional models, as opposed to engaging in a "socially grounded framework" (Hedgcock, 2005, p. 601) that more creatively encourages writers to develop their own voice as they simultaneously develop the land of empathy toward the specific intended audience.

PRAGMATICS

Implicit in the above discussions of language functions, discourse analysis, conversation analysis, corpus studies, and contrastive rhetoric is the importance of pragmatics in conveying and interpreting meaning. Pragmatic constraints on language comprehension and production may be loosely thought of as the effect of *context* on strings of linguistic events. Consider the following conversation;

[Phone rings, a 10-year-old child picks up the phone] StefanJe: HeUo.
 Voice: Hi, Stef, is your Mom there?
 StefanJe: Just a minute, [cups the phone and yells] Mom! Phone! **Mom:** {from upstairs} I'm in the tub!
 Stefanle: [returning to the phone] She can't talk now. Wanna leave a message?
 Voice: Uh, [pause\ I'll call back later. Bye.

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Pragmatic considerations allowed all three participants to interpret what would otherwise be ambiguous sentences. "Is your Mom tiere?" is not, in a telephone context, a Question that requires a yes or no answer. Stefanie's "Just a minute" confirmed to the caller that her mother was indeed home, and let the caller know that she would either (1) check to see if she was home and/or (2) get her to come to the phone. Then, Stefanie's "Mom! Phone!" was easily interpreted by her mother as "Someone is on the phone who wants to talk with you." Mom's response, otherwise a rather worthless bit of information, in fact informed Stefanie that she couldn't come to the phone, which was then conveyed to the caller. The caller didn't explicitly respond "no" to Stefanie's offer to take a message, but implicitly did so with "I'll call back later"

Sociopragmatics and Pragmalinguistics

Second language acquisition becomes an exceedingly difficult task when socio-pragmatic (the interface between pragmatics and social organization) and prag-malinguistic (the intersection of pragmatics and Linguistic forms) features are brought to bear. Kasper and Roever (2005), Kasper and Rose (2002), Bardovi-HarLig (1999a), Kasper (1998), LoCastro (1997), Turner (1996, 1995). Scollon and Scollon (1995). Kasper and Blum-Kulka (1993), Harlow (1990), and Holmes and Brown (1987) have all demonstrated the difficulty of such conventions because of subtle cross-cultural contrasts. Variations in politeness and formality are particularly touchy:

American: What an unusual necklace. It's beautiful! Samoan: Please take it. (Holmes & Brown, 1987, p. 526)

American teacher: Would you like to read?
 Russian student No, I would not. (Harlow, 1990, p. 328)

In both cases the nonnative English speakers misunderstood the illocutionary force (intended meaning) of the utterance within the contexts.

Grammatical knowledge, or in Bachman's terms, the organizational rules of a second language, are fundamental to learning the pragmatic linguistic features of a language (Bardovi-Harlig, 1999a). But grammar is almost simple when compared to the complexity of catching on to a seemingly never-ending list of pragmatic constraints. Pragmatic conventions from a learner's first language can transfer both positively and negatively. Address forms (how to address another person in conversation), for example, can prove to be problematic for English speakers learning a language like German (Belz & Kinginger, 2003), and other languages that distinguish between formal and informal forms of "you" (German: *Sie* and *du*). Apologizing, complimenting, thanking, face-saving conventions, and conversational cooperation strategies (Turner, 1995) often prove to be difficult for second language learners to acquire. Japanese learners of English may express gratitude by saying "I'm sorry," a direct transfer from *Sumimasen*, which in Japanese commonly conveys a sense of gratitude, especially to persons of higher status (Kasper, 1998, p. 194). Cooperation principles are especially difficult to master: the difference between "Rake the leaves" and "Don't you think you could rake the leaves?" (Turner, 1996, p. 1) is an example of how, in English, cooperation is sometimes given precedence over directness.

CLASSROOM CONNECTIONS

Research Findings: Pragmatics includes such contextual skills as using address forms, polite requests, persuading, and disagreeing, as Kasper and Roever (2005) show in their review of research.

Teaching Implications: One pragmatic element of language that is useful for classroom learners of a foreign language is how to disagree politely. Have you ever been taught forms such as, "I see your point, but . . ." and "I think I understand what you are saying, but have you considered ..."? What other phrases or sentences do we commonly use to politely disagree? How would you teach such classroom language?

Language and Gender

One of the major pragmatic factors affecting the acquisition of CC in virtually every language, and one that has received considerable attention recently, is the effect of one's sex on both production and reception of language. Differences between the way males and females speak have been noted for some time now (McKay, 2005; Davis & Skilton-Sylvester, 2004; Sundedand, 2000; Tannen, 1996, 1990; Holmes, 1991, 1989; Nilsen et al., 1977; Lakoff, 1975). Among American English speakers, girls have been found to produce more "standard" language than boys, a pattern that continues on through adulthood. Women appear to use language that expresses more uncertainty (hedges, tag questions, rising intonation on declaratives, etc.) than men, suggesting less confidence in what they say. Men have been reported to interrupt more than women, and to use stronger expletives, while the latter use more polite forms. Tannen (1996) and others have found that males place more value, in conversational interaction, on status and report talk, competing for the floor, while females value connection and rapport, fulfilling their role as more "cooperative and facilitative conversationalists, concerned for their partner's positive face needs" (Holmes, 1991, p. 210).

These studies of language and gender, which were conducted in English-speaking cultures, do not even begin to deal with some of the more overtly formal patterns for men's and women's talk in other languages. Among the Carib Indians in the lesser Antilles, for example, males and females must use entirely different gender markings for abstract nouns. In several languages males and females use different syntactic and phonological variants. In Japanese, women's and men's language is differentiated by formal (syntactic) variants, intonation patterns, and nonverbal expression. It is not uncommon for American men who learned Japanese from a female native-speaking Japanese teacher to inadvertently "say things like a woman" when, say, conducting business with Japanese men. Much to their embarrassment.

In English, another twist on the language and gender issue has been directed toward "sexist" language: language that either calls unnecessary attention to gender or is demeaning to one gender. Writers are cautioned to refrain from using what we used to call the "generic" *he* and instead to pluralize or to use *be* or *she*. What used to be *stewardesses*, *chairmen*, and *policemen* are now more commonly called *flight attendants*, *chairs*, and *police officers*. Words/phrases like *broad*s, *skirt chasers*, *the wife*, etc., are now marked as demeaning perpetuations of negative stereotypes of women. The list of sexist terms, phrases, and metaphors goes on and on. Fortunately, the research of linguists like Janet Holmes, Robin Lakoff, and Deborah Tannen has called the attention of the public to such sexism, and we are seeing signs of the decline of this sort of language.

Research on language and gender has historically seen some theoretical shifts (McKay, 2005; Davis & Skilton-Sylvester, 2004). Reacting to views of women's language as *deficient* or inferior to men's, Robin Lakoff's (1975) work established the notion that women's language was *different* from men's language. Then theoretical positions evolved to emphasize the relationship between language and power, especially power as viewed by men in society their social *domination* of women (Tannen, 1996, 1990, for example). Current research on language and gender tends to go beyond all three of the above theoretical positions to acknowledge the socially constructed nature of language in any context (Cameron & Kulick, 2003). Current constructivist positions generally prefer to view gender as one of many factors that enter into communication: "the speaker, the setting, the cultural context, and the interactions of ethnicity, class, gender, power, sexual orientation, and a wide array of other social phenomena" (Davis & Skilton-Sylvester, 2004, p. 386). For an excellent overview of issues in gender and language education, consult TESOL Quarterly's (2004) special-topic issue-All these factors in discourse and pragmatics are subtleties that a second language learner must contend with. They all form a significant, intricately interwoven tapestry in our sociopragmatic competence.

DISCOURSE STYLES

Another important issue in describing CC is the way we use language in different styles depending on the context of a communicative act in terms of subject matter, audience, occasion, shared experience, and purpose of communication. Styles are not social or regional dialects, but sets of conventions for selecting words, phrases, discourse, and nonverbal language in specified contexts. Styles vary considerably within a single language user's idiolect. When you converse informally with a friend, you use a style that is different from what you use in an interview for a job with a prospective employer. Native speakers, as they mature into adulthood, learn to adopt appropriate styles for widely different contexts. An important difference between a child's and an adult's fluency in a native language is the degree to which an adult is able to vary styles for different occasions and persons. Adult second language learners must acquire stylistic adaptability in order to be able to encode and decode the discourse around them correctly.

Martin Joos (1967) provided one of the most common classifications of speech styles using the criterion of formality, which tends to subsume subject matter, audience, and occasion. Joos described five levels of formality,

1. An **oratorical style** is used in public speaking before a large audience; wording is carefully planned in advance, intonation is somewhat exaggerated, and numerous rhetorical devices are appropriate.
2. A **deliberative** style is also used in addressing audiences, usually audiences too large to permit effective interchange between speaker and hearers, although the forms are normally not as polished as those in an oratorical style. A typical university classroom lecture is often carried out in a deliberative style.
3. A consultative style is typically a dialog, though formal enough that words are chosen with some care. Business transactions, doctor-patient conversations, and the like are usually consultative in nature,
4. A **casual style** is typical of conversations between friends or colleagues or sometimes members of a family; in this context words need not be guarded and social barriers are moderately low.
- 5- An **intimate style** is one characterized by complete absence of social inhibitions. Talk with family, loved ones, and very close friends, where the inner self is revealed, is usually in an intimate style.

Categories of style can apply to written discourse as well. Most writing is addressed to readers who cannot respond immediately; that is, stretches of discourse—books, essays, letters, e-mails—are read from beginning to end before the reader gives a response. Written style is therefore usually more deliberative with the exception of friendly letters, notes, e-mails, or literature intended to capture a more personal style. With the notable exception of e-mail style, these more common every day written genres, still carry with them conventional expectations of reasonably well-chosen wording with relatively few performance variables. E-mail writing, oddly enough, has evolved into a culture in which one is almost obligated ***not*** to correct performance slips!

Styles are manifested by both verbal and nonverbal features. Differences in style can be conveyed in body language, gestures, eye contact, and the like—all very difficult aspects of "language" for the learner to acquire. (Nonverbal communication is discussed below.) Verbal aspects of style are difficult enough to learn. Syntax in many languages is characterized by contractions and other deletions in intimate and casual styles. Lexical items vary, too. Bolinger (1975) gave a somewhat tongue-in-cheek illustration of lexical items that have one semantic meaning but represent each of the five styles: *on the hall, smart, intelligent, perceptive, and astute*—from intimate to frozen, respectively. He of course recognized other meanings besides those of style that intervene to make the example somewhat overstated. Style distinctions in pronunciation are likely to be most noticeable in the form of hesitations and other misarticulations, phonological deletion rules in informal speech, and perhaps a more affected pronunciation in formal language.

Related to stylistic variation is another factor, **register**, sometimes incorrectly used as a synonym for style. Registers are commonly identified by certain phonological variants, vocabulary, idioms, and other expressions that are associated with different occupational or socioeconomic groups. Registers sometimes enable people to identify with a particular group and to maintain solidarity. Colleagues in the same occupation or profession will use certain jargon to communicate with each other, to the exclusion of eavesdroppers. Truckers, airline pilots, salespersons, and farmers, for example, use words and phrases unique to their own group. Register is also sometimes associated with social class distinctions, but here the line between register and dialect is difficult to define (see Wardhaugh, 1992, and Chaika, 1989, for further comments). The acquisition of styles and registers poses no simple problem for second language learners. Cross-cultural variation is a primary barrier—that is, understanding cognitively and affectively what levels of formality are appropriate or inappropriate. North American culture generally tends to accept more informal styles for given occasions than some other cultures.

Some English learners in the United States consequently experience difficulty in gauging appropriate formality distinctions and tend to be overly formal. Such students are often surprised by the level of informality expressed by their American professors. The acquisition of both styles and registers thus combines a linguistic and culture-learning process.

NONVERBAL COMMUNICATION

We communicate so much information nonverbally in conversations that often the verbal aspect of the conversation is negligible. This is particularly true for interactive language functions in which social contact is of key importance and in which it is not *what* you say that counts but *how* you say it—what you convey with body-language, gestures, eye contact, physical distance, and other nonverbal messages. Nonverbal communication, however, is so subtle and subconscious in a native speaker that verbal language seems, by comparison, quite mechanical and systematic. Language becomes distinctly human through its nonverbal dimension, or what Edward Hall (1959) called the "silent language." The expression of culture is so bound up in nonverbal communication that the barriers to culture learning are more nonverbal than verbal. Verbal language requires the use of only one of the five sensory modalities: hearing, but there remain in our communicative repertoire three other senses by which we communicate every day, if we for the moment rule out taste as falling within a communicative category (though messages are indeed sent and received through the taste modality). We will examine each of these.

Kinesics

Every culture and language uses body language, or kinesics, in unique but clearly interpretable ways. "There was speech in their dumbness, language in their very gesture," wrote Shakespeare in *The Winter's Tale*. At cultures throughout the history of humankind have relied on kinesics for conveying important

messages. Books like Dresser's *Multicultural Manners* (1996) join a long string of manuals (e.g., Fast, 1970; Hall, 1966, 1959) offering lighthearted but provocative insights on the use of kinesics in North American and other cultures. Today virtually every book on communication explains how you communicate – and miscommunicate – when you fold your arms, cross your legs, stand, walk, move your eyes and mouth, and so on.

But as universal as kinesic communication is, there is tremendous variation cross-culturally and cross-linguistically in the specific interpretations of gestures. Human beings all move their heads, blink their eyes, move their arms and hands, but the significance of these movements varies from society to society. Consider the following categories and how you would express them in American culture.

1. Agreement, "yes"
2. "No!"
3. "Come here"
4. Lack of interest, "I don't know"
- 5- Flirting signals, sexual signals
6. Insults, obscene gestures

There are conventionalized gestural signals to convey these semantic categories. Are those signals the same in another language and culture? Sometimes they are not. And sometimes a gesture that is appropriate in one culture is obscene or insulting in another. Nodding the head, for example, means "yes" among most European language speakers. But among the Ainu of Japan, "yes" is expressed by bringing the arms to the chest and waving them. The pygmy Negritos of interior Malaya indicate "yes" by thrusting the head sharply forward, and people from the Punjab of India throw their heads sharply backward. The Ceylonese curve their chins gracefully downward in an arc to the left shoulder, whereas Bengalis rock their heads rapidly from one shoulder to the other.

Eye Contact

Is eye contact appropriate between two participants in a conversation? When is it permissible not to maintain **eye contact**? What does eye contact or the absence thereof signal? Cultures differ widely in this particular visual modality of nonverbal communication. In American culture it is permissible, for example, for two participants of unequal status to maintain prolonged eye contact. In fact, an American might interpret lack of eye contact as discourteous lack of attention, while in Japanese culture eye contact might be considered rude. Intercultural interference in this nonverbal category can lead to misunderstanding.

Not only is eye contact itself an important category, but the gestures, as it were, of the eyes are in some instances keys to communication. Eyes can signal interest, boredom, empathy, hostility, attraction, understanding, misunderstanding, and other messages. The nonverbal language of each culture has different ways of signaling such messages. An important aspect of unfettered and unambiguous conversation in a second language is the acquisition of conventions for conveying messages by means of eye signals.

Proxemics

Physical proximity, or proxemics, is also a significant communicative category. Cultures vary widely in acceptable distances for conversation. Edward Hall (1966) calculated acceptable distances for public, social-consultative, personal, and intimate discourse. He noted, for example, that Americans feel that a certain personal space "bubble" has been violated if a stranger stands closer than 20 to 24 inches away unless space is restricted, such as in a subway or an elevator. However, a typical member of a Latin American culture would feel that such a physical distance would be too great. The interesting thing is that neither party is specifically aware of what is wrong when the distance is not right. They merely have vague feelings of discomfort or anxiety.

Sometimes objects – desks, counters, other furniture – serve to maintain certain physical distances. Such objects tend to establish both the overall style and relationship of participants. Thus, a counter between two people maintains a consultative mood. Similarly, the presence of a desk or a computer monitor will set the tone of a conversation. Again, however, different cultures interpret different mes-

sages in such objects. In some cultures, objects might enhance the communicative process, but in other cases they impede it.

Artifacts

The nonverbal messages of artifacts such as clothing and ornamentation are also important aspects of communication. Clothes often signal a person's sense of self-esteem, socioeconomic class, and general character. Jewelry also conveys certain messages. In a multicultural conversation group, such artifacts, along with other nonverbal signals, can be a significant factor in lifting barriers, identifying certain personality characteristics, and setting a general mood.

Kinesthetics

Touching, sometimes referred to as kinesthetics, is another culturally loaded aspect of nonverbal communication. How we touch others and where we touch them is

sometimes the most misunderstood aspect of nonverbal communication. Touching in some cultures signals a very personal or intimate style, while in other cultures extensive touching is commonplace. Knowing the limits and conventions is important for clear and unambiguous communication.

Olfactory Dimensions

Our noses also receive sensory nonverbal messages. The olfactory modality is of course an important one for the animal kingdom, but for the human race, too, different cultures have established different dimensions of olfactory communication. The twentieth century has created in most technological societies a penchant for perfumes, lotions, creams, and powders as acceptable and even necessary; natural human odors, especially perspiration, are thought to be undesirable. In some societies, of course, the smell of human perspiration is quite acceptable and even attractive. Second language and especially second culture learners need to be aware of the accepted mores of other cultures in the olfactory modality.

CLASSROOM CONNECTIONS

Research Findings: Common observation and research both point out that nonverbal communication is an extremely important, if not crucial, aspect of face-to-face communication. Edward Hall (1966), Julius Fast (1970), and Norine Dresser (1996) all bear testimony to this critical component of communication.

Teaching Implications: To what extent have you been specifically taught nonverbal language such as gestures, eye contact, and proxemics? Many language courses fail to attend to this significant mode of communication, under the mistaken assumption that verbal forms—sounds, words, phrases, and sentences—are sufficient for a learner to cope in a foreign language. Which nonverbal aspects would you teach, and how would you teach them?

We cannot underestimate the importance of nonverbal communication in second language learning and in conversational analysis (DeCapua & Wimeigerst 2004; Matsumoto, 2000; Ketlennan, 1992). CC includes nonverbal competence—knowledge of all the varying nonverbal semantics of the second culture, and an ability both to send and receive nonverbal signals unambiguously.

CC IN THE CLASSROOM: CLT AND TASK-BASED TEACHING

As [he field of second language pedagogy has developed and matured over the past few decades, we have experienced a number of reactions and counter-reactions in methods and approaches to language teaching. We can look back over a century of foreign language teaching and observe the trends as they came and went. How will we look back 100 years from now and characterize the present era?

Communicative Language Teaching

The answer may lie in our recent efforts to engage in **communicative language teaching** (CLT). The "push toward communication" (Higgs & Clifford, 1982) has been relentless. Researchers have defined and redefined the construct of communicative competence (Savignon, 2005). They have explored the myriad functions of language that learners must be able to accomplish- They have described spoken and written discourse and pragmatic conventions. They have examined the nature of styles and nonverbal communication. With this storehouse of knowledge we have valiantly pursued the goal of learning how best to teach communication.

One glance at current journals in second language teaching reveals quite an array of material on CLT. Numerous textbooks for teachers and teacher trainers expound on the nature of communicative approaches and offer techniques for varying ages and purposes. In short, wherever you look in the literature today, you will find reference to the communicative nature of language classes,

CLT is best understood as an approach, rather than a method (Richards & Rodgers, 2001). It is therefore a unified but broadly based theoretical position about the nature of language and of language learning and teaching. It is nevertheless difficult to synthesize all of the various definitions that have been offered. From the earlier seminal works in CLT (Savignon, 1983; Breen & Candlin, 1980; Widdowson, 1978b) up to more recent work (Savignon, 2005; Ellis, 2005; Nunan, 2004; Brown, 2001), we have definitions enough to send us reeling. For the sake of simplicity and directness, I offer the following four interconnected characteristics as a definition of CLT.

1. Classroom goals are focused on all of the components of CC and not restricted to grammatical or linguistic competence.
2. Language techniques are designed to engage learners in the pragmatic, authentic, functional use of language for meaningful purposes. Organizational language forms are not the central focus but rather aspects of language that enable the learner to accomplish those purposes.
3. Fluency and accuracy are seen as complementary principles underlying communicative techniques. At times fluency may have to take on more importance than accuracy in order to keep learners meaningfully engaged in language use.
4. In the communicative classroom, students ultimately have to use the language, productively and receptively, in unrehearsed contexts.

These four characteristics underscore some major departures from earlier approaches. In some ways those departures were a gradual product of outgrowing the numerous methods (Community Language Learning, the Natural Approach, etc., discussed in earlier chapters) that characterized a long stretch of history. In other ways those departures were radical. Structurally (grammatically) sequenced curricula were a mainstay of language teaching for centuries. CLT suggests that grammatical structure might better be subsumed under various functional categories. CLT pays considerably less attention to the overt presentation and discussion of grammatical rules than traditionally practiced. A great deal of use of authentic language is implied in CLT as teachers attempt to build fluency (Chambers, 1997). It is important to note, however, that fluency is not encouraged at the expense of clear, unambiguous, direct communication. Finally, much more spontaneity is present in communicative classrooms: students are encouraged to deal with unrehearsed situations under the guidance, but not control, of the teacher.

The fourth characteristic of CLT often makes it difficult for a nonnative speaking teacher who is not very proficient in the second language to teach effectively. Dialogs, drills, rehearsed exercises, and discussions (in the first language) of grammatical rules are much simpler for some nonnative speaking teachers to contend with. This drawback should not deter one, however, from pursuing communicative goals in the classroom. Technology (video, television, audiotapes, the Internet, computer software) can come to the aid of such teachers. Moreover, in the last decade or so, we have seen a marked increase in English teachers' proficiency levels around the world. As educational and political institutions in various countries become more sensitive to the importance of teaching foreign languages for communicative purposes (not just for the purpose of fulfilling a "requirement" or of "passing a test"), we may be better able, worldwide, to accomplish the goals of communicative language teaching.

Task-Based

Instruction

j

Among recent manifestations of CLT, **task-based Instruction** has emerged as a major focal point of language teaching practice worldwide (Ellis, 2005; Nunan, 2004; Skehan, 2003; Bygate, Skehan, & Swain, 2001; Willis, 1996). As the profession has continued to emphasize classroom interaction, learner-centered teaching, authenticity, and viewing the learner's own experiences as important contributors to learning, task-based instruction draws the attention of teachers and learners to **tasks** in the classroom. Skehan (2003, p. 3) defines a task as simply "an activity which requires learners to use language, with emphasis on meaning, to attain an objective." But this leaves a great deal of room for interpretation, so perhaps a task is better understood in Skehan's (1998, p. 95) description: a task is an activity in which meaning is primary, there is a problem to solve and relationship to real-world activities, with an objective that can be assessed in terms of an outcome.

David Nunan (2004), among others (Skehan, 2003; Willis, 1996), is careful to distinguish between **target tasks** (uses of language in the world beyond the classroom) and **pedagogical tasks** (those that occur in the classroom). Tasks are a subset of all

the techniques and activities that one might design for the classroom, and themselves might involve several techniques. So, for example, a map-oriented problem-solving task might involve teacher initiated schema setting comments, a review of appropriate grammar and/or vocabulary useful for the task, pair or group work to propose and discuss solutions, and a whole-class reporting procedure. All of these are "communicative" and part of the nature of CLT, but the task itself is designed to equip learners with the communicative language needed to give someone directions. This particular task may be described as a pedagogical task with a relationship to real-world situations, designed to enable learners to complete the target task of giving directions.

Task-based instruction is an approach that urges teachers, in their lesson and curriculum designs, to focus on many of the communicative factors discussed in this chapter. In order to accomplish a task, a learner needs to have sufficient organizational competence. Locutionary competence to convey

researchers in task-based teaching, provides a summary of task-based teaching. Both offer extensive bibliographies.

LANGUAGE LEARNING EXPERIENCE: JOURNAL ENTRY 8

Note: See pages 21 and 22 of Chapter 1 for general guidelines for writing a journal on a previous or concurrent language learning experience.

- In your foreign language, would you say you are "communicatively competent"? Defend your response using some of the categories discussed in the first part of this chapter.
- Make two lists: activities your teacher uses (used) to promote (a) CAJ.P and (b) BICS. Do you agree with the proportion of one to the other, given the purposes of your class?
- Are you satisfied with your progress in acquiring some of the discourse features, conversation rules, and pragmatic conventions of your foreign language? Describe what you think you can "do," in your language, in these domains.
- If you are familiar enough with writing conventions in your foreign language, describe some of the differences you perceive between your native language and the foreign language. To what extent do the differences reflect cultural points of view?
- Is your foreign language gender-loaded in any way? Describe.
- Describe the verbal and nonverbal manifestations of different styles (from intimate to oratorical) in your foreign language.
- Does your teacher engage in CLT? Evaluate the methodology of your class on the basis of the four principles of CLT. Does the teacher use what you could describe as task-based teaching? If so, describe an activity that you think was, to some extent anyway, task based.

PART IV

FACTORS

CHAPTER 9

CROSS-LINGUISTIC

INFLUENCE AND LEARNER

LANGUAGE

Up to this point in the treatment of principles of second language acquisition, our focus has been on psychological (learning, cognition, strategies, emotions) and social (cultural, sociolinguistic, pragmatic) principles of second language acquisition. Psychosocial variables form the foundation stones for building a comprehensive understanding of the acquisition of the linguistic system. In this chapter we will take a different direction as we begin to examine the most salient component of second language acquisition: the language itself. This treatment will first consider in historical progression, an era of preoccupation with studies of contrasts between the native and target language and the effect of the first language on a second. We will then see how the era of contrastive analysis gave way to an era of error analysis, with its guiding concept of interlanguage, or what is also called learner language. Then, questions about the effect on acquisition of input, interaction, feedback, awareness, and error treatment will be addressed. Finally, we will take a look at research on the effect of classroom instruction, especially debates about focus on form, all of which has some obvious practical implications for the language teacher.

THE CONTRASTIVE ANALYSIS HYPOTHESIS

In the middle of the twentieth century, one of the most popular pursuits for applied linguists was the study of two languages in contrast. Eventually the stockpile of comparative and contrastive data on a multitude of pairs of languages yielded what commonly came to be known as the Contrastive Analysis Hypothesis (CAH). Deeply rooted in the behavioristic and structuralist approaches of the day, the CAH claimed that the principal barrier to second language acquisition is the interference of the first language system with the second language system, and that a scientific, structural analysis of the two languages in question would yield a taxonomy of linguistic contrasts between them which in turn would enable linguists and language teachers to predict the difficulties a learner would encounter.

from English and Spanish (a native English speaker learning Spanish as a second language); a few examples illustrate other pairs of contrasting languages.

Level 0—Transfer. No difference or contrast is present between the two languages. The learner can simply transfer (positively) a sound, structure, or lexical item from the native language to the target language. Examples: English and Spanish cardinal vowels, word order, and certain words (*mortal, inteligente, arte, americanos*).

Level 1—Coalescence Two items in the native language become coalesced into essentially one item in the target language. This requires that learners overlook a distinction they have grown accustomed to. Examples: English third-person possessives require gender distinction (*his/her*), and in Spanish they do not (*su*); an English speaker learning French must overlook the distinction between *teach* and *learn* and use just the one word *apprendre* in French

Level 2—Underdifferentiation. An item in the native language is absent in the target language. The learner must avoid that item. Examples: English learners of Spanish must "forget" such items as English *do* as a tense carrier, possessive forms of *wh-* words (*whose*), or the use of *some* with mass nouns.

Level 3—Reinterpretation An item that exists in the native language is given a new shape or distribution. Example: An English speaker learning French must learn a new distribution for nasalized vowels.

Level 4—Overdifferentiation A new item entirely, bearing little if any similarity to the native language item, must be learned. Example: An English speaker learning Spanish must learn to include determiners in generalized nominals (Man is mortal/*el hombre es mortal*), or, most commonly, to learn Spanish grammatical gender inherent in nouns.

Level 5—Split. One item in the native language becomes two or more in the target language, requiring the learner to make a new distinction. Example: An English speaker learning Spanish must learn the distinction between *ser* and *estar* (to be), or the distinction between Spanish indicative and subjunctive moods.

Prator's reinterpretation, and Stockwell and his associates' original hierarchy of difficulty, were based on principles of human learning as they were understood at the time. The first, or "zero," degree of difficulty represented complete one-to-one correspondence and transfer, while the fifth degree of difficulty was the height of interference. Prator and Stockwell both claimed that their hierarchy could be applied to virtually any two languages and make it possible to predict second language learner difficulties in any language with a fair degree of certainty and objectivity.

CLASSROOM CONNECTIONS

Research Findings: Given the linguistic and psychological mood that characterized the middle part of the twentieth century, it is no surprise to find a paradigm that focused on scientific description and prediction. Stockwell, Fisiyun, and Martin's (1965) hierarchy of difficulty promised just that: a way to predict the linguistic difficulty that learners would encounter in a foreign language classroom.

Teaching Implications: Today, first language effects are considered important—but not necessarily exclusive—factors in accounting for the learner's acquisition of a second

language. In a communicative language classroom, teachers will attend to the potential effects of the first language, but will embed such attention in meaningful communication. To what extent have your foreign language classroom experiences focused on first language interference? How important was diat tiicus?

FROM THE CAH TO CLI

Prediction of difficulty by means of contrastive procedures was soon shown to have glaring shortcomings. For one thing, the process was oversimplified. Subtle phonetic, phonological, and grammatical distinctions were not carefully accounted for. Second, it was very difficult, even with six categories, to determine exactly which category a particular contrast fit into. For example, when a Japanese speaker learns the English A/, is it a case of a Level 0, 1, or 3 difficulty? A case can be made for all three. The third and most problematic issue centered on the larger question of whether or not *predictions* of difficulty levels were actually verifiable.

The attempt to predict difficulty by means of contrastive analysis is what Ronald Wardhaugh (1970) called the strong version of the CAH, a version that he believed was quite unrealistic and impracticable. Wardhaugh noted (p. 125) that "at the very least, this version demands of linguists that they have available a set of linguistic universals formulated within a comprehensive linguistic theory which deals adequately with syntax, semantics, and phonology." He went on to point out the difficulty (p. 126), already noted, of an adequate procedure, built on sound theory, for actually contrasting the forms of languages: "Do linguists have available to them an overall contrastive system within which they can relate the two languages in terms of mergers, splits, zeroes, over-differentiations, under-differentiations, reinterpretations?" And so, while many linguists claimed to be using a scientific, empirical, and theoretically justified tool in contrastive analysis, in actuality they were operating more out of mentalistic subjectivity,

Wardhaugh noted, however, that contrastive analysis had intuitive appeal, and that teachers and linguists had successfully used "the best Linguistic knowledge available . . . in order to account for observed difficulties in second language learning" (p. 126). He termed such observational use of contrastive analysis the weak version of the CAH. The weak version does not imply the *a priori* prediction of certain degrees of difficulty. It recognizes the significance of interference across languages, the fact that such interference does exist and can explain difficulties, but it also recognizes that Linguistic difficulties can be more profitably explained *a posteriori* – after the fact. As learners are learning the language and errors appear, teachers can utilize their knowledge of the target and native languages to understand sources of error.

The so-called weak version of the CAH is what remains today under the label cross-linguistic influence (CLI) (Odlin, 2003; Kellerman, 1995; Keilerman & Sharwood-Smith, 1986), suggesting that we all recognize the significant role that prior experience plays in any learning act, and that the influence of the native language as prior experience must not be overlooked. The difference between today's emphasis on influence, rather than prediction, is an important one. Aside from phonology, which remains the most reliable linguistic category for predicting learner performance, as illustrated at the beginning of the chapter, other aspects of language present more of a gamble. Syntactic, lexical, and semantic interference show far more variation among learners than psychomotor-based pronunciation interference. Even presumably simple grammatical categories like word order, tense, or aspect have been shown to contain a good deal of variation. For example, one might expect a French speaker who is beginning to learn English to say "I am in New York since January"; however, to predict such an utterance from every French learner of English is to go too far.

markedness research, but even in this hope-filled avenue of research, an instant map predicting learner difficulties is not right around the corner.

LEARNER LANGUAGE

The CAH stressed the interfering effects of the first language on second language learning and claimed, in its strong form, that second language learning is primarily, if not exclusively, a process of acquiring whatever items are different from the first language. As already noted above, such a narrow view of interference ignored the intralingual and strategic effects of learning, among other factors. In recent years researchers and teachers have come more and more to understand that second language learning is a process of the creative construction of a system in which learners are consciously testing hypotheses about the target language from a number of possible sources of knowledge: knowledge of the native language, limited knowledge of the target language itself, knowledge of the communicative functions of language, knowledge about language in general, and knowledge about life, people, and the universe around them. Learners, in acting upon their environment, construct what to them is a legitimate system of language in its own right—a structured set of rules that for the time being brings some order to the linguistic chaos that confronts them.

By the late 1960s, SLA began to be examined in much the same way that first language acquisition had been studied for some time: learners were looked on not as producers of malformed, imperfect language replete with mistakes but as intelligent and creative beings proceeding through logical, systematic stages of acquisition, creatively acting upon their linguistic environment as they encountered its forms and functions in meaningful contexts. By a gradual process of trial and error and hypothesis testing, learners slowly and tediously succeed in establishing closer and closer approximations to the system used by native speakers of the language. A number of terms have been coined to describe the perspective that stresses the legitimacy of learners' second language systems. The best known of these is Interlanguage, a term that Selinker (1972) adapted from Weinreich's (1953) term "interlingual." Interlanguage refers to the separateness of a second language learner's system, a system that has a structurally intermediate status between the native and target languages.

Nemser (1971) referred to the same general phenomenon in second language learning but stressed the successive approximation to the target language in his term approximative system. Corder (1971, p. 151) used the term idiosyncratic dialect to connote the idea that the learner's language is unique to a particular individual, that the rules of the learner's language are peculiar to the language of that individual alone. While each of these designations emphasizes a particular notion, they share the concept that second language learners are forming their own self-contained linguistic systems. This is neither the system of the native language nor the system of the target language, but a system based upon the best attempt of learners to bring order and structure to the linguistic stimuli surrounding them. The interlanguage hypothesis led to a whole new era of second language research and teaching and presented a significant breakthrough from the shackles of the CAH.

The most obvious approach to analyzing interlanguage is to study the speech and writing of learners, or what is sometimes called learner language (Lightbown & Spada, 1993; James, 1990). Production data is publicly observable and is presumably reflective of a learner's underlying competence—production competence, that is. Comprehension of a second language is more difficult to study since it is not directly observable and must be inferred from overt verbal and nonverbal responses, by artificial instruments, or by the intuition of the teacher or researcher.

It follows that the study of the speech and writing of learners is largely the study of the errors of learners. "Correct" production yields little information about the actual linguistic system

of learners, only information about the target language system that learners have already acquired. Therefore, the focus of the next part of this chapter will be on the significance of errors in learners' developing systems, otherwise known as error analysis.

ERROR ANALYSIS

Learning is fundamentally a process that involves the making of mistakes. Mistakes, misjudgments, miscalculations, and erroneous assumptions form an important aspect of learning virtually any skill or acquiring information. You learn to swim by first jumping into the water and flailing arms and legs until you discover that there is a combination of movements—a structured pattern—that succeeds in keeping you afloat and propelling you through the water. The first mistakes of learning to swim are giant ones, gradually diminishing as you learn from making those mistakes. Learning to swim, to play tennis, to type, or to read all involve a process in which success comes by profiting from mistakes, by using mistakes to obtain feedback from the environment, and with that feedback to make new attempts that successively approximate desired goals.

Language learning, in this sense, is like any other learning. We have already seen in Chapter 2 that children learning their first language make countless "mistakes" from the point of view of adult grammatical language. Many of these mistakes are logical in the limited linguistic system within which children operate, but, by carefully processing feedback from others, children slowly but surely learn to produce what is acceptable speech in their native language. Second language learning is a process that is clearly not unlike first language learning in its trial-and-error nature. Inevitably learners will make mistakes in the process of acquisition, and that process will be impeded if they do not commit errors and then benefit from various forms of feedback on those errors.

Researchers and teachers of second languages came to realize that the mistakes a person made in this process of constructing a new system of language needed to be analyzed carefully, for they possibly held in them some of the keys to the understanding of the process of second language acquisition (James, 1998). As Corder (1967, p. 167) noted: "A learner's errors ... are significant in [that] they provide to the researcher evidence of how language is learned or acquired, what strategies or procedures the learner is employing in the discovery of the language."

Mistakes and Errors

In order to analyze learner language in an appropriate perspective, it is crucial to make a distinction between mistakes and errors, technically two very different phenomena. A mistake refers to a performance error that is either a random guess or a "slip," in that it is a failure to utilize a known system correctly. All people make mistakes, in both native and second language situations. Native speakers are normally capable of recognizing and correcting such "lapses" or mistakes, which are not the result of a deficiency in competence but the result of some sort of temporary breakdown or imperfection in the process of producing speech. These hesitations, slips of the tongue, random ungrammaticalities, and other performance lapses in native-speaker production also occur in second language speech. Mistakes, when attention is called to them, can be self-corrected.

Mistakes must be carefully distinguished from errors of a second language learner, idiosyncrasies in the language of the learner that are direct manifestations of a system within which a learner is operating at the time. An error, a noticeable deviation from the adult grammar of a native speaker, reflects the competence of the learner. Learners of English who ask "Does John can sing?" are in all likelihood reflecting a competence level in which all verbs require a pre-posed *do* auxiliary for question formation. As such, it is an error, most likely not a mistake, and an error that reveals a portion of the learner's competence in the target language.

CLASSROOM CONNECTIONS

Research Findings: Mistakes are what researchers have referred to as performance errors (the learner knows the system but fails to use it), while errors are the result of one's systematic competence (the learner's system is incorrect).

Teaching Implications: in some ways, mistakes in learners' speech may be a sign of progress. The learner is aware of what he or she "should" say, and, when questioned or corrected, is cognizant of the "right" way to say it. Teachers can help students to notice their linguistic output in class, and slowly convert systematic errors into appropriate forms. To what extent has your learning or teaching been characterized by a progression of noticing and repair? Can you think of stages when you were in the process of cleaning up your errors and may have made a few random mistakes?

Can you tell the difference between an error and a mistake? Not always. An error cannot be self-corrected, according to James (1998, p.83), while mistakes can be self-corrected if the deviation is pointed out to the speaker. But the learner's capacity for self-correction is objectively observable only if the learner actually self-corrects; therefore, if no such self-correction occurs, we are still left with no means to identify error vs. mistake. So, can we turn to frequency of a deviant form as a criterion? Sometimes. If, on one or two occasions, an English learner says "John cans sing," but on other occasions says "John can sing," it is difficult to determine whether "cans" is a mistake or an error. If, however, further examination of the learner's speech consistently reveals such utterances as "John wihs go," "John mays come," and so forth, with very few instances of correct third-person singular usage of modal auxiliaries, you might safely conclude that "cans," "mays," and other such forms are errors indicating that the learner has not distinguished modals from other verbs. But it is possible, because of the few correct instances of production of this form, that the learner is on the verge of making the necessary differentiation between the two types of verbs.

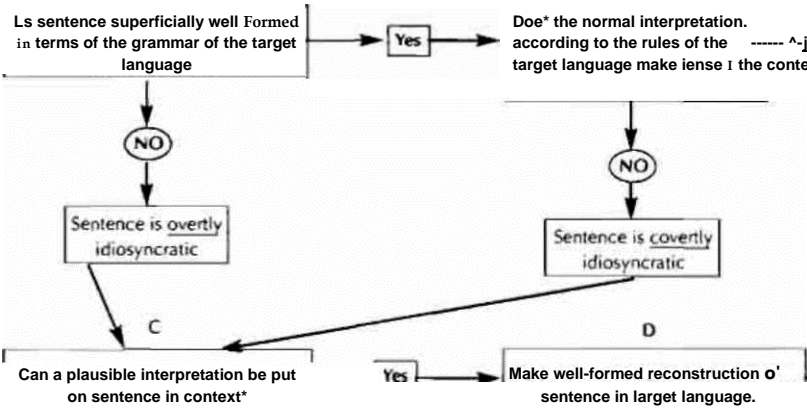
You can thus appreciate the subjectivity of determining the difference between a mistake and an error in learner speech. That undertaking always bears with it the chance of a faulty assumption on the part of a teacher or researcher.

The fact that learners do make errors, and that these errors can be observed, analyzed, and classified to reveal something of the system operating within the learner, led to a surge of study of learners' errors, called error analysis. Error analysis became distinguished from contrastive analysis by its examination of errors attributable to *all* possible sources, not just those resulting from negative transfer of the native language. Error analysis easily superseded contrastive analysis, as we discovered that only *some* of the errors a learner makes are attributable to the mother tongue, that learners do not actually make all the errors that contrastive analysis predicted they should, and that learners from disparate language backgrounds tend to make similar errors in learning one target language. Errors – overt manifestations of learners' systems – arise from several possible general sources: interlingual errors of interference from the native language, intralingual errors within the target language, the sociolinguistic context of communication, psycholinguistic or cognitive strategies, and no doubt countless affective variables.

Errors in Error Analysis

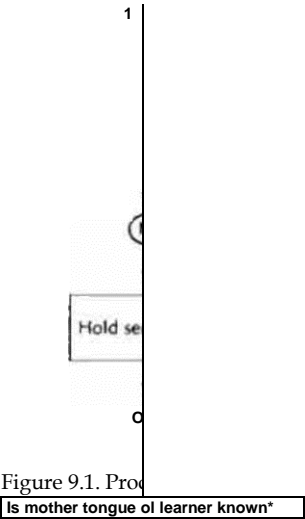
language. That model is schematized in figure 9-1 ■ According to Corder's model, any sentence uttered by the learner and subsequently transcribed can be analyzed for idiosyncrasies. A major distinction is made at the outset between **overt** and **covert errors**. Overtly erroneous utterances are unquestionably ungrammatical at the sentence level. Covertly erroneous utterances are grammatically well formed at the sentence level but are not interpretable within the context of communication. Covert errors, in other words, are not really covert at all if you attend to surrounding discourse (before or after the utterance). "I'm fine thank you" is grammatically correct at the sentence level, but as a response to "How are you?" it **is** obviously an error. A simpler and more straightforward **set** of terms then, would be "sentence level" and "discourse level" errors.

Corder's model in Figure 9.1 indicates that, in the case of both overt and covert errors, if a plausible interpretation can be made of the sentence, then one should



Sentence is not idiosyncratic ■ OUT)

Compare a reconstructed sentence with original idiosyncratic sentence. In what respect did rules for accounting for original and reconstructed sentence differ? ■ OUT2



Translate sentence literally into L1 Is plausible interpretation in context possible?

Translate L1 sentence back into target language to provide reconstructed sentence

form a reconstruction of the sentence in the target language, compare the reconstruction with the original idiosyncratic sentence, and then describe the differences. If the native language of the learner is known, the model indicates using translation as a possible indicator of native language interference as the source of error. In some cases, of course, no plausible interpretation is possible at all, and the researcher is left with no analysis of the error (OUT*).

Consider the following examples of idiosyncratic utterances of learners, and let us allow them to be fed through Cordcr's procedure for error analysis;

1. "Does John can sing"
 A. NO
 C YES
 D. Can John sing?
 E. Original sentence contained pre-posed **do** auxiliary applicable to most verbs, but not to verbs with modal auxiliaries. OUT₂
2. "I saw their department"
 A. YES
 B. NO (Context was in a conversation about living quarters in Mexico.)
 C. NO
 F. YES, Spanish.
 G. Yo vt su departamento. YES
 H. I saw their apartment.
 E. *Departamento* was translated to false cognate *department*. OUT,
3. "The different city is another one in the another two."
 A. NO
 C. NO
 F. YES, Spanish.
 G. No plausible translation or interpretation.
 t. No analysis. OUTj

It can be seen that the model is not complicated and represents a procedure that teachers and researchers might intuitively follow, Of course, once an error is identified, the next step is to describe it adequately, something the above procedure has only begun to accomplish.

A number of different categories for description of errors have been identified in research on learner language (for an overview, see Lennon, 1991),

1. The most generalized breakdown can be made by identifying errors of **addition, omission, substitution, and ordering**, following standard mathematical categories. In English a *do* auxiliary might be added (*Does can be sing?*), a definite **article** omitted (*/ went to movie*), a *n* item substituted (*/ lost my road*), or a word order confused (*I to the store went*). But such categories are clearly very generalized.
2. Within each category, levels of language can be considered: phonology or orthography, lexicon, grammar, and discourse. Often, of course, it is difficult to distinguish different levels of errors. A word with a faulty pronunciation, for example, might hide a syntactic or lexical error A French learner who says "["/.hey] su is a lie a l'ecole" might be mispronouncing the grammatically correct "je," or correctly pronouncing a grammatically incorrect "j'ai."
3. Errors may also be viewed as either global or local (Hurt & Kiparsky, 1972). Global errors hinder communication; they prevent the hearer from comprehending some aspect of the message. For example, "Well, it's a great hurry around," in whatever context, may be difficult to interpret. Local errors do not prevent the message from being heard, usually because there is only a minor violation of one segment of a sentence, allowing the hearer/reader

apparent intralingual error, but repeated systematic observations of a learner's speech data will often remove the ambiguity of a single observation of an error.

The analysis of intralingual errors in a corpus of production data can become quite complex. For example, in Barry Taylor's (1975, p. 95) analysis of English sentences produced by ESL learners, erroneous attempts to produce the main verb following an auxiliary yielded nine different types of error:

- 1. Past tense form of verb following a modal
- 2. Present tense -s on a verb following a modal
- 3. *-itig* on a verb following a modal
- 4. *are* (for *be*) following *will*
- 5. Past tense form of verb following *do*
- 6. Present tense -s on a verb following *do*
- 7. *-ittg* on a verb following *do*
- 8. Past tense form of a verb following *be* (inserted to replace a modal or *do*)
- 9. Present tense -s on a verb following *ftp* (inserted to replace a modal or *do*)

And of course these are limited to the particular data that Taylor was analyzing and are therefore not exhaustive within a grammatical category. Moreover, they pertain only to errors of overgeneralization, excluding another long list of categories of errors that he found attributable to interlingual transfer. Similarly, Jack Richards (1971, pp. 185-187) provided a list of typical English intralingual errors in the use of articles (see Table 9.1). These are not exhaustive either, but are examples of some of the errors commonly encountered in English learners from disparate native language backgrounds. Both Taylor's and Richards's lists are restricted to English, but clearly their counterparts exist in other languages.

Table 8.1. Typical English intralingual errors in the use of articles

1. Omission of <i>the</i>	
a. before unique nouns	Sun is very hot Himalayas are . .
b. before nouns of nationality	. . Spaniards and Arabs . . . At the
c. before nouns made particular in context	conclusion of article She goes to bazaar every day She is mother of that boy Solution given in this article Riches! person Institute of Nuclear Physics
d. before a noun modified by a participle	
e. before superlatives	
f. before a noun modified by an <i>of</i> phrase	The Shakespeare, the Sunday The friendship,
2. <i>me</i> used instead of <i>o</i>	The nature, the science After the school, after the breakfast
a. before proper names	The complex structures are still developing The
b. before abstract nouns	some knowledge
c. before nouns behaving like abstract nouns	
d. before plural nouns	
e. before <i>some</i>	a worst, a best hoy in the class a sun becomes red
3. <i>a</i> used instead of <i>the</i>	
a. before superlatives	a holy places, a human beings,
b. before unique nouns	a bad news
4. <i>tt</i> Instead of <i>o</i>	a gold, a work
a. before a plural noun qualified by an adjective	. . . taken as a definite
b. before uncountable*	
c. before an adjective	he was good boy he was brave man
5. Omission of <i>a</i>	
before class nouns defined by adjectives	

Source: Richards, 1971, p. 187.

Context of Learning

A third major source of error, although it overlaps both types of transfer, is the context of learning. "Context" refers, for example, to the classroom with its teacher and its materials in the case of school learning or the social situation in the case of untutored second language learning. In a classroom context the teacher or the textbook can lead the learner to make faulty hypotheses about the language, what Richards (1971) called "false concepts" and what Stenson (1974) termed Induced errors. Students often make errors because of a misleading explanation from the teacher, faulty presentation of a structure or word in a textbook, or even because of a pattern that was rote memorized in a drill but improperly contextualized. Two vocabulary items presented contiguously—for example, *point at* and *point out*—might in later recall be confused simply because of the contiguity of presentation. Or a teacher may provide incorrect information—not an uncommon occurrence—by way of a misleading definition, word, or grammatical generalization. Another manifestation of language learned in classroom contexts is the occasional tendency on the part of learners to give uncontracted and inappropriately formal forms of language. We have all experienced foreign learners whose "bookish" language gives them away as classroom language learners.

The sociolinguistic context of natural, untutored language acquisition can give rise to certain dialect acquisition that may itself be a source of error. Corder's term "idiosyncratic dialect" applies especially well here. For example, a Japanese immigrant who lived in a predominantly Mexican American area of a US city produced a learner language that was an interesting blend of Mexican American English and the standard English to which he was exposed in the university, colored by his Japanese accent.

Communication Strategies

In Chapter 5, communication strategies were defined and related to learning styles. Learners obviously use production strategies in order to enhance getting their messages across, but at times these techniques can themselves become a source of error. Once an ESL learner said, "Let us work for the well done of our country." While it exhibited a nice little twist of humor, the sentence had an incorrect approximation of the word *welfare*. Likewise, word coinage, circumlocution, false cognates (from Tarone, 1981), and prefabricated patterns can all be sources of error.

STAGES OF LEARNER LANGUAGE DEVELOPMENT

There are many different ways to describe the progression of learners' linguistic development as their attempts at production successively approximate the target language system. Indeed, learners are so variable in their acquisition of a second language that stages of development defy description. Borrowing some insights from an earlier model proposed by Corder (1973), I have found it useful to think in terms of four stages, based on observations of what the learner does in terms of errors alone.

1. The first is a stage of random errors, a stage that Corder called presystematic, in which the learner is only vaguely aware that there is some systematic order to a particular class of items. The written utterance "The different city is another one in the another two" surely comes out of a random error stage in which the learner is making rather wild guesses at what to write. Inconsistencies like "John cans sing," "John can to sing," and "John can singing," all said by the same learner within a short period of time, might indicate a stage of experimentation and inaccurate guessing.
2. The second, or emergent, stage of learner language finds the learner growing in consistency in linguistic production. The learner has begun to discern a system and to internalize certain rules. These rules may not be correct by target language standards, but they are nevertheless legitimate in the mind of the learner. This stage is characterized by some backsliding, in which the learner seems to have grasped a rule or principle

and then regresses to some previous stage. This phenomenon of moving from a correct form to an incorrect form and then back to correctness is referred to as U-shaped learning (Gass & Selinker, 2001). In general the learner is still, at this stage, unable to correct errors when they are pointed out by someone else. Avoidance of structures and topics is typical. Consider the following conversation between a learner (L) and a native speaker (NS) of English:

Li: I go New York.
BHN: You're going to New York?
L: [doesn't understand] What?
NS: You will go to New York?
L: Yes.
NS: When?
L: 1972.
NS: Oh, you went to New York in 1972.
L: Yes. I go 1972.

Such a conversation is reminiscent of those mentioned in Chapter 2, where children in first language situations could not discern any error in their speech. 3. A third stage is a truly systematic stage in which the learner is now able to manifest more consistency in producing the second language. While those rules that are stored in the learner's brain are still not all well formed, and some of them conform to the above mentioned U-shaped processes, they are more internally self-consistent and, of course, they more closely approximate the target language system. The most salient difference between the second and third stage is the ability of learners to correct their errors when they are

SLA in many contexts, across proficiency levels, and within many specific purposes. We need not be apologetic, therefore, about the remaining unanswered questions, for many of the questions posed in the short half-century of "modern" research on SLA have been effectively answered.

In this chapter we critically examine a number of current generalizations, hypotheses, and models of SLA. Remember that such "opinion" about SLA may represent separate views of that metaphorical mountain of factors we talked about in Chapter 1. From such multiple perspectives we should be able to place a large number of variables (which have been defined and discussed in this book) into a

New learner successfully completes a brief conversation	Normal conversational exchanges of some length
--	---

Implicit and Explicit Models

Another set of constructs for conceptualizing the varied processes of second language learning is found in models that make a distinction between explicit and implicit linguistic knowledge, constructs that were introduced earlier in this chapter, included in the explicit category are the facts that a person knows *about* language and the ability to articulate those facts in some way. Explicit processing differs from McLaughlin's focal attention in that explicit signals one's knowledge about language. Implicit knowledge is information that is automatically and spontaneously used in language tasks. Children implicitly learn phonological, syntactic, semantic, and pragmatic rules for language, but do not have access to an explanation, explicitly, of those rules. Implicit processes enable a learner to perform language but not necessarily to cite rules governing the performance.

Among those who have proposed models of SLA using the implicit/explicit distinction are Ellen Bialystok (1990a, 1982, 1978), Rod Ellis (1997, **1994a**), and Nick Ellis (1994a). Bialystok's (1978) diagrammatic conception of SLA (see Figure 10.2) featured a flowchart showing implicit and explicit processing as central to the total act of learning a second language. Bialystok later (1982, p. **183**) equated implicit and explicit with the synonymous terms unanalyzed and analyzed knowledge:

research has just begun, and it has begun mostly in the context of Western cultural settings. The studies that are so far available are fragmentary with regard to pinpointing specific linguistic features, stages of learner development, pragmatic contexts, and pedagogical settings. And, as always, one side of the second language mountain of research must be compared with other perspectives. A broadly based theory of SLA must encompass models of learner-internal processing (such as those previously discussed) as well as the socially constructed dynamics of interpersonal communication. (See Tabic 10.3 for a summary of the previously discussed perspectives.)

The other side of the story is that Long's Interaction Hypothesis has pushed pedagogical research on SLA into a new frontier. It centers us on the language classroom not just as a place where learners of varying abilities and styles and backgrounds mingle, but as a place where the contexts for interaction are carefully designed. It focuses materials and curriculum developers on creating the optimal environments and tasks for input and interaction such that the learner will be stimulated to create his or her own learner language in a socially constructed process.

Further, it reminds us that the many variables at work in an interactive classroom should prime teachers to expect the unexpected and to anticipate the novel creations of learners engaged in the process of discovery.

Table 10.3 Theories and models of SLA

Innatist	Cognitive	Constructivist
IKrashenj	fMcLaughlin/Bialystok]	[Long] Interaction
Subconscious acquisition superior to	Controlled/automatic	hypothesis Intake through
"learning" and "monitoring" Comprehensible	processing (McL)	social
input (i + 1)	Focal/peripheral attention	interaction Output
Low affective filter Natural order of	(McL) Restructuring (McL)	hypothesis (Swain)
acquisition	Implicit vs. explicit (B)	HIGs (Seliger) Authenticity
"Zero option" for grammar instruction	Unanalyzed vs.	Task-based instruction
	analyzed knowledge (B)	
	Form-focused instruction	

OUT ON A LIMB: A LIGHT-HEARTED "HORTICULTURAL"
THEORY OF SLA

Before drawing this chapter to a close with some final (and serious) comments about theory and practice in SLA, I want to take this opportunity to engage in some light-hearted, right-brained, "out of the box" musings about SLA. First, a disclaimer: I know of no research that supports the diagrammatic description of SLA that I'm about to present, and make no pretense of asserting anything of a serious, scholarly nature about it. It is simply intended to entertain, amuse, or maybe even to stimulate fun her creative dunking!

I have struggled over the years with the complexities of the kinds of models of SLA that have been described in this chapter. Such models, in their graphic or flowchart form (Bialystok's model in Figure 10.2, for example), always appear to be so mechanical. Some, of them more closely resemble the wiring diagrams pasted on the back of electric stoves than what I like to imagine the human brain must "look" like. Or certainly than the way our organic world operates!

So, yielding to my sometimes rebellious spirit, I was moved one day in a SLA class I was teaching to create a different "picture" of language acquisition: one that responded not so much to rules of logic, mathematics, and physics as to botany and ecology-. The germination (pun intended) of my picture was the metaphor once used by Derek Bickerton in a lecture at the University of Hawaii about his contention that human beings are "bio-programmed" tor language (see Bickerton, 1981) perhaps not unlike the bio-program of a flower seed, whose genetic makeup predisposes it to deliver, in successive stages, roots, stem, branches, leaves, and flowers. In a burst of synapses in my right hemisphere, I went out on a limb (another pun intended) to extend the flower-seed metaphor to language acquisition. My picture of the "ecology" of language acquisition is in Figure tO.Ji,

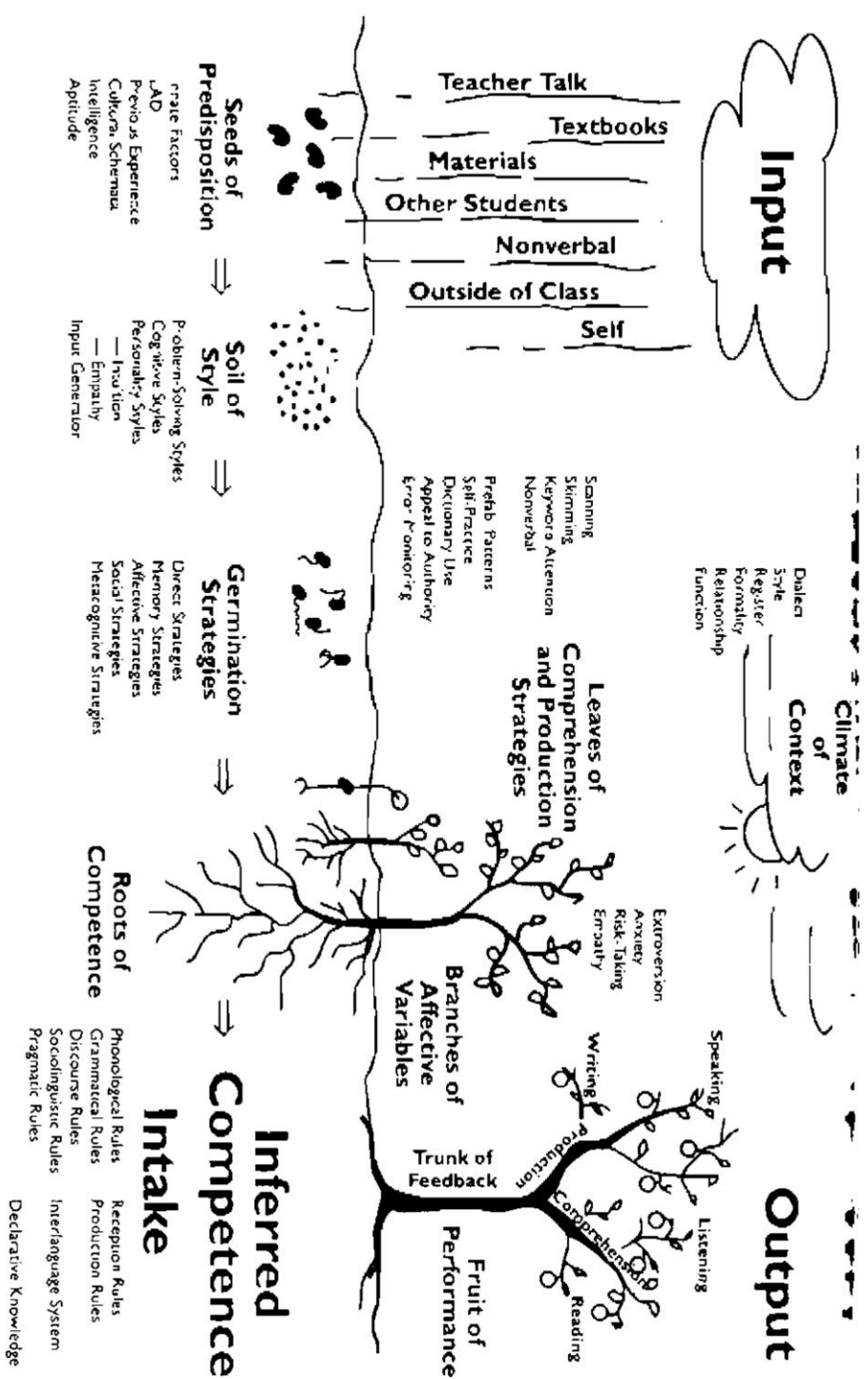


Figure 10.3. The ecology of language acquisition (Brown, 1991)

the believing game provides us with a contrasting principle, intuition. Psychological research on cognitive styles has shown us that people tend to favor either an intuitive approach or an

Or, as Krashen (1983, p. 261) once said, "When we [Krashen] provide theory, we provide them [teachers] with the underlying rationale for methodology in general." Typically, theories are constructed by professors and researchers who spend lots of time hypothesizing, describing, measuring, and drawing conclusions about learners and learning. Just as typically, practitioners are thought of as teachers who are out there in classrooms every day stimulating, encouraging, observing, and assessing real-live learners.

A Reciprocal Relationship, Not a Dichotomy

The last century of language teaching history, operating within this theory-practice, researcher-teacher dichotomy, has not been completely devoid of dialogue between the two sides. The cycles, trends, and fads were to a great extent the result of the interplay between in-class practice and beyond-class research. We moved in and out of paradigms (Kuhn, 1970) as inadequacies of the old ways of doing things were replaced by better ways. These trends in language teaching were partly the result of teachers and researchers communicating with each other. As pedagogical approaches and techniques were conceived and developed, essential data were provided for the stimulation of research, which in turn suggested more effective ways of teaching and learning, and the interdependent cycle continued.

These historical mileposts notwithstanding, the custom of leaving theory to researchers and practice to teachers has become, in Clarke's (1994) words, "dysfunctional." The unnecessary stratification of laborers in the same vineyard, a dysfunction that has been perpetuated by both sides, has accorded higher status to a researcher/theorist than to a practitioner/teacher. The latter is made to feel that he or she is the recipient of the former's findings and prognostications, with little to offer in return. What is becoming clearer in this profession now is the importance of viewing the process of language instruction as a cooperative dialog among many technicians, each endowed with special skills. Technicians' skills vary widely; program developing, textbook writing, observing, measuring variables of acquisition, teacher educating, synthesizing others' findings, in-class facilitating, designing experiments, assessing, applying technology to teaching, counseling, and the list goes on. There is no set of technical skills here that gets uniquely commissioned to create theory or another set allocated to "practicing" something.

We are all practitioners and we are all theorists. We are all charged with developing a broadly based conceptualization of the process of language learning and teaching. We are all responsible for understanding as much as we can how to create contexts for optimal acquisition among learners. Whenever that understanding calls for putting together diverse bits and pieces of knowledge, you are doing some theory building. Let's say you have some thoughts about the relevance of age factors, cognitive style variations, intercultural communication, and strategic competence to a set of learners and tasks; then you are constructing theory. Or, if you have observed some learners in classrooms and you discern common threads of process among them, you have created a theory. And whenever you, in the role of a teacher.

analytical approach to a problem. Ewing (1977, p. 69) noted that analytical or "systematic" thinkers "generally excel in problems that call for planning and organization, as when one set of numbers must be worked out before another can be analyzed." On the other hand, he went on, "intuitive thinkers are likely to excel if the problem is elusive and difficult to define. They keep coming up with different possibilities, follow their hunches, and don't commit themselves too soon." Sternberg and Davidson (1982) found that "insight" — making inductive leaps beyond the given data — is an indispensable factor of what we call "intelligence," much of which is traditionally defined in terms of analysis.

And this suggests that intuition forms an essential component of our total intellectual endeavor. In looking at the contrasting role of intuition and analysis in educational systems in general, Bruner and Clinchy (1966, p. 71) said, "Intuition is less rigorous with respect to proof, more visual or iconic, more oriented to the whole problem than to particular parts, less verbalized with respect to justification, and based on a confidence in one's ability to operate with insufficient data."

One of the important characteristics of intuition is its non-verbalizability. Often, we are not able to give much verbal explanation of why we have made a particular decision or solution. The implications for teaching are clear. We daily face problems in language teaching that have no ready analysis.

available language or metalanguage to capture the essence of why a particular decision was made. Many good teachers cannot verbalize why they do what they do, in a specific and analytical way, yet they remain good teachers.

Intuition involves acertain kind of risk taking. As we saw in Chapter 6, language learners need to take risks willingly. Language teachers must be willing to risk techniques or assessments that have their roots in a "gut feeling," a hunch, that they are right. In our universe of complex theory, we still perceive vast black holes of unanswerable questions about how people best learn second languages. Intuition, "the making of good guesses in situations where one has neither an answer nor an algorithm for obtaining it" (Baldwin, 1966, p. 84), fills the void.

There is ample evidence that good language teachers have developed good intuition. In an informal study of cognitive styles among ESL learners a few years ago, I asked their teachers to predict the TOEFL score that each of their students would attain when they sat for the TOEFL the following week. The teachers had been with their students for only one semester, yet their predicted scores and the actual TOEFL results yielded the highest (+ .90) correlations in the whole study.

How do you "learn" intuition? There is no simple answer to this question, yet some ingredients of a rationale are apparent:

1. First, you need to internalize essential theoretical foundations like those we have been grappling with throughout this book. Intuition is not developed in a vacuum. It is the product, in part, of a firm grounding in what is known, in analytical terms, about how people learn languages and why some people do not learn languages.

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2. Second, there is no substitute for the experience of standing on your own two feet (or sitting down!) in the presence of real learners in the real world. Intuitions are formed at the crossroads of knowledge and experience. As you face those day by day, or even minute by minute, struggles of finding out who your learners are, deciding what to teach them, and designing ways to teach, you learn by trial, by error, and by success. You cannot be a master teacher the first time you teach a class. Your failures, near failures, partial successes, and successes all teach you intuition. They teach you to sense what will work and what will not work.
3. A third principle of intuition learning follows from the second. You must be a willing risk taker yourself. Let the creative juices within you flow freely. The wildest and craziest ideas should – perhaps with some caution – be entertained openly. In so doing, intuition will be allowed to germinate and to grow to full fruition.

Our search for an adequate theory of SLA can become thwarted by overzealous attempts to find analytical solutions. We may be looking too hard to find the ultimate system. As Schumann (1982a) said, at times we need to feel, ironically, that our own ideas are ?«important. That way we avoid the panicky feeling that what we do today in class is somehow going to be permanently etched in the annals of foreign language history. The relevance of theory can be perceived by adopting an essential attitude of self-confidence in our ability to form hunches that will probably be "right."

* * * * if!

If your hunches about SLA are firmly grounded in a comprehensive understanding of what SLA is and what we know about optimal conditions for learning a second language, you are well on your way to becoming an *enlightened* language teacher. You will plan a lesson, enter a classroom, and engage interactively with students, all with an optimistic attitude that you have formed a *principled* approach to your practice. You may stumble here and there and falter from time to time, but you will use the tools of your SLA theory to *reflect* on your practice and then to learn from those reflections how to better approach the classroom on the next day. I hope you have been enabled, through digesting the pages of this book, to make that enlightened, principled, reflective journey!

TOPICS AND QUESTIONS FOR STUDY AND DISCUSSION

Note: (I) Individual work; (G) group or pair work; (C) whole-class discussion.

1. (G) On pages 288-289, Lightbown's (1985) 10 generalizations about SLA are listed. In pairs or small groups (if numbers permit) assign one generalization
 - 10** each pair/group with the task of (a) explaining the generalization further, (b) offering any caveats or *"it depends"* statements about it, and (c) citing an example or two of the generalization in the language classroom.
2. (G) Likewise (see Item 1 above), look at the six "myths" (page 289). In small groups, figure out (a) why it is a myth, (b) caveats or conditions that qualify the statement, and (c) some examples or counterexamples in the language classroom.
3. (I) Review the major tenets of the three schools of thought outlined in Chapter 1 and referred to throughout the book: structuralism-behaviorism, rationalism-cognitivism, constructivism. Do Krashen's Input Hypothesis and the cognitive models of people like McLaughlin and Bialystok and Ellis fit the second school of thought? How so? Ask the same questions about Long's Interaction Hypothesis for the third school.
4. (Q) Review the five tenets of Krashen's Input Hypothesis. Which ones are most plausible? Least plausible? How would you take the "best" of his theories and apply them in the classroom and yet still be mindful of the various problems inherent in his ideas about SLA? How do Larsen-Freeman's caveats about chaos theory and Long's criteria (pages 290 and 291) enlighten your evaluation of Krashen's model?
- 5- (G) In pairs, each assigned to one topic below, think of examples in learning a foreign language (inside or outside a classroom) that illustrate: (a) HIGs and LIGs and the Output Hypothesis, (b) McLaughlin's focal and peripheral processes, (c) McLaughlin's controlled and automatic stages, (d) implicit and explicit linguistic knowledge, (e) interaction as the basis of acquisition.
6. (I/G/C) If you have quite a bit of time, try devising a "model" of SLA that doesn't use prose as much as a visual, graphic, or kinesthetic metaphor. For example, you might create an SLA board game in which players have to throw dice and pass through the "pits of puberty," the "mire of mistakes," the "falls of fossilization," and so on. Or, you could create a chart something like Bialystok's (Figure 10.2, page 303) model. Do this individually, or in pairs/groups, for "homework," then share your creation with the rest of the class. Try to defend your model on the basis of at least some of the criteria for a viable theory presented by Larsen-Freeman or Long (pages 290 and 291).
7. (G/C) Suppose you have been invited to an international symposium on SLA, the goal of which is to devise a theory of SLA. Each person can bring three and only three tenets or generalizations to be included in the theory, in groups or pairs, decide on three such tenets (or, at least, domains of consideration) that you consider the most important to include. Defend your three on the basis of Larsen-Freeman's or Long's lists, *if* appropriate, found on pages 290 and 291. Share findings with the class and see if the class can create a composite picture of the most important features of a theory of SLA.
8. (I) Consider some of the controversies that have been discussed in this book: innateness, defining intelligence, the Whorfian Hypothesis, the strong version of the Contrastive Analysis Hypothesis, Krashen's Input Hypothesis, and others. Play the believing game with what might be labeled the "unpopular side" of the controversy. How does it feel? How does it help to put things into balance? In what way are both games necessary for ultimate understanding?
- 9- (C) Go back to the definitions of language, learning, and teaching that you formulated at the beginning of this book. How might you revise those definitions now?
10. (G) Pairs or groups should each make a list of characteristics of a "successful language teacher." What steps do you think you could take to train yourself to be more successful? That is, what are your weaknesses and strengths, and how might you work on those weaknesses from what you know so far about foreign language teaching?

SUGGESTED READINGS

Gregg, K. **(2003)**. SLA theory: Construction and assessment. **In** C. Doughty & M. Long (Eds), *The handbook of second language acquisition* (pp. 831-865). Malden, MA: Blackwell Publishing.

For some challenging and mind-opening reading, try Kevin Gregg's chapter in the Doughty and Long Handbook on theoretical positions in SLA. In this chapter, he deals with philosophical and psychological traditions, the domains of SLA theories, innateness, input, frequency, Universal Grammar, and other fundamental concepts in theory building.

DeKeyser, R. (2003). Implicit and explicit learning **In** C. Doughty & M. Long (Eds.), *The handbook of second language acquisition* (pp. 313-348). Malden, MA: Blackwell Publishing.

Gass, S.(2003) Input and interaction. **In** C. Doughty & M. long (Eds.), *The handbook of second language acquisition* (pp. 224-255). Malden, MA: Blackwell Publishing.

Hulstijn, L. (2003). Incidental and intentional learning. **In** C. Doughty & M Long (Eds.), *The handbook of second language acquisition* (pp. 349-381). Malden, MA: Blackwell Publishing. Segalowitz, N. (2003). Automaticity and second languages. **In** C. Doughty & M. Long (Eds.). *The handbook of second language acquisition* (pp. 382-408). Malden, MA: Blackwell Publishing.

in these four chapters of the Doughty and Long Handbook, leading scholars in their respective fields provide summaries of some of the "hot

issues" in SLA research. Each presents a balanced view of issues and include extensive lists of related references.

Swain, M. (2005). The output hypo thesis: Theory and research. In E. Hinkel (Ed.), *Handbook of research in second language teaching and learning* (pp. 471-483). Mahwah, NJ: Lawrence Erlbaum Associates.

In this survey article, Merrill Swain offers a concise overview of the last two decades or so of research on the Output Hypothesis. She capably demonstrates the inadequacy of a theory of SLA that relies only on input as the causative factor of acquisition.

Lantolli, J. (1996). SLA theory building: Letting all the flowers bloom! *Language Learning*, 46, 713-749, James Lantolf presents some tough but rewarding reading on the place of metaphor in SLA theories, with a balanced perspective on theories in SLA and other disciplines.

LANGUAGE LEARNING EXPERIENCE: FINAL JOURNAL ENTRY

Note: See pages 21 and 22 of Chapter 1 for general guidelines for writing a journal on a previous or concurrent language learning experience.

- At the beginning of the chapter, nine statements were made that correspond to the previous nine chapters in this book. Choose two or three of those nine (more if you have time), and write about your own language learning experience in relation to the topic.
- What do you think, in your own experience as a language learner, is the most useful aspect of Krashen's Input Hypothesis, and what is the least useful?
- Do you agree with Swain and Seliger that output and the act of generating input is an important feature of a successful learner? How does your own experience support (or contradict) such claims?
- Think of an example in your own learning of each of McLaughlin's four cells: (1) Focal-controlled; (2) Peripheral-controlled; (3) Focal-automatic; (4) Peripheral-automatic. Write them in your journal in a chart format and comment.
- If you didn't do exercise 6 on page 314 already, take on that assignment of creating a largely nonverbal model of SLA,
- As an alternative, try outlining what you think would be the top three or four or five elements/concepts/issues in creating your theory of SLA, and briefly justify your choices.

Given everything you now know about learning a second language, what are the characteristics of a *successful* teacher? How did your own foreign language teacher measure up?

What did you like the most about writing this journal? If not, what benefit did you gain from the journal-writing process? How would you change the process if you were to tackle such journal writing again?

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acculturation the process of adjusting and adapting to a new culture, usually when one is living in the new culture, and often with the resultant creation of a new cultural identity

affect emotion or feeling

affective domain emotional issues and factors in human behavior, often compared to the cognitive domain

affective filter a condition of low anxiety and nondefensiveness that permits one to acquire a language

ambiguity Intolerance a style in which an individual is relatively ill-equipped to withstand or manage a high degree of uncertainty in a linguistic context, and as a result may demand more certainty and structure

ambiguity tolerance a style in which an individual is relatively well suited to withstand or manage a high degree of uncertainty in a linguistic context

analyzed knowledge the general form in which we know most things with awareness of the structure of that knowledge (see **explicit knowledge**)

anomie feelings of social uncertainty, dissatisfaction, or "homelessness" as individuals lose some of the bonds of a native culture but are not yet fully acculturated in the new culture **anxiety** the subjective feeling of tension, apprehension, and nervousness connected to an arousal of the autonomic nervous system, and associated with feelings of uneasiness, frustration, self-doubt, apprehension, or worry

appeal to authority a direct appeal for help from a more proficient user of the language

approach a unified but broadly based theoretical position about the nature of language and of language learning and teaching that forms the basis of methodology in the language classroom

approximative system learner language that emphasizes the successive approximation of the learner's output to the target language

artifacts in nonverbal communication, factors external to a person, such as clothing and ornamentation, and their effect on communication

assimilative orientation learning a language in order to form a long-term identity with the culture of a second language group, possibly at the expense of losing one's original cultural identity

attention getting securing the attention of one's audience in a conversation **attention** the psychological process of focusing on certain stimuli to the exclusion of others

attitude a set of personal feelings, opinions, or biases about races, cultures, ethnic groups, classes of people, and languages

attribution theory how people explain the causes of their own successes and failures **attrition** the loss or forgetting of language skills

Audiolingual Method (ALM) a language teaching method, popular in the 1950s, that placed an extremely strong emphasis on oral production, pattern drills, and conditioning through repetition

auditory learning style the tendency to prefer listening to lectures and audiotapes, as opposed to visual and/or kinesthetic processing

authentic (referring to pronunciation) oral production judged by a speech community to be correct, native or native-like, and appropriate within that speech community **authenticity** a principle emphasizing real-world, meaningful language used for genuine communicative purposes

automatic processes relatively permanent cognitive efforts, as opposed to controlled processes

autonomy individual effort and action through which learners initiate language, problem solving, strategic action, and the generation of linguistic input **avoidance** (of a topic) in a conversation, steering others away from an unwanted topic; (of a language form) a strategy that leads to refraining from producing a form that speaker may not know, often through an alternative form; as a strategy, options intended to prevent the production of ill-formed utterances, classified into such categories as syntactic, lexical, phonological, and topic avoidance

awareness cognizance of linguistic, mental, or emotional factors through attention and focus; conscious attention

awareness-raising usually, in foreign language classes, calling a learner's attention to linguistic factors that may not otherwise be noticed

backsliding (in learner language) a phenomenon in which the learner seems to have grasped a rule or principle and then regresses to a previous stage

basic interpersonal communicative skills (BICS) the communicative capacity that all humans acquire in order to be able to function in daily interpersonal exchanges; context-embedded performance

behavioral science a paradigm that studies the behavior of organisms (including humans) by focusing centrally on publicly observable responses that can be objectively and scientifically perceived, recorded, and measured **capability continuum paradigm** see variable competence model

chaining acquiring a chain of two or more stimulus-response connections **chaos/complexity theory** an approach to describing a phenomenon that emphasizes its dynamic, complex, nonlinear, and unpredictable nature

clarification request an elicitation of a reformulation or repetition from a student **classical conditioning** psychological learning paradigm associated with Pavlov, Thorndike, Watson, and others which highlights the formation of associations between stimuli and responses that are strengthened through rewards

Classical Method a language teaching method in which the focus is on grammatical rules, memorization of vocabulary and other language forms, translation of texts, and performing written exercises

code-switching in *bi lingua* is, the act of inserting words, phrases, or even longer stretches of one language into the other

cognitive constructivism a branch of constructivism that emphasizes the importance of individual learners constructing their own representation of reality **cognitive pruning** the elimination of unnecessary clutter and a clearing of the way for more material to enter the cognitive field

cognitive psychology a school of thought in which meaning, understanding, and knowing are significant data for psychological study, and in which one seeks psychological principles of organization and mental and emotional functioning, as opposed to behavioral psychology, which focuses on overt, observable, empirically measurable behavior **cognitive strategies** strategic options relating to specific learning tasks that involve direct manipulation of the learning material itself **cognitive style** the way a person learns material or solves problems **cognitive/academic language proficiency (CALP)** the dimension of proficiency in which a learner manipulates or reflects on the surface features of language in academic contexts, such as test-taking, writing, analyzing, and reading academic texts; context-reduced performance

collectivism a cultural worldview that assumes the primacy of community, social groups, or organizations and places greater value on harmony within such groups than on one's individual desires, needs, or aspirations

communication strategies strategic options relating to output, how one productively expresses meaning, and how one effectively delivers messages to others (see **learning strategies**)

communicative competence (CC) the cluster of abilities that enable humans to convey and interpret messages and to negotiate meanings interpersonally within specific contexts

Communicative Language Teaching (CLT) an approach to language teaching methodology that emphasizes authenticity, interaction, student-centered learning, task-based activities, and communication for real-world, meaningful purposes

Community Language Learning (CLL) language teaching method that emphasizes interpersonal relationships, inductive learning, and views the teacher as a "counselor" **compensatory strategies** strategic options designed to overcome self-perceived weaknesses, such as using prefabricated patterns, code-switching, and appeal to authority **competence** one's underlying knowledge of a system, event, or fact; the unobservable ability to perform language but not to be confused with performance **Competition Model** the claim that when strictly formal (eg. phonological, syntactic) options for interpreting meaning through appeal to the first language have been exhausted, second language learners naturally look for alternative "competing" possibilities to create meaning

comprehension the process of receiving language; listening or reading; input **conditioned response** in behavioral learning theory, a response to a stimulus that is learned or elicited by an outside agent

connectionism the belief that neurons in the brain are said to form multiple connections **conscious learning** see **awareness** and **focal attention**

constructivism the integration of various paradigms with an emphasis on social interaction and the discovery, or construction, of meaning

context-embedded language language forms and functions that are embedded in a set of schemata within which the learner can operate, as in meaningful conversations, real-life tasks, and extensive reading (see **basic interpersonal communicative skills**) **context-reduced language** language forms and functions that lack a set of embedded schemata within which the learner can operate, as in traditional test items, isolated reading excerpts, and repetition drills (see **cognitive academic language proficiency**) **Contrastive Analysis Hypothesis (CAH)** the claim that the principal barrier to second language acquisition is first language interference, and that a scientific analysis of the two languages in question enables the prediction of difficulties a learner will encounter **contrastive rhetoric** naturally occurring discourses, usually written, across different languages and cultures

controlled processes capacity limited and temporary cognitive efforts, as opposed to automatic processes

conversation interactive oral exchange involving two or more persons **corpus linguistics** an approach to linguistic research that relies on computer analyses of a collection, or corpus, of texts – written, transcribed speech, or both – stored in electronic form and analyzed with the help of computer software programs

corrective feedback responses to a learner's output that attempt to repair or call attention to an error or mistake

covert error an error that is grammatically well formed at the sentence level but not interpretable within the context of communication; a discourse error

creative construction the hypothesis, in child second language acquisition, that claims

the rarity of L1 interference, the emergence of common acquisition orders, perception of systematic features of language, and the production of novel utterances

Critical Period Hypothesis the claim that there is a **biological timetable before** which and after which language acquisition, both first and second, is more successfully accomplished **critical period** a biologically determined period of life when language can be acquired more easily and beyond which time language is increasingly difficult to acquire **cross-linguistic influence** (CLI) a concept that replaced the contrastive analysis hypothesis, recognizing the significance of the role of the first language in learning a second, but with an emphasis on the facilitating and interfering effects both languages have on each other culture the ideas, customs, skills, arts, and tools that characterize a given group of people in a given period of time

culture shock in the process of acculturation, phenomena involving mild irritability, depression, anger, or possibly deep psychological crisis due to the foreignness of the new cultural milieu debilitating anxiety feelings of worry that are perceived as detrimental to one's self-efficacy or that hinder one's performance

deductive reasoning moving from a generalization to specific instances in which subsumed facts are inferred from a general principle

descriptive adequacy satisfying scientific or empirical principles for describing a phenomenon such as language

descriptive school of linguistics see **structural school of linguistics** **Direct Method** a language teaching method popular in the early twentieth century that emphasized direct target language use, oral communication skills, and inductive grammar, without recourse to translation from the first language

discourse analysis the examination of the relationship between forms and functions of language beyond the sentence level

discourse competence the ability to connect sentences in stretches of discourse and to form a meaningful whole out of a series of utterances

discourse a language (either spoken or written) beyond the sentence level; relationships and rules that govern the connection and interrelationship of sentences within communicative contexts

domain (in error analysis) the rank of linguistic unit (from phoneme to discourse) that must be taken as context in order for the error to become apparent

egocentricity characteristic of very young children in which the world revolves around them, and they see all events as focusing on themselves

elicitation a corrective technique that prompts the learner to self-correct

elicited response behavior resulting from a preceding outside stimulus

emergent stage (of learner language) one in which the learner grows in consistency in linguistic production

emergentism a perspective that questions nativism and holds that the complexity of language, like any other human ability, emerges from relatively simple developments processes being exposed to a massive and complex environment **emitted response** behavior freely offered without the presence of an outside stimulus

emotional intelligence associated with Goleman, a mode of intelligence that place emotion, and/or the management of emotions, at the seat of intellectual functioning **empathy** "putting yourself into someone else's shoes," reaching beyond the self to understand what another person is thinking or feeling **empiricism** see **scientific method!**

English as a foreign language (EFL) generic term for English learned as a foreign language in a country or context in which English is not commonly used as a language of education, business, or government, e.g., expanding circle countries

English as a second language (ESL) generic term for English learned as a foreign language within the culture of an English-speaking (inner circle) country

English as an international language (EIL) English as a *lingua franca* worldwide

English only a political movement in the United States arguing for a language policy that compels institutions to use English in ballots, driver's regulations, education, etc., at the exclusion of other languages

EQ see **emotional Intelligence**

equilibration progressive interior organization of knowledge in a stepwise fashion; moving from states of doubt and uncertainty (disequilibrium) to stages of resolution and certainty (equilibrium)

error an idiosyncrasy in the language of the learner that is a direct manifestation of a system within which a learner is operating at the time

error analysis the study of learners' ill-formed production (spoken or written) in an effort to discover systematicity

explanatory adequacy satisfying a principled basis, independent of any particular language, for the selection of a descriptively appropriate grammar of a language **explicit correction** an indication to a student that a form is incorrect and providing a corrected form

explicit knowledge information that a person knows *about* language and usually, the ability to articulate that information

explicit learning acquisition of linguistic competence with conscious awareness of, or focal attention on, the forms of language, usually in the context of instruction **extent** (in error analysis) the rank of linguistic unit that would have to be deleted, replaced, supplied, or reordered in order to repair the sentence

extrinsic motivation choices made and effort expended on activities in anticipation of a reward from outside and beyond the self

extroversion the extent to which a person has a deep-seated need to receive ego enhancement, self-esteem, and a sense of wholeness from other people, as opposed to receiving that affirmation within oneself, as opposed to introversion **eye contact** nonverbal feature involving what one looks at and how one looks at another person in face-to-face communication

facilitative anxiety "helpful" anxiety, euphoric tension, or the beneficial effects of apprehension over a task to be accomplished

field dependence the tendency to be "dependent" on the total field so that the parts embedded in the field are not easily perceived, although that total field is perceived more clearly as a unified whole **field Independence** ability to perceive a particular, relevant item or factor in a "field" of distracting items

field sensitivity synonymous with **field dependence**

Flow theory school of thought that highlights the importance of an experiential state characterized by intense focus and involvement that leads to improved performance on a task

fluency the unfettered flow of language production or comprehension usually without focal attention on language forms

focal attention giving central attention to a stimulus, as opposed to peripheral attention **form-focused instruction** (FFI) any pedagogical effort used to draw a learner's attention to language form either implicitly or explicitly

forms (of language) the "bits and pieces" of language, such as morphemes, words, grammar rules, discourse rules, and other organizational elements of language **fossilization** the relatively permanent incorporation of incorrect linguistic forms into a person's second language competence; also referred to as **stabilization framing** conceptualizing the universe around us with linguistic symbols that shape the way people think — through words, phrases, and other verbal associations **frequency** (of input) number of occurrences of a form, in either input or output, in a given amount of time

functional syllabus see **notional-functional syllabus**

functions (of language) the meaningful, interactive purposes within a social (pragmatic) context, that we accomplish with forms of language

pragma linguistic [the intersection of pragmatics and linguistic forms]

pragmatic competence the ability to produce and comprehend functional and sociolinguistic aspects of language: illocutionary competence

pragmatics conventions for conveying and **Interpreting** the meaning of linguistic strings within their contexts and settings

prefabricated patterns memorized chunks of language – words, phrases, short sentences – the component parts of which the speaker is unaware **presystematic error** an error in which the learner is only vaguely aware that there is some systematic order to a particular class of items; random error

proactive inhibition failure to retain material because of interfering effects of similar material learned *before* the learning task, as opposed to **retroactive inhibition process** any number of behaviors, types of learning, needs, neural connections, and emotional sets universally characteristic of all human beings **prompt** see **elicitation**

proxemics in nonverbal communication, conventions for acceptable physical distance between persons

punishment withdrawal of a positive reinforcer or presentation of an aversive stimulus **random error** see **presystematic error**

rationalism seeking to discover underlying motivations and deeper structures of human behavior by using an approach that employs the tools of logic, reason, extrapolation, and inference in order to derive explanations for human behavior; exploring "why" questions recast an implicit type of corrective feedback that reformulates or expands an ill-formed or incomplete utterance in an unobtrusive way

reflective style the tendency to take a relatively long time to make a decision or solve a problem, sometimes in order to weigh options before making a decision **register** a set of language variants commonly identified by certain phonological features, vocabulary, idioms, and/or other expressions that are associated with an occupational or socioeconomic group

reinforcement in behavioral learning theory, events or stimuli that follow a response or behavior that serve to reward the response or behavior

repair correction by the learner of an ill-formed utterance, either through self-initiated repair, or in response to feedback **repetition** (in error treatment) the sequential reiteration of an ill-formed part of a student's utterance by a teacher: reiteration by a student of the correct form as a result of teacher feedback, sometimes including incorporation of the correct form in a longer utterance **respondent conditioning** In behavioral learning theory, behavior that is elicited by a preceding stimulus

respondents sets of responses that are elicited by identifiable stimuli

response in behavioral learning theory, any elicited or emitted behavior by an organism

restructuring process by which the components of a task are coordinated, integrated, or reorganized into new units, thereby allowing old components to be replaced by a more efficient procedure

retroactive inhibition failure to retain material because of interfering effects of similar material learned *after* the learning task, as opposed to **proactive inhibition** **right-brain dominance** a style in which one favors visual, tactile, and auditory images and is more efficient in processing holistic, integrative, and emotional information **risk taking** willingness to gamble, to try out hunches about a language with the possibility of being wrong

rote learning the process of mentally storing facts, ideas, or feelings having little or no association with existing cognitive structure

saliency the importance of a perceived element of input

scientific method a process of describing verifiable, empirically assessable data; accepting as fact only those phenomena that have been subjected to empirical observation or experimentation

second identity an alternate ego, different from one's first language ego. that develops in reference to a second language and/or culture (see language ego)

self-actualization reaching the pinnacle of one's potential; the culmination of human attainment

self-efficacy belief in one's own capabilities to successfully perform an activity

self-esteem self-appraisal, self confidence, knowledge of oneself, usually categorized into **global** (overall), **situational/specific** (in a general context), and **task** (particular activities within a context) self-esteem

Series Method language teaching method created by Gouin, in which learners practiced a number of connected "series" of sentences, which together formed a meaningful story or sequence of events

shifting (of a topic) changing the subject in a conversation

signal learning learning to make a general diffuse response to a signal

situational self-esteem see **self-esteem**

social constructivism a branch of constructivism that emphasizes the importance of social interaction and cooperative learning in constructing both cognitive and emotional images of reality

social distance the cognitive and affective proximity of two cultures that come into contact within an individual

socioaffective strategies strategic options relating to social-mediating activity and interacting with others

sociobiological critical period social and biological explanations for a critical period for language acquisition (see critical period)

socio-linguistic competence ability to use or apply sociocultural rules of discourse in a language

sociopragmatics the interface between pragmatics and social organization specific self-esteem see self-esteem

speech acts communicative behaviors used systematically to accomplish particular purposes

stabilization see postsystematic stage, and fossilization

state anxiety a relatively temporary feeling of worry experienced in relation to some particular event or act, as opposed to trait anxiety

stereotype an overgeneralized, oversimplified view or caricature of another culture or a person from the culture, as perceived through the lens of one's own culture stimulus in behavioral learning theory, an agent that directly evokes a behavior (activity, emotion, [thought, or sensory excitation)

stimulus-response learning acquiring a precise response to a discriminated stimulus strategic competence (according to Canale & Swain) the ability to use strategies to compensate for imperfect knowledge of rules or performance limitations; (according to Bachman) the ability to assess a communicative context and plan and execute production responses to accomplish intended purposes

strategies-based Instruction (SBI) teaching learners with an emphasis on the strategic options that are available for learning; usually implying the teacher's facilitating awareness of those options in the learner and encouraging strategic action

strategy any number of specific methods or techniques for approaching a problem or task; modes of operation for achieving a particular end; planned designs for controlling and manipulating certain information

strong version (of the critical period hypothesis; of the contrastive analysis hypothesis) hypotheses or models that make broad generalizations with few (if any) exceptions, and that make claims, *a priori*, of the application of a model to multiple contexts structural school of linguistics a school of thought prevailing in the 1940s and 1950s, in which the linguist's task was to identify the structural characteristics of human languages by means of a rigorous application of scientific observation of the language, and using only "publicly observable responses" for the investigation structural syllabus a language course that attends primarily to forms (grammar, phonology, lexicon) as organizing elements of a foreign language curriculum, as opposed to a functional syllabus

style (in psychological functioning) consistent and rather enduring tendencies or preferences within an individual; general characteristics of intellectual and emotional functioning that differentiate one person from another

styles (in speech discourse) conventions for selecting words, phrases, discourse, and nonverbal language in specified contexts, such as intimate, casual, and consultative styles **subconscious learning** see **peripheral attention**

subsumption the process of relating and anchoring new material to relevant established entities in cognitive structure (see **meaningful learning**)

subtractive bilingualism proficiency in two languages in which learners rely more and more on a second language, which eventually diminishes their native language

sufficiency a criterion for legitimizing the conditions of a theory in which a component part is "adequate" to meet the specifications of the theory, as opposed to **necessity** **sustained deep learning** (SDL) the kind of learning that requires an extended period of time to achieve goals

sympathy understanding what another person is thinking or feeling, but agreement or harmony between individuals is implied, as opposed to **empathy** which implies more possibility of detachment

systematicity consistency and predictability in learner language

target tasks uses of language in the world beyond the classroom

task a classroom activity in which meaning is primary; there is a problem to solve, a relationship to real-world activities, with an objective that can be assessed in terms of an outcome

task self-esteem see **self-esteem**

task-based instruction an approach to language teaching that focuses on tasks (see **task**) **teaching** showing or helping someone to learn, giving instructions; guiding; providing with knowledge; causing to know or understand

tension a neutral concept that includes both dysphoric (detrimental) and euphoric (beneficial) effects in learning a foreign language (see **debilitative** and **facilitative anxiety**) **termination** (of a topic) in a conversation, strategies for ending the conversation **third language learning** acquiring an additional language beyond the second **tolerance of ambiguity** see **ambiguity tolerance**

topic clarification in a conversation, asking questions to remove perceived ambiguities in another's utterance

topic development maintaining a topic in a conversation

topic nomination proposing a topic for discussion in a conversation

Total Physical Response (TPR) a language teaching method relying on physical or kinesthetic movement accompanied by language practice

trait anxiety a relatively permanent predisposition to be anxious about a number of things, as opposed to state anxiety

transaction a social interaction through which one "reveals" thoughts, ideas, or feelings to another person

transfer the carryover of previous performance or knowledge to previous or subsequent learning triarchic theory associated with Sternberg, the hypothesis that intelligence consists of componential, experiential, and contextual abilities

turn-taking in a conversation, conventions in which participants allow appropriate opportunities for others to talk, or "take the floor"

unanalyzed knowledge the general form in which we know most things without being aware of the structure of that knowledge (see **implicit knowledge**) **uncertainty avoidance** the extent to which people within a culture are uncomfortable with situations they perceive as unstructured, unclear, or unpredictable; cultural ambiguity intolerance

unconditioned response in behavioral learning theory, a natural biological response to a stimulus, not elicited by an outside agent

uptake a student utterance that immediately follows a teacher's feedback and that constitutes a reaction in some way to the teacher's intention to draw attention to some aspect of the student's initial utterance

U-shaped learning the phenomenon of moving from a correct form to an incorrect form and then back to correctness

variable competence model a model of second language learner development that recognizes and seeks to explain variability in terms of several contextual factors; also called the capability continuum paradigm

variation instability in learners' linguistic systems

verbal association learning of chains of responses that are linguistic

visual learning style the tendency to prefer reading and studying charts, drawings, and other graphic information

weak version (of the contrastive analysis hypothesis and other models) the belief in the possibility, *a posteriori*, that a model might apply to a specified context, once contextual variables are taken into account, as opposed to a claim for predictive validity (strong version) across broad contexts

Whorfian Hypothesis the argument that one's language is not merely a reproducing instrument for voicing ideas but rather is itself the shaper of ideas, the program and guide for the individual's mental activity

willingness to communicate (WTC) an underlying continuum representing the predisposition toward or away from communicating, given the choice world Englishes varieties of English spoken and written in many different countries, especially those not in the traditional "inner circle"

worldview a comprehensive conception of the world – especially culturally socially – from one's specific cultural norms; *Weltanschauung*

zone of proximal development (ZPD) the distance between a learner's existing developmental state and his or her potential development

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Dr. H. Douglas Brown is a professor in the MA-TESOL program at San Francisco State University. He has written many articles, teacher training books, and textbooks on language pedagogy. A past president of TESOL and recipient of the James E. Alatis Award for Distinguished Service, Dr. Brown has lectured to English language teaching audiences around the world.

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