The term *social intelligence* was first used by Dewey (1909) and Lull (1911), but the modern concept has its origins in E. L. Thorndike’s (1920) division of intelligence into three facets pertaining to the ability to understand and manage ideas (abstract intelligence), concrete objects (mechanical intelligence), and people (social intelligence). In Thorndike’s classic formulation: “By social intelligence is meant the ability to understand and manage men and women, boys and girls – to act wisely in human relations” (p. 228). Similarly, Moss and Hunt (1927) defined social intelligence as the “ability to get along with others” (p. 108). Vernon (1933) provided the most wide-ranging definition of social intelligence as the “ability to get along with people in general, social technique or ease in society, knowledge of social matters, susceptibility to stimuli from other members of a group, as well as insight into the temporary moods or underlying personality traits of strangers” (p. 44).

By contrast, Wechsler (1939, 1958) gave scant attention to social intelligence in the development of the Wechsler Adult Intelligence Scale (WAIS) and similar instruments. He did acknowledge that the Picture Arrangement subtest of the WAIS might serve as a measure of social intelligence because it assesses the individual’s ability to comprehend social situations (see also Rapaport, Gill, & Shafer, 1968; Campbell & McCord, 1996). In his view, however, “social intelligence is just general intelligence applied to social situations” (p. 75). This dismissal was repeated in Matarazzo’s (1972, p. 209) fifth and final edition of Wechsler’s monograph, in which *social intelligence* dropped out as an index term.

### Measuring Social Intelligence

Defining social intelligence seems easy enough, especially by analogy to abstract intelligence. When it came to measuring social intelligence, however, Thorndike (1920) noted somewhat ruefully that “convenient tests of social intelligence are hard to devise.... Social intelligence shows itself abundantly in the nursery, on the playground, in barracks and factories and
salesroom [sic], but it eludes the formal standardized conditions of the testing laboratory. It requires human beings to respond to, time to adapt its responses, and face, voice, gesture, and mien as tools" (p. 231).

Nevertheless, true to the goals of the psychometric tradition, researchers quickly translated the abstract definitions of social intelligence into standardized laboratory instruments for measuring individual differences in social intelligence (for thorough reviews of research published before 2000, see Kihlstrom & Cantor, 2000; Landy, 2006; Taylor, 1990; Walker & Foley, 1973).

The first of these was the George Washington Social Intelligence Test (GWSIT; Hunt, 1928; Moss, 1931; Moss, Hunt, Omwake, & Ronning, 1927; for later editions, see Moss, Hunt, & Omwake, 1949; Moss, Hunt, Omwake, & Woodward, 1955). Like the Stanford-Binet Intelligence Test or WAIS, the GWSIT was composed of a number of subtests, which can be combined to yield an aggregate score. Four subtests – Judgment in Social Situations, Memory for Names and Faces, Observation of Human Behavior, and Recognition of the Mental States Behind Words – were employed in all editions of the GWSIT. Subtests of Facial Expression and Social Information subtests were included in early editions but dropped from later editions, and a Humor subtest was added.

Hunt (1928) originally validated the GWSIT through its correlations with adult occupational status, the number of extracurricular activities pursued by college students, and supervisor ratings of employees' ability to get along with people. However, some controversy ensued about whether social intelligence should be correlated with personality measures of sociability or extraversion. Most important, however, the GWSIT came under immediate criticism for its relatively high correlation with abstract intelligence. Thorndike and Stein (1937) concluded that the GWSIT "is so heavily loaded with ability to work with words and ideas, that differences in social intelligence tend to be swamped by differences in abstract intelligence" (p. 282).

The inability to discriminate between social intelligence and IQ, coupled with difficulties in selecting external criteria against which the scale could be validated, led to declining interest in the GWSIT, and indeed in the whole concept of social intelligence as a distinct intellectual entity. Spearman's g afforded no special place for social intelligence, of course; nor was social intelligence included, or even implied, in Thurstone's list of primary mental abilities.

Social Intelligence in Guilford's Structure of Intellect

After an initial burst of interest in the GWSIT, work on the assessment and correlates of social intelligence fell off sharply until the 1960s (Walker & Foley, 1973), when this line of research was revived within the context of Guilford's Structure of Intellect model of intelligence. Guilford postulated a system of at least 120 separate intellectual abilities, based on all possible combinations of five categories of operations (cognition, memory, divergent production, convergent production, and evaluation), with four categories of content (figural, symbolic, semantic, and behavioral) and six categories of products (units, classes, relations, systems, transformations, and implications). Within this more differentiated system, social intelligence is represented by the domain of behavioral operations. In contrast to its extensive work on semantic and figural content, Guilford's group addressed issues of behavioral content only very late in their program of research. Of the 30 facets of social intelligence predicted by the structure-of-intellect model (5 operations x 6 products), actual tests were devised for only six cognitive abilities (O'Sullivan et al., 1965; Hoepfner & O'Sullivan, 1969) and six divergent production abilities (Hendricks, Guilford, & Hoepfner, 1969).

O'Sullivan et al. (1965) defined the category of behavioral cognition as representing the "ability to judge people" (p. 5).
with respect to "feelings, motives, thoughts, intentions, attitudes, or other psychological dispositions which might affect an individual's social behavior" (O'Sullivan et al., p. 4). They made it clear that someone's ability to judge individual people was not the same as his or her comprehension of people in general, or "stereotypic understanding" (p. 5), and bore no a priori relation to one's ability to understand oneself. Apparently, these two aspects of social cognition lie outside the standard structure-of-intellect model.

In constructing their tests of behavioral cognition, O'Sullivan et al. (1965) assumed that "expressive behavior, more particularly facial expressions, vocal inflections, postures, and gestures, are the cues from which intentional states are inferred" (p. 6). While recognizing the value of assessing the ability to decode these cues in real-life contexts with real people serving as targets, economic constraints forced the investigators to rely on photographs, cartoons, drawings, and tape recordings (the cost of film was prohibitive); verbal materials were avoided wherever possible, presumably to avoid contamination of social intelligence by verbal abilities. Their study yielded six factors clearly interpretable as cognition of behavior, which were not contaminated by nonsocial semantic and spatial abilities. However, echoing earlier findings with the GWSIT, later studies found substantial correlations between IQ and scores on the individual Guilford subtests as well as various composite social intelligence scores (Riggio, Messamer, & Throckmorton, 1991; Shanley, Walker, & Foley, 1971). Still, Shanley et al. (1971) conceded that the correlations obtained were not strong enough to warrant Wechsler's assertion that social intelligence is nothing more than general intelligence applied in the social domain.

A later study by Chen and Michael (1993), employing more modern factor-analytic techniques, essentially confirmed these findings — although Snyder and Michael (1983) had earlier found significant correlations between some of these tests of social intelligence and tests of verbal and mathematical ability. A similar reanalysis of the O'Sullivan et al. (1965) data by Romney and Pyryt (1999) found that all the tests loaded on a single factor rather than the six independent factors predicted by Guilford's Structure of Intellect theory. In neither domain is there much evidence for the ability of any of these tests to predict external criteria of social intelligence.

Tests of the remaining three structure-of-intellect domains (memory, convergent production, and evaluation) had not been developed by the time the Guilford program came to a close. Hendricks et al. (1969) noted that "these constitute by far the greatest number of unknowns in the [Structure of Intellect] model" (p. 6). However, O'Sullivan et al. (1965) did sketch out how these abilities were defined. Convergent production in the behavioral domain was defined as "doing the right thing at the right time" (p. 5), and presumably might be tested...
by a knowledge of etiquette. Behavioral memory was defined as the ability to remember the social characteristics of people (e.g., names, faces, and personality traits), while behavioral evaluation was defined as the ability to judge the appropriateness of behavior.

Convergent and Discriminant Validity in Social Intelligence

Following the Guilford studies, a number of investigators continued the attempt to define social intelligence and determine its relation to general abstract intelligence. Most of these studies explicitly employed the logic of the multitrait-multimethod matrix (MTMM; Campbell & Fiske, 1959), employing multiple measures of social and nonsocial intelligence, and examining the convergent validity of alternative measures within each domain and their discriminant validity across domains (e.g., Sechrest & Jackson, 1961). For example, Day and his group showed that multiple measures of social insight and social intelligence were poorly correlated with academic intelligence (Jones and Day, 1997; Lee, Wong, Day, Maxwell, & Thorpe, 2000; Lee, Day, Meara, & Maxwell, 2002; Wong, Day, Maxwell, & Meara, 1995). Weis and Suss (2007) obtained similar results for measures of social understanding and social knowledge, but not for social memory.

Marlowe (1986) and his colleagues assembled a large battery of personality measures ostensibly tapping various aspects of social intelligence. Factor analysis of these instruments yielded five dimensions of social intelligence: interest and concern for other people, social performance skills, empathic ability, emotional expressiveness and sensitivity to others' emotional expressions, and social anxiety and lack of social self-efficacy and self-esteem. Factor scores on these dimensions of social intelligence were essentially unrelated to measures of verbal and abstract intelligence. In evaluating studies like this, however, note that the apparent independence of social and general intelligence may be at least partially an artifact of method variance. Unlike the GWSIT and the batteries of cognitive and divergent-production measures devised by the Guilford group, Marlowe's ostensible measures of social intelligence are all self-report scales, whereas his measures of verbal and abstract intelligence were the usual sorts of objective performance tests. The measurement of individual differences in social intelligence by means of self-report scales is a major departure from the tradition of intelligence testing, and it seems important to confirm Marlowe's findings using objective performance measures of the various facets of social intelligence.

The Prototype of Social Intelligence

Although social intelligence has proved difficult for psychometricians to operationalize, it does appear to play a major role in people's naïve, intuitive concepts of intelligence. Sternberg and his colleagues asked subjects to list the behaviors which they considered characteristic of intelligence, academic intelligence, everyday intelligence, and unintelligence; two additional groups of subjects rated each of 250 behaviors from the first list in terms of how "characteristic" each was of the ideal person possessing each of the three forms of intelligence (Sternberg, Conway, Ketron, & Bernstein, 1981). Factor analysis of ratings provided by laypeople yielded a factor of "social competence" in each context. Prototypical behaviors reflecting social competence were these:

Accepts others for what they are; admits mistakes; displays interest in the world at large; is on time for appointments; has social conscience; thinks before speaking and doing; displays curiosity; does not make snap judgments; makes fair judgments; assesses well the relevance of information to a problem at hand; is sensitive to other people's needs and desires; is frank and honest with self and others; and displays interest in the immediate environment.

Interestingly, a separate dimension of social competence did not consistently emerge...
in ratings made by a group of experts on intelligence. Rather, the experts' dimensions focused on verbal intelligence and problem-solving ability, with social competence expressly emerging only in the ratings of the ideal "practically intelligent" person. Perhaps these experts shared Wechsler's dismissive view of social intelligence.

Similar studies were conducted by Kosmitzki and John (1993), and by Schneider, Ackerman, and Kanfer (1996), and obtained similar results. In the Schneider et al. study, factor analysis revealed seven dimensions of social competence that were essentially uncorrelated with measures of quantitative and verbal/reasoning ability. On the basis of these findings, Schneider et al. concluded that "it is time to lay to rest any residual notions that social competence is a monolithic entity, or that it is just general intelligence applied to social situations" (p. 479). As with Marlowe's (1986) study, however, the reliance on self-report measures of social intelligence compromises this conclusion, which remains to be confirmed using objective performance measures of the various dimensions in the social domain.

Social intelligence played little role in Sternberg's early componential view of human intelligence (e.g., Sternberg, 1977), which was intended to focus on reasoning and problem-solving skills as represented by traditional intelligence tests. However, social intelligence is explicitly represented in Sternberg's more recent triarchic view of intelligence (e.g., Sternberg, 1988), according to which intelligence is composed of analytical, creative, and practical abilities. Practical intelligence is defined in terms of problem-solving in everyday contexts and explicitly includes social intelligence (Sternberg & Wagner, 1986). According to Sternberg, each type of intelligence reflects the operation of three different kinds of component processes: performance components, which solve problems in various domains; executive metacomponents, which plan and evaluate problem solving; and knowledge-acquisition components, by which the first two components are learned. For Sternberg, these abilities, and thus their underlying components, may well be somewhat independent of each other; but the actual relation among various intellectual abilities is an open, empirical question.

Answering this question, of course, requires that we have psychometrically adequate instruments for assessing social intelligence. This brings us back to our starting point - the question of how social intelligence is to be measured. Future investigators who wish to make the attempt might be well advised to begin with the intuitive concept of social intelligence held in the mind of the layperson. When Alfred Binet was given the task of devising an intelligence test for French schoolchildren, he began by examining the kinds of things that they were asked to do in school. If a new generation of psychometricians undertakes the task of assessing social intelligence, they might well begin by looking at how that construct is represented in the mind of real people engaged in the ordinary course of everyday living. After all, social intelligence is a social construct, not just an academic one.

The Development of Social Intelligence

While the psychometric research just reviewed has focused - though not quite exclusively - on normal adults, there is also a long-standing interest in social intelligence among developmental psychologists (for a review, see Greenspan & Love, 1997) - particularly among those psychologists concerned with the assessment, treatment, and rehabilitation of children (and adults) with developmental disorders such as mental retardation and autism.

Mental Retardation

Of course, social intelligence has always played a role in the assessment of mental retardation. This psychiatric diagnosis requires not only evidence of subnormal intellectual functioning (i.e., IQ < 70) but also demonstrated evidence of impairments in "communication, self-care, home living, social and interpersonal skills, use of
community resources, self-direction, functional academic skills, work, leisure, health, and safety" (American Psychiatric Association, 1994, p. 46). In other words, the diagnosis of mental retardation involves deficits in social as well as academic intelligence. Furthermore, the wording of the diagnostic criteria implies that social and academic intelligence are not highly correlated — it requires positive evidence of both forms of impairment, meaning that the presence of one cannot be inferred from the presence of the other.

While the conventional diagnostic criterion for mental retardation places primary emphasis on IQ and intellectual functioning, Greenspan and Love (1997) argued that it should emphasize social and practical intelligence instead. To this end, they proposed a hierarchical model of social intelligence. In this model, social intelligence consists of three components: social sensitivity, reflected in role-taking and social inference; social insight, including social comprehension, psychological insight, and moral judgment; and social communication, subsuming referential communication and social problem solving. Social intelligence, in turn, is only one component of adaptive intelligence (the others being conceptual intelligence and practical intelligence), which in turn joins physical competence and socioemotional adaptation (temperament and character) as the major dimensions of personal competence broadly construed. Greenspan and Love did not propose specific tests for any of these components of social intelligence but implied that they could be derived from experimental procedures used to study social cognition in general.

All this is well and good, but while the criterion for impaired intellectual functioning is clearly operationalized by an IQ threshold, there is as yet no standard by which impaired social functioning — impaired social intelligence — can be determined. The Vineland Social Maturity Scale (Doll, 1947) was an important step in this direction: This instrument yields aggregate scores of social age (analogous to mental age) and social quotient (by analogy to the intelligence quotient, calculated as social age divided by chronological age). The Vineland has been recently revised (Sparrow, Balla, & Cicchetti, 1984), but its adequacy as a measure of social intelligence is compromised by the fact that linguistic functions, motor skills, occupational skills, and self-care and self-direction are assessed as well as social relations. As an alternative, Taylor (1990) has proposed a semistructured Social Intelligence Interview covering such domains as social memory, moral development, recognition of and response to social cues, and social judgment. However, Taylor concedes that such an interview, being idiographically constructed to take account of the individual's particular social environment, cannot easily yield numerical scores by which individuals can be compared and ranked. More important than ranking individuals, from Taylor's point of view, is identifying areas of high and low functioning within various environments experienced by the individual, and determining the goodness of fit between the individual and the environments in which he or she lives.

Autism
Another group of developmental disabilities, autistic spectrum disorders, also invokes the concept of social intelligence. Kanner's (1943) classic description of autism portrays children who do not seem to be capable of engaging in normal social behavior or of maintaining normal social relationships, and the diagnostic criteria specified in the Diagnostic and Statistical Manual of Mental Disorders (DSM-IV; American Psychiatric Association, 1994) emphasize deficits in social relations: impairments in nonverbal behavior, failures to develop peer relationships, lack of spontaneous sharing and other aspects of social reciprocity; impairments in communication, including an inability to initiate or sustain conversations or social imitative play; and stereotyped patterns of behavior, including inflexibility in various behavioral routines. All of these features suggest that autism is characterized not just by social withdrawal and language
impairment but by a specific impairment in the abilities that underlie effective social interaction.

Specifically, it has been proposed that autistic children and adults lack a "theory of mind" (Wellman, 1990) by which they can attribute mental states to other people and reflect on their own mental lives (Baron-Cohen, 1995; Baron-Cohen et al., 1993; see also Tager-Flusberg, 2007). This hypothesis brought the problem of assessing social intelligence in disabled populations (including mental retardation as well as autism) directly in contact with a literature on the development of social cognition in normal children. Still, Bruner and Feldman (1993) have argued that deficits in social cognition, such as those seen in autism, are actually secondary to deficits in general cognitive functioning. The fundamental question endures: Is social cognition a separate faculty from nonsocial cognition? Is social intelligence anything different from general intelligence applied to the social domain?

Moral Reasoning

Another trend contributing to revived interest in social intelligence was the upsurge of interest in moral reasoning following the publication of Kohlberg's Piagetian theory of moral reasoning (e.g., Kohlberg, 1963). As Turiel (2006) notes, Piaget himself had viewed moral reasoning within the wider context of the child's knowledge and judgment of social relationships. So, just as Thorndike raised the question of how social intelligence related to academic intelligence, the Piaget-Kohlberg trend raised the question of how age differences in moral reasoning were related to social reasoning in general. One answer is that they do not relate much at all, because moral judgments are based on unconscious, intuitive processes that are based more on emotion than reason; in this view, the reasons we give for our judgments are little more than after-the-fact rationalizations (e.g., Greene, Sommerville, Nystrom, Darley, & Cohen, 2001; Haidt, 2001). Another approach is that moral reasoning, while obviously related to social reasoning and to reasoning in general, constitutes a separate domain of reasoning that might follow its own unique principles, developmental trajectory, and the like. This does not rule out a role for emotional processes, but it keeps social cognition at the center of the study of moral reasoning.

According to social-cognitive domain theory (Turiel, Killen, & Helwig, 1987; Smetana, 2006), morality is only one of several aspects of the social world about which children and adults acquire knowledge, and about which they engage in reasoning, judgment, and decision making. The "conventional" domain of social knowledge has to do with norms of social behavior that vary from one context to another. The "personal" domain has to do with our understanding of individual persons as psychological entities, including the attributions that we make for our own and others' behaviors, and our ability to infer meaning in social situations. The "moral" domain concerns universally applicable and obligatory concepts of harm, welfare, fairness, and rights. Most of the focus in social-cognitive domain theory has been on the moral domain and on children's developing the ability to understand moral concepts and render judgments of right and wrong. As a developmental theory, social-cognitive domain theory assumes that social-cognitive abilities are heterogeneous—that children's (and adults') abilities to reason about the social world and the trajectory of their development may well differ from one domain to another. But for present purposes, social-cognitive domain theory offers an alternative description of the domains in which children and adults apply distinctively social intelligence.

The Fall and Rise of Social Intelligence

Reviewing the literature published up to 1983, Landy (2006) characterized the search for social intelligence as "long, frustrating, and fruitless." Certainly it has been long and frustrating. Decade by decade, Landy traces
a record of "disappointing empirical results and substantial theoretical criticism" (p. 82). This record did not, however, diminish the enthusiasm of both basic and applied social psychologists for the concept of social intelligence. Landy’s review essentially stopped at 1983, and for good reason – for very soon events were to give social intelligence a new lease on life.

The Theory of Multiple Intelligences

The milestone event here was the theory of multiple intelligences proposed by Gardner (1983, 1993, 1999; Walters & Gardner, 1984). Unlike Spearman and other advocates of general intelligence, Gardner proposed that intelligence is not a unitary cognitive ability but that there are seven (and perhaps more) quite different kinds of intelligence, each hypothetically dissociable from the others, and each hypothetically associated with a different brain system. While most of these proposed intelligences (linguistic, logical-mathematical, spatial, musical, and bodily-kinesthetic) are "cognitive" abilities somewhat reminiscent of Thurstone’s primary mental abilities, two are explicitly personal and social in nature. Intrapersonal intelligence is the ability to gain access to one’s own internal emotional life, and interpersonal intelligence is the ability to notice and make distinctions among other individuals.

Although Gardner’s (1983) multiple intelligences are individual-differences constructs, in which some people or some diagnostic groups are assumed to have more of these abilities than others, Gardner does not rely on the traditional psychometric procedures – scale construction, factor analysis, multitrait-multimethod matrices, external validity coefficients, and so on – for documenting individual differences. Rather, his preferred method is a somewhat impressionistic analysis based on a convergence of signs provided by eight different lines of evidence – chief among which are isolation by brain damage, such that one form of intelligence can be selectively impaired, leaving other forms relatively unimpaired; and exceptional cases, individuals who possess extraordinary levels of ability in one domain against a background of normal or even impaired abilities in other domains (alternatively, a person may show extraordinarily low levels of ability in one domain against a background of normal or exceptionally high levels of ability in others). In addition, Gardner postulated several other signs suggesting different types of intelligence. Among these are identifiable core operations, coupled with experimental tasks that permit analysis of these core operations and psychometric tests that reveal individual differences in the ability to perform them. In addition to experimental and psychometric evidence, Gardner (1983) also assumes that qualitatively different forms of intelligence will show distinctive developmental histories, in terms of different developmental trajectories, from infancy through adolescence and adulthood to old age – and, perhaps, different evolutionary pathways as well. Finally, Gardner argues that each form of intelligence is encoded in a unique symbol system by which the ability in question can be manipulated and transmitted by a culture. For social intelligence, this is, at least in part, the language of traits – the thousands of terms that we use to describe each other’s mental states, but which do not apply to nonsentient objects (e.g., Allport & Odbert, 1937).

Gardner did not offer any new tests of social intelligence, nor did he provide compelling evidence that his multiple intelligences were really qualitatively different from each other. But in the context of a growing interest in cognitive neuroscience, and a growing inclination among psychologists to take neurobiological data as the gold standard of what is psychologically "real," claims for a neuropsychological dissociation between interpersonal intelligence and other forms of intelligence (e.g., that damage to the prefrontal cortex can selectively impair intrapersonal and interpersonal intelligence while leaving other abilities intact) gave new life to the notion that social intelligence can be distinguished from linguistic, logical-mathematical, and spatial intelligence.
Emotional Intelligence

The idea of social intelligence also got a boost from arguments in favor of individual differences in emotional intelligence, defined as “the ability to monitor one’s own and others’ feelings, to discriminate among them, and to use this information to guide one’s thinking and action” (Salovey & Mayer, 1990, p. 189; see also Mayer, Roberts, & Barsade, 2008; Mayer, Salovey, & Caruso, 2008; Salovey & Grewal, 2005). Emotional intelligence subsumes four component abilities: the ability to perceive emotions in oneself and others; to use emotions in the service of thinking and problem solving; to understand emotions and the relations among them; and to manage emotions in oneself and others. Emotional intelligence and social intelligence are not the same thing: There is nothing particularly social about snake phobia, and there are many aspects of social cognition where emotion plays little or no role. But, as the listing of the component abilities indicates, emotion is frequently evoked in a social context, so emotional intelligence and social intelligence do share a sort of family resemblance.

The idea of emotional intelligence was popularized by Daniel Goleman in a series of books (e.g., Goleman, 1995) and quickly caught on in both academic and applied psychology. A search of the PsycInfo database reveals that before 1990, only three items had the phrase “emotional intelligence” in their title or abstract, compared to 253 for “social intelligence.” For the decade 1990–1999, emotional intelligence had 77 such items, compared to 97 for social intelligence. But for the decade 2000–2009, emotional intelligence garnered 1,838 items (this is not a misprint), compared to 289 for social intelligence. Whereas Thorndike (1920) postulated social intelligence as the third member of a triad of intelligences, along with mechanical and abstract intelligence, it seems possible that, as suggested by Mayer, “Emotional intelligence could be...the replacement member of the triumvirate where social intelligence failed” (quoted in Goleman, 2006, p. 330).

This explosion of interest in emotional intelligence probably has much to do with what might be called the “affective counter-revolution” in psychology—the feeling that, since the cognitive revolution of the 1950s and 1960s, psychology had gone overboard in emphasizing epistemology and needed to pay more attention to feelings and desires. Certainly there is little reason to think that emotional intelligence is a clearer concept than social intelligence, or any easier to measure (Murphy, 2006). Whatever the reason, the upsurge of interest in emotional intelligence seems to have carried social intelligence along with it, so that we can look forward to a revival of research interest in this topic.

Social Neuroscience

All the more so, perhaps, now that Goleman (2006) has done for social intelligence what he did earlier for emotional intelligence. The premise of Goleman’s book is that rewarding social relationships are the key to happiness and health (roughly half of the book reviews research on the social psychology of health) and that the key to rewarding social relationships is social intelligence. Therefore, we need new tools for the assessment of individual differences in social intelligence, but—more to the point—we need educational programs that will enable people to learn how to increase their emotional intelligence and therefore to be happier and healthier, as well as wiser. Whereas Gardner had postulated a single social intelligence, or perhaps two (intrapersonal and interpersonal intelligence), Goleman argues for a highly differentiated set of social intelligences, grouped under two major headings. Social awareness (corresponding to the “self-awareness” domain of emotional intelligence) includes the ability to perceive other people’s internal mental states, to understand their feelings and thoughts, and to comprehend the demands of complex social situations. It includes modules dedicated to primal empathy, empathic accuracy, attunement, and social cognition. Social facility, or relationship management (corresponding to
the “self-management” domain), “builds on social awareness to allow smooth, effective interactions” (p. 84) and includes interaction synchrony, self-presentation, influence, and concern for others.

Goleman provocatively characterizes previous work on social intelligence as a “scientific backwater” (p. 330) in need of total rethinking. Taking a key from Gardner (1999; Walters & Gardner, 1984), who relied more on neuropsychology than on psychometrics, as well as the doctrine of modularity as it has developed in contemporary cognitive and social neuroscience (Fodor, 1983; Kihlstrom, in press), Goleman hypothesizes that social intelligence is mediated by an extensive network of neural modules, each dedicated to a particular aspect of social interaction. But more than that, Goleman asserts that “new neuroscientific findings have the potential to reinvigorate the social and behavioral sciences,” just as “the basic assumptions of economics... have been challenged by the emerging ‘neuroeconomics,’ which studies the brain during decision-making” (p. 324). Perhaps this prediction will come true. At the same time, however, it is a matter of historical fact that the real revolution in economics – the advances that garnered the Nobel Prizes – flowed from observational field studies (e.g., Simon, 1947, 1955) and paper-and-pencil questionnaires (Kahneman, 2003; Tversky & Kahneman, 1974).

But even if cognitive and social neuroscience do not prove to be the saviors of social intelligence (or of cognitive and social psychology in general), Goleman’s list of social-intelligence abilities is as good a place as any to start developing a new generation of instruments for assessing social intelligence.

The Knowledge View of Social Intelligence

Intelligence, as defined in standard dictionaries, has two rather different meanings. In its most familiar meaning, intelligence has to do with the individual’s ability to learn and reason. It is this meaning that underlies common psychometric notions such as intelligence testing, the intelligence quotient, and the like. As originally coined by E. L. Thorndike (1920) and pursued in the studies reviewed so far, social intelligence referred to the person’s ability to understand and manage other people, and to engage in adaptive social interactions. In its less common meaning, intelligence has to do with a body of information and knowledge. This second meaning is implicated in the titles of certain government organizations, such as the Central Intelligence Agency in the United States, and its British counterparts MI-5 and MI-6. Both meanings are invoked by the concept of social intelligence. But from Thorndike and Guilford to Gardner and Goleman, and beyond, social intelligence research and theory has been predicated almost exclusively on what might be called the “ability view.”

On the other hand, Cantor and Kihlstrom have offered an alternative “knowledge view” of social intelligence that refers simply to the individual’s fund of knowledge about the social world (Cantor & Kihlstrom, 1987, 1989; Kihlstrom & Cantor, 1989, 2000). In contrast to the ability view of social intelligence, the knowledge view does not conceptualize social intelligence as a trait, or group of traits, on which individuals can be compared and ranked on a dimension from low to high. Rather, the knowledge view of personality begins with the assumption that social behavior is intelligent – that it is mediated by what the person knows and believes to be the case, and by cognitive processes of perception, memory, reasoning, and problem solving, rather than being mediated by innate reflexes, conditioned responses, evolved genetic programs, and the like. Accordingly, the social intelligence view construes individual differences in social behavior – the public manifestations of personality – to be the product of individual differences in the knowledge that individuals bring to bear on their social interactions. Differences in social knowledge cause differences in social behavior, but it does not make sense to construct measures of social IQ. The important variable is not how much social intelligence the person...
but rather what social intelligence he or she possesses—what the individual knows about himself or herself, other people, the situations in which people encounter each other, and the behaviors they exchange when they are in them.

The Evolution of Cognitive Views of Personality

The social intelligence view of personality has its origins in the social-cognitive tradition of personality theory, in which construal and reasoning processes are central to issues of social adaptation. Thus, Kelly (1955) characterized people as naive scientists generating hypotheses about future interpersonal events based on a set of personal constructs concerning self, others, and the world at large. These constructs were idiographic with respect to both content and organization. Individuals might be ranked in terms of the complexity of their personal construct systems, but the important issue for Kelly was knowing what the individual's personal constructs were. Beyond complexity, the idiosyncratic nature of personal construct systems precluded much nomothetic comparison.

While Kelly's theory was somewhat iconoclastic, similar developments occurred in the evolution of social learning theories of personality. The initial formulation of social learning theory (Miller & Dollard, 1941), a combination of Freudian psychoanalysis and Hullian learning theory, held that personality was largely learned behavior and that understanding personality required understanding the social conditions under which it was acquired. However, the slow rise of cognitive theories of learning soon lent a cognitive flavor to social learning theory itself (Bandura & Walters, 1965; Rotter, 1954). Bandura (1973) argued for the acquisition of social knowledge through precept and example rather than the direct experience of rewards and punishment, and later (1986) he distinguished between the outcome expectancies emphasized by Rotter and expectancies of self-efficacy—the individual's judgment or belief concerning his or her ability to carry out the actions required to achieve control over the events in a situation. Although Rotter (1966) proposed an individual-differences measure of internal versus external locus of control, it would never occur to Bandura to propose a nomothetic instrument for measuring individual differences in generalized self-efficacy expectations. The important consideration is not whether an individual is relatively high or low in self-perceptions of competence, or even actual competence, but rather whether the person believes that he or she is competent to perform a particular behavior in some particular situation.

The immediate predecessor to the social-intelligence view of personality is Mischel's (1968, 1973) cognitive social-learning reconceptualization of personality. Although sometimes couched in behaviorist language, an emphasis on the subjective meaning of the situation marked even Mischel's 1968 theory as cognitive in nature. Since that time, Mischel has broadened his conceptualization of personality to include a wide variety of different constructs, some derived from the earlier work of Kelly, Rotter, Bandura, and others reflecting the importation into personality theory of concepts originating in the laboratory study of human cognitive processes. From Mischel's (1973) point of view, the most important product of cognitive development and social learning is the individual's repertoire of cognitive and behavioral construction competencies—the ability to engage in a wide variety of skilled, adaptive behaviors, including both overt action and covert mental activities. These construction competencies are as close as Mischel gets to the ability view of social (or, for that matter, nonsocial) intelligence.

On the other hand, the importance of perception and interpretation of events in Mischel's system calls for a second set of person variables, having to do with encoding strategies governing selective attention and personal constructs—Kellic-like categories that filter people's perceptions, memories, and expectations. Then, of course, following Rotter and Bandura, Mischel also stresses the role of stimulus-outcome,
behavior-outcome, and self-efficacy expectancies. Also in line with Rotter’s theory, Mischel notes that behavior will be governed by the subjective values associated with various outcomes. A final set of relevant variables consists of self-regulatory systems and plans, self-imposed goals and consequences that govern behavior in the absence (or in spite) of social monitors and external constraints. These variables are more in line with the knowledge view of social intelligence.

**Social Intelligence as Social Knowledge**

Following Winograd (1975) and Anderson (1976), Cantor and Kihlstrom (1987) classified social intelligence into two broad categories: declarative social knowledge, consisting of abstract concepts and specific memories, and procedural social knowledge, consisting of the rules, skills, and strategies by which the person manipulates and transforms declarative knowledge and translates knowledge into action. Following Tulving (1983), the individual’s fund of declarative social knowledge, in turn, can be broken down further into context-free semantic social knowledge about the social world in general and episodic social memory for the particular events and experiences that make up the person’s autobiographical record. Similarly, procedural knowledge can be subclassified in terms of cognitive and motoric social skills. These concepts, personal memories, interpretive rules, and action plans are the cognitive structures of personality. Together, they constitute the expertise that guides an individual’s approach to solving the problems of social life.

The cognitive architecture of social intelligence will be familiar from the literature on social cognition (for an overview, see Fiske & Taylor, 2007) — a literature that, interestingly, had its beginnings in early psychometric efforts to measure individual differences in social intelligence. For example, Vernon (1933) argued that one of the characteristics of a socially intelligent person was that he or she was a good judge of personality — a proposition that naturally led to inquiries into how people form impressions of personality. Research on person perception, in turn, led to an inquiry into the implicit theories of personality that provide the cognitive basis for impression formation. Specifically, Cronbach argued that one’s implicit theory of personality consisted of his or her knowledge of “the generalized Other” (1955, p. 179) — a mental list of the important dimensions of personality and estimates of the mean and variance of each dimension within the population, as well as estimates of the covariances among the several dimensions. Cronbach argued that this intuitive knowledge might be widely shared and could be acquired as a consequence of socialization and acculturation processes; but he also assumed that there would be individual and cultural differences in this knowledge, leading to individual and group differences in social behavior. Studies of impression formation, implicit personality theory, and later, causal attributions, social categories, scripts, and person memories provided the foundation for the social-intelligence analysis of personality structures and processes.

Following Kelly (1955) and Mischel (1973), Cantor and Kihlstrom (1987) accorded social concepts a central status as cognitive structures of personality. If the purpose of perception is action, and if every act of perception is an act of categorization (Bruner, 1957), the particular categories that organize people’s perception of the social world assume paramount importance in a cognitive analysis of personality. Some of these concepts concern the world of other people and the places we encounter them: knowledge of personality types, social groups, and social situations. Other concepts concern the intrapersonal world: the kinds of people we are, both in general and in particular classes of situations, and our theories of how we got that way. Some of these conceptual relations may be universal, and others may be highly consensual within the individual’s culture; but, as Kelly (1955) argued, some may be quite idiosyncratic. Regardless of whether they are shared with others, the individual’s conceptual
knowledge about the social world forms a major portion of his or her declarative social knowledge.

Another important set of declarative social knowledge structures represents the individual’s autobiographical memory (Kihlstrom, 2009). In the context of social intelligence, autobiographical memory includes a narrative of the person’s own actions and experiences, but it also includes what he or she has learned through direct and vicarious experience about the actions and experiences of specific other people, and the events that have transpired in particular situations. In addition, every piece of conscious autobiographical memory is linked to a mental representation of the self as the agent or patient of some action, or the stimulus or experience of some state (Kihlstrom, Beer, & Klein, 2002).

On the procedural side, a substantial portion of the social intelligence repertoire consists of interpretive rules for making sense of social experience: for inducing social categories and deducing category membership, making attributions of causality, inferring other people’s behavioral dispositions and emotional states, forming judgments of likability and responsibility, resolving cognitive dissonance, encoding and retrieving memories of our own and other people's behavior, predicting future events, and testing hypotheses about our social judgments. Some of these procedures are algorithmic in nature, while others may entail heuristic shortcuts (Nisbett & Ross, 1980). Some are enacted deliberately, while others may be evoked automatically, without much attention and cognitive effort on our part (Barth, 1997; but see also Kihlstrom, 2008). They are all part of our repertoire of procedural social knowledge.

Social Intelligence in Life Tasks

It should be clear that from the knowledge view of social intelligence, the assessment of social intelligence has quite a different character than it does from the ability view. From a psychometric point of view, the questions posed have answers that are right or wrong: Are smart people also friendly? How do you know when a person is happy or sad? Is it proper to laugh at a funeral? In this way, it is possible, at least in principle, to evaluate the accuracy of the person’s social knowledge and the effectiveness of his or her social behaviors. However, as noted at the outset, the social intelligence approach to personality abjures such rankings of people (Cantor, 2003). Rather than asking how socially intelligent a person is, compared to some norm, the social intelligence view of personality asks what social intelligence a person has, which he or she can use to guide his or her interpersonal behavior. In fact, the social intelligence approach to personality is less interested in assessing the individual’s repertoire of social intelligence than in seeking to understand the general cognitive structures and processes out of which individuality is constructed, how these develop over the life course of the individual, and how they play a role in ongoing social interactions. For this reason, Cantor and Kihlstrom (1987, 1989; Kihlstrom & Cantor, 1989) have not proposed any individual-differences measures by which the person’s social intelligence can be assessed.

Although the social intelligence view of personality diverges from the psychometric approach to social intelligence on the matter of assessment, it agrees with some contemporary psychometric views that intelligence is context-specific. Thus, in Sternberg’s (1988) triarchic theory, social intelligence is part of a larger repertoire of knowledge by which the person attempts to solve the practical problems encountered in the physical and social world. According to Cantor and Kihlstrom (1987), social intelligence is specifically geared to solving the problems of social life, and in particular managing the life tasks, current concerns (Klinger 1977), or personal projects (Little, 2005) that people select for themselves, or that other people impose on them from outside. Put another way, one’s social intelligence cannot be evaluated in the abstract but only with respect to the domains and contexts in which it is exhibited and the life tasks it is designed to serve. And even in this case, “adequacy”
cannot be judged from the viewpoint of the external observer but must come from the point of view of the particular person whose life tasks are in play.

Life tasks provide an integrative unit of analysis for studying the interaction between the person and the situation (Cantor & Fleeson, 1994; Cantor & Harlow, 1994; Cantor, Kemmelmeier, Basten, & Prentice, 2002; Cantor & Langston, 1989; Cantor & Malley, 1991). They may be explicit or implicit, abstract or circumscribed, universal or unique, enduring or stage-specific, rare or commonplace, poorly defined or well defined. Whatever their features, they give meaning to the individual's life and serve to organize his or her daily activities. They are defined from the subjective point of view of the individual: They are the tasks that the person perceives himself or herself as "working on and devoting energy to solving during a specified period in life" (Cantor & Kihlstrom, 1987, p. 168). First, life tasks are articulated by the individual as self-relevant, time-consuming, and meaningful. They provide a kind of organizing scheme for the individual's activities, and they are embedded in the individual's ongoing daily life. And they are responsive to the demands, structure, and constraints of the social environment in which the person lives. Life tasks are often willingly undertaken, but they can also be imposed on people from outside, and the ways in which they are approached may be constrained by sociocultural factors. Unlike the stage-structured views of Erikson and his popularizers, however, the social-intelligence view of personality does not propose that everyone at a particular age is engaged in the same sorts of life tasks. Instead, periods of transition, when the person is entering into new institutions, are precisely those times when individual differences in life tasks become most apparent.

The intelligent nature of life-task pursuit is clearly illustrated by the strategies deployed in its service. People often begin to comprehend the problem at hand by simulating a set of plausible outcomes, relating them to previous experiences stored in autobiographical memory. They also formulate specific plans for action and monitor their progress toward their goals, taking special note of environmental factors that stand in the way and determining whether the actual outcome meets their original expectations. Much of the cognitive activity in life-task problem solving involves forming causal attributions about outcomes and in surveying autobiographical memory for hints about how things might have gone differently. Particularly compelling evidence of the intelligent nature of life-task pursuit comes when, inevitably, plans go awry or some unforeseen event frustrates progress. Then, the person will map out a new path toward the goal or even choose a new goal compatible with a superordinate life task. Intelligence frees us from reflex, tropism, and instinct in social life as in nonsocial domains.

QUO VADIS?

It is possible that the concept of social intelligence has outlived its usefulness and will be supplanted by emotional intelligence. Alternatively, it is possible that neuroscientific analyses will give new life to the study of social intelligence, as they promise to do in other areas of psychology. On the other hand, perhaps we should abandon the "ability" model of social intelligence completely, along with its psychometric emphasis on developing instruments for the measuring of individual differences in social competencies of various sorts—tests intended to rank people, and on which some people must score high and others must score low. Instead of focusing on how people compare, perhaps we should focus on what people know, and how they bring their social intelligence to bear on their interactions with other people, on the tasks life has set for them, and on the tasks they have set for themselves. In this way, we would honor the primary idea of the cognitive view of social interaction, which is that interpersonal behavior is intelligent, based on what the individual knows and believes—no matter how smart or stupid it may appear to other people.


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