THE ROLE OF
EMOTIONAL INTELLIGENCE
IN THE LEADERSHIP DYNAMIC
THE ROLE OF EMOTIONAL INTELLIGENCE IN THE LEADERSHIP DYNAMIC

REQUIRED READING


B. Caruso, D.R. & Kornacki, S.A. Being Smart About Emotions. EI Skills Group


STUDY QUESTIONS

MULTIPLE CHOICE. CHOOSE ONE ANSWER FROM THE OPTIONS BELOW.

1. The Emotional Blueprint …
   a. Is a four-step problem solving process.
   b. Cannot be applied to most important interactions, decisions, or situations.
   c. Is the standard model for measuring emotional aptitude.
   d. Is used by psychologists to understand fundamental emotions.

2. People low in Emotional Intelligence (EI) tend to:
   a. Solve problems through passive behavior.
   b. Create problems through their individual behaviors.
   c. Contain limited knowledge of duties expected of them.
   d. Possess distorted information concerning emotional morality.
ESSAY QUESTIONS

3. Describe the three fundamental principles of Emotional Intelligence (EI).

4. List each of the four branches of the EI model. Explain how Emotional Intelligence could compliment the dichotomy of verbal/propositional and perceptual/organizational intelligence.

5. The pressures of the middle role make it is easy to lose sight of the distinction between being responsive and owning other people’s problems and conflicts. What other negative consequences can arise due to such pressures?

6. Why is leading up important?

7. What are the three overarching goals (as identified in Bolman & Gallos, pp. 177-200) that help to develop a productive relationship with your boss?
Emotional Intelligence
New Ability or Eclectic Traits?

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The notion that there is an emotional intelligence (EI) began as a tentative proposal (Mayer, DiPaolo, & Salovey, 1990; Salovey & Mayer, 1990). The original idea was that some individuals possess the ability to reason about and use emotions to enhance thought more effectively than others. Since 1990, EI has grown into a small industry of publication, testing, education, and consulting (Matthews, Roberts, & Zeidner, 2004; Matthews, Zeidner, & Roberts, 2002). Matthews et al. (2002) have outlined the dramatic growth of the psychological literature concerning an EI. Yet the apparent size of the field dwarfs what we regard as relevant scientific research in the area. In fact, one commentator recently argued that EI is an invalid concept in part because it is defined in too many ways (Locke, 2005, p. 425).

The original definition of EI conceptualized it as a set of interrelated abilities (Mayer & Salovey, 1997; Salovey & Mayer, 1990). Yet other investigators have described EI as an eclectic mix of traits, many dispositional, such as happiness, self-esteem, optimism, and self-management, rather than as ability based (Bar-On, 2004; Boyatzis & Sala, 2004; Petrides & Furnham, 2001; Tett, Fox, & Wang, 2005). This alternative approach to the concept—the use of the term to designate eclectic mixes of traits—has led to considerable confusion and misunderstandings as to what an EI is or should be (Daus & Ashkanasy, 2003; Gohm, 2004; Mayer, 2006). Many features, such as self-esteem, included in these models do not directly concern emotion or intelligence or their intersection (Matthews et al., 2004, p. 185). We agree with many of our colleagues who have noted that the term emotional intelligence is now employed to cover too many things—too many different traits, too many different concepts (Landy, 2005; Murphy & Sideman, 2006; Zeidner, Roberts, & Matthews, 2004). “These models,” wrote Daus and Ashkanasy (2003, pp. 69–70), “have done more harm than good regarding establishing emotional intelligence as a legitimate, empirical construct with incremental validity potential.” In this article, we explore these key criticisms of the field, contrasting what we believe to be a meaningful theory of EI with models describing it as a mix of traits.

Our principal claim is that a valid EI concept can be distinguished from other approaches. This valid conception of EI includes the ability to engage in sophisticated information processing about one’s own and others’ emotions and the ability to use this information as a guide to thinking and behavior. That is, individuals high in EI pay attention to, use, understand, and manage emotions, and these skills serve adaptive functions that potentially benefit themselves and others (Mayer, Salovey, & Caruso, 2004; Salovey & Grewal, 2005). As we use the term, emotional intelligence is an instance of a standard intelligence that can enrich the discussion of human capacities (Mayer, Salovey, Caruso, & Sitarenios, 2001).

The deeper question raised by Locke’s (2005) and others’ assertions that EI has become overgeneral is “How does one decide something ought or ought not to be called emotional intelligence?” To address this question, in the first section of this article, The Schism in the Field, we examine the central conception of EI and the current confusion in the field. In the second section, The Four-Branch

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Model of EI, we further describe our approach to EI. In the third section, The Significance of EI, we examine the various reasons why EI is important as a discrete variable. Finally, in the Discussion and Recommendations section, we consider how the term emotional intelligence has come to be so misused and the steps that can be taken to improve terminology and research in the area.

The Schism in the Field

Initial Ideas

Our initial view of EI was that it consists of a group of related mental abilities. For example, we first defined EI as “the ability to monitor one’s own and others’ feelings and emotions, to discriminate among them and to use this information to guide one’s thinking and actions” (Salovey & Mayer, 1990, p. 189). An empirical companion piece operationalized aspects of EI as an ability: Participants examined a set of colors, faces, and designs and had to identify each one’s emotional content (Mayer et al., 1990). In a subsequent editorial in the journal Intelligence, we discussed the difference between traits such as extraversion, self-confidence, and EI, noting, Although a trait such as extraversion may depend on social skill, or result in it, [it] is a . . . preference rather than an ability. Knowing what another person feels, in contrast, is a mental ability. Such knowledge may stem from g, or be somewhat independent of it. The way in which we have defined emotional intelligence—as involving a series of mental abilities—qualifies it as a form of intelligence. (Mayer & Salovey, 1993, p. 435)

Although we were clear about our ability conception, we acknowledge that our earliest model was, in some of its specifics, overly broad. That model, for example, included flexible planning and creative thinking as two skills involved in utilizing emotions (Salovey & Mayer, 1990, p. 190). Subsequent interpreters of our work, however, were instrumental to (what we regard as) unmooring the concept from its key terms. These interpreters appear to have confused what we thought of as expressions of EI with the ability itself. For example, we suggested that the emotionally intelligent person might be “a pleasure to be around” and that those lacking in EI might be prone to depression (Salovey & Mayer, 1990, p. 201). Elsewhere in these early writings, we noted that EI might be related to openness (Mayer & Salovey, 1993, p. 438).

External Factors

A journalistic rendering of EI created and also complicated the popular understanding of it. Goleman’s (1995) bestselling book Emotional Intelligence began with the early version of our EI model but mixed in many other personality traits including persistence, zeal, self-control, character as a whole, and other positive attributes. The book received extensive coverage in the press, including a cover story in Time magazine (Gibbs, 1995). Because the book included, in part, the theory we developed, some investigators wrongly believed that we endorsed this complex and, at times, haphazard composite of attributes as an interpretation of EI.

The journalistic version became the public face of EI and attracted further attention, in part, perhaps, owing to its extraordinary claims. Goleman (1995, p. 34) wrote of EI’s importance that “what data exist, suggest it can be as powerful, and at times more powerful, than IQ.” A few years later, Goleman (1998a, p. 94) remarked that “nearly 90% of the difference” between star performers at work and average ones was due to EI. Although these ideas appeared in trade books and magazine and newspaper articles, they influenced scientific articles as well. For example, one refereed journal article noted that “EI accounts for over 85% of outstanding performance in top leaders” and “EI—not IQ—predicts top performance” (Watkin, 2000, p. 89). Our own work never made such claims, and we actively critiqued them (Mayer, 1999; Mayer & Cobb, 2000; Mayer & Salovey, 1997; Mayer, Salovey, & Caruso, 2000). More recently, Goleman (2005, p. xiii) wrote that others who believed that EI predicts huge proportions of success had misunderstood his 1995 book.

The Advent of Mixed Models

With EI defined in the public mind as a variety of positive attributes, subsequent approaches continued to expand the concept. One defined EI quite broadly as, “an array of noncognitive capabilities, competencies, and skills that influence one’s ability to succeed in coping with environmental demands and pressures” (Bar-On, 1997, p. 14). Although the model included emotion-related qualities such as emotional self-awareness and empathy, into the mix were added many additional qualities, including reality testing, assertiveness, self-regard, and self-actualization. It was this mixing in of related and unrelated attributes that led us to call these mixed models of EI (Mayer et al., 2000). A second mixed model of EI included such qualities as...
The Four-Branch Model of EI

General Introduction to EI

Intelligence considered. It is possible to develop a coherent approach to the concept of EI. In order to describe an EI, we need first to define intelligence. From the beginning of intelligence theorizing and testing, debates have raged regarding not only the nature of intelligence but also how many intelligences exist (Neisser et al., 1996). However, even the fiercest of g theorists, those proposing that intelligence is best described as consisting of a single, general mental ability factor, allow for the existence of more specific ability factors (e.g., Carroll, 1993).

Intelligences can be divided up in different ways, for example, according to whether they address crystallized (memory-dependent) or fluid (process-dependent) abilities or, alternatively, according to the type of information that is their focus. The approach that divides intelligences into information areas, for example, yields a verbal/propositional intelligence that deals with words and logic and a spatial intelligence that deals with arranging and rotating objects in space, among others. Analogously, an EI would address (a) the capacity to reason with and about emotions and/or (b) the contribution of the emotions system to enhancing intelligence.

One longstanding grouping of intelligences divides them into verbal/propositional and perceptual/organizational areas (e.g., Kaufman, 2000). For decades, researchers have searched for an elusive third intelligence, believing that these two core intelligences by themselves were insufficient to describe individual differences in mental abilities (Walker & Foley, 1973; Wechsler, 1943). In 1920, Thorndike (p. 228) suggested the existence of a social intelligence, which involved “the ability to understand and manage men and women, boys and girls—to act wisely in human relations” (see also Bureau of Personnel Administration, 1930; Thorndike & Stein, 1937). Social intelligence began to be investigated, although it had vocal critics—whose criticisms may have impeded the field’s growth (Cronbach, 1960).

None of the proposed earlier intelligences, however, explicitly concerned an EI—reasoning validly about emotions and then using emotions in the reasoning process. By the early 1980s, there was a greater openness to the idea of specific (or multiple) intelligences (Gardner, 1983; Guilford, 1959; Sternberg, 1985), and at the same time, research in emotions was blossoming. Ekman (1973) and others had resurrected Darwin’s ideas that some types of emotional information—for example, human facial expressions of certain emotions—are universal; others examined how events lead to cognitive appraisals that in turn generate emotions (Dyer, 1983; Roseman, 1984; Scherer, 1993; Sloman & Croucher, 1981; Smith & Ellsworth, 1985).

Perhaps the elusive intelligence that could complement the traditional dichotomy of verbal/propositional and perceptual/organizational might be one of EI. An EI, after all, when compared with social intelligence, arguably could have a more distinct brain locus in the limbic system and its cortical projections (Damasio, 1994; LeDoux, 2000; Mac-
Emotions as signals. To describe convincingly what it means to reason with emotions, however, one must understand their informational content. Initially, some people express surprise that emotions convey information at all. Emotions often are viewed as irrational, will-o’-the-wisp states—even pathological in their arbitrariness (Young, 1943). Although this does describe the operation of emotion at times, it is far from a complete picture of a normal, functioning emotion system.

The meanings of specific emotion terms have been understood by philosophers for hundreds of years (Solomon, 2000) and have been refined by psychologists (Clore, Ortony, & Foss, 1987; Frijda, 1988; Ortony, Clore, & Collins, 1988; Roseman, 1984; Smith & Ellsworth, 1985). For example, happiness includes a signal of wanting to join with others; sadness is a signal of loss and of wanting comfort (or to be alone). Until recently, however, the significance of these terms was not always recognized. William James, for example, wrote that he would rather “read verbal descriptions of the shapes of the rocks on my New Hampshire farm” than a catalog of emotional meanings (James, 1892/1920, p. 375).

Such viewpoints began to change as the emotion system increasingly came to be seen as an evolved signaling system (Darwin, 1872/1998; Ekman, 1973). To be sure, some differences exist in expressing and reading emotions across cultures (Ekman, 1973; Elfenbein & Ambady, 2002a; Mesquita, 2001). At the same time, there is compelling evidence that many emotion meanings are in large part universal—and play a key role in helping people to understand their own and others’ actions (e.g., Dyer, 1983; Ekman, 1973).

By the 1990s, the significance of emotions and their meanings were better appreciated and were increasingly studied empirically. The functional role of emotions as communication signals became widely accepted, although further issues remain to be explored, such as the meanings of affective dimensions and how social influences may modify emotional expression (Averill, 1992; Barrett & Russell, 1999). Prominent undergraduate textbooks on emotion and research handbooks appeared (e.g., Carlson & Hatfield, 1992; Lazarus, 1991; Lewis & Haviland-Jones, 2000; Oatley & Jenkins, 1996; Strongman, 1996). Curricula designed expressly to teach emotional knowledge and literacy in the schools also have been developed (Brackett et al., 2007; Maurer, Brackett, & Plein, 2004; Wilson, Brackett, DeRosier, & Rivers, 2007).

**EI and the Four-Branch Model**

Emotional abilities can be thought of as falling along a continuum from those that are relatively lower level, in the sense of carrying out fundamental, discrete psychological functions, to those that are more developmentally complex and operate in the service of personal self-management and goals. Crucial among lower level, fundamental skills is the capacity to perceive emotions accurately. Higher level skills include, for example, the capacity to manage emotions properly. These skills can be arranged in a rough hierarchy of four branches (these branches refer to a tree-like diagram; Mayer & Salovey, 1997). These include the abilities to (a) perceive emotions in oneself and others accurately, (b) use emotions to facilitate thinking, (c) understand emotions, emotional language, and the signals conveyed by emotions, and (d) manage emotions so as to attain specific goals (Mayer & Salovey, 1997). These four branches are illustrated in Figure 1.

As an example, imagine a situation in which a young man visits a friend in the hospital who has been in a car accident. The first area of EI involves perceiving emotions. As the young man surveys the hospital room, the visiting relatives, and his unconscious friend, he may wonder, “What is each family member feeling?” Perhaps he perceives the worry and anxiety in their faces. Feelings are complex; also emerging from within him may be fear of his own mortality and a guilty relief—with a surge in energy—in response to being spared the accident himself and remaining unharmed.

The anxiety experienced by those around the young man redirects his attention from his own concerns to a focus on the well-being of his friend. Using energy from the fear and relief, he may feel motivated to talk with family members and find out how they are. This is an example of using emotion to facilitate thought.

To understand the emotions of the situation involves asking “What sorts of feelings emerge from such a situation?” and “How can these feelings be expected to change over time?” The accident is unexpected and severe, so the family’s shock is palpable. The young man may reason that one feature of such shock is its emergence from a rapid
LEADING INSTITUTIONAL UNITS AND PROGRAMS

Figure 1
The Four-Branch Model of Emotional Intelligence (Mayer & Salovey, 1997)

Note. Each branch describes a set of skills that make up overall emotional intelligence. Each branch has its own developmental trajectory, proceeding from relatively easy skills to more sophisticated ones. For example, Perceiving Emotions typically begins with the ability to perceive basic emotions in faces and voice tones and may progress to the accurate perception of emotional blends and to the detection of emotional microexpressions in the face.

Combination of surprise, sadness, and other mostly negative emotions (Goodrum, 2005).

Knowing this, and understanding these feelings, he may find that one possible course would be to engage in emotion management. After regulating his own emotions, perhaps by observing them, and thereby psychologically distancing himself from them, the young person may inquire of the parents how they came to learn of the accident and how they are holding up, what their days are like, and how he can be of assistance. Listening creates a caring environment while helping to clarify the disturbing, ongoing events.

Measuring EI

Ability measures of EI. Individual differences exist in each of these four processes. For example, some people are more accurate in initially perceiving how each individual in this story might be feeling, recognizing their feelings from faces and postures. Such individual differences can be measured. Each ability area of our four-branch model of EI can be operationalized formally as a set of to-be-solved problems, and test takers’ responses can be checked against a criterion of correctness. There are a number of ability-based scales of emotional perception (Archer, Costanzo, & Akert, 2001; Matsumoto, LeRoux, & Wilson-Cohn, 2000), emotional identification and understanding (Geher, Warner, & Brown, 2001), and emotional integrative complexity (Lane, Quinlan, Schwartz, Walker, & Zeitlin, 1990).

One measure that spans these areas is the Mayer-Salovey-Caruso Emotional Intelligence Test (MSCEIT). It consists of eight tasks, two for each of the four branches of our EI model (Mayer, Caruso, & Salovey, 1999; Mayer, Salovey, & Caruso, 2002; Mayer, Salovey, Caruso, & Sitarenios, 2003). For example, Perceiving Emotions is assessed by asking participants to identify emotions in pictures of faces, in one task, and in photographs and artwork, in another. As another example, one of the Understanding Emotions tasks employs items such as the following to gauge the capacity to reason with emotions:

What feeling, when intensified and coupled with a sense of injustice, is most likely to lead a person to experience anger? (a) frustration (b) guilt (c) melancholy (d) fatigue

Responses on the MSCEIT are scored with respect to their degree of correctness, as determined by their correspondence with the answers provided by a group of emotions experts (i.e., emotion researchers) or a normative sample of the general population. The best answer to the example question above is “(a) frustration” because, intensified, it leads to anger. This approach to scoring is somewhat similar to that used for certain subtests of classic intelligence tests such as Comprehension on the Wechsler Adult Intelligence Scale (Matarazzo, 1972; Wechsler, 1997). Criticisms of this scoring procedure also have been raised and are discussed in the next section.

Theory of the measurement of EI. There are two powerful theoretical reasons why only such a clearly focused, ability-based approach can best measure EI. First, intelligences most generally are defined as mental abilities, and measuring mental abilities involves asking test takers relevant questions and then evaluating their answers against a criterion of correctness (e.g., Carroll, 1993). The MSCEIT expert scoring system identified correct answers by using the pooled responses of 21 emotions researchers (Mayer et al., 2003).

In addition, according to the Standards for Educational and Psychological Testing, validity evidence is partly based on response processes. That is, “Theoretical . . . analyses of the response processes of test takers can provide evidence concerning the fit between the construct and the detailed nature of performance or response” (Amer-
Mixed models of EI, recall, are those that mix many attributes such as self-esteem and optimism into the ability model. These approaches typically measure EI through self-judgments, using items of the form “I understand my emotions well” (true/false). Such items draw information that is filtered through the self-concept of the test taker. Test takers, however, may or may not be able to understand the question, may or may not have received accurate feedback regarding the accuracy of their emotional perceptions before, and may, in their self-evaluations, be influenced by mood and tendencies toward self-aggrandizement. In direct tests, self-judgment-based response processes are not highly correlated with measured abilities of perceiving, using, understanding, and/or managing emotions (Brackett, Rivers, Shiffman, Lerner, & Salovey, 2006).

In addition, because mixed-model tests often include EI-irrelevant variables such as need for achievement and self-esteem, they assess the wrong concepts. Including other variables increases the degree of construct-irrelevant variance, which, as it rises, progressively invalidates a test (AERA, APA, & NCME, 1999). For example, test makers who add commonly studied personality traits (e.g., assertiveness, optimism) to their scales end up measuring classical definitions of personality traits rather than EI. Naming such a test one of “emotional intelligence” does not clarify this situation.

A test that focuses specifically on constructs relevant to EI and that evaluates responses as to their correctness possesses good evidence for its validity. A priori, it stands a much greater chance of measuring the concept successfully. This is a strictly conceptual issue. Nonetheless, there is substantial empirical evidence as well that ability tests such as the MSCEIT measure EI rather than other constructs, whereas other scales possess considerable construct-irrelevant variance—most specifically, an overlap with personality traits such as Neuroticism, Extraversion, and Conscientiousness (Brackett & Mayer, 2003; Newsome, Day, & Catano, 2000).

Key findings concerning EI and other psychological traits. If, as we claim, EI involves a unique source of variation that reflects a new intelligence, then it should exhibit some overlap with other intelligence scales. Studies indicate that EI, as measured by the MSCEIT and its precursor test the Multifactor Emotional Intelligence Scale (MEIS), correlates about .35 or so with verbal intelligence, and lower with perceptual/organizational IQ (Ciaramello, Chan, & Caputi, 2000; Mayer et al., 1999). Most of the overlap with verbal intelligence is accounted for by the third branch of the MSCEIT, Understanding Emotions.

EI also should be relatively independent of more traditional personality scales. To test this, one can correlate scales of EI with the Big Five personality traits. The Big Five traits are Extraversion–Introversion, Neuroticism–Stability, Openness–Closedness, Agreeableness–Disagreeableness, and Conscientiousness–Carelessness. Each of the Big Five traits can be divided into more specific traits. For example, one approach to the Big Five divides Extraversion–Introversion into such facets as gregariousness, assertiveness, and warmth (Costa & McCrae, 1992). The Big Five represents a good starting point for frequently studied personality dimensions, although some traits arguably are not measured by the Big Five (e.g., educated–uneducated, diplomatic–humorous, religious–unreligious; Saucier & Goldberg, 1998).

EI, defined here as an ability, should have minimal correlations with Big Five traits such as Extraversion or Neuroticism: Whether or not people are sociable or emotional, they can be smart about emotions. We did predict that EI would have a modest relation to Openness, as Openness often correlates with intelligences (Mayer & Salovey, 1993). Some representative correlations between the MSCEIT and the Big Five are shown in the first row of Table 1; the scale correlated .25 with Openness and .28 with Agreeableness, a trait that includes empathic and interpersonally sensitive content, and had lower correlations with the rest (Brackett & Mayer, 2003).

In contrast, mixed-model self-judgment scales labeled as measuring “emotional intelligence” appear to measure many variables that are relevant to motivations, social skills, and other areas of personality but not necessarily to an EI (Brackett & Mayer, 2003). Although variables such as optimism, self-control, and the like each have specific and uniquely important variance, as one measures many such traits together, they begin to reflect broader, more general traits of the sort found on the Big Five.

The relations of several mixed-model scales of EI to the NEO–Personality Inventory–Revised (NEO-PI-R; Costa & McCrae, 1992), a measure of the Big Five personality traits, are illustrated in the next four rows of Table 1. Notably, mixed-model scales correlate -.57 and -.70 with Neuroticism in two instances, and .47 and .68 with Extraversion in two others; their relations with Openness or even Agreeableness are somewhat lower. The overlap between mixed-model measures of EI and the NEO-PI-R becomes more striking when it is put into context. Consider a test explicitly designed to be parallel to the NEO-PI-R—the Big Five Inventory (Gosling, Rentfrow, & Swann, 2003). The Big Five Inventory’s correlations with the NEO-PI-R (see Table 1, bottom row) are often not higher than the correlations exhibited by the mixed-model EI scales. That is, the mixed-model EI scales overlap with the Big Five, sometimes as much as scales explicitly designed to measure the Big Five overlap with each other.
mixed-model scales drop off in association with traits such as Openness and Agreeableness, which arguably are most likely to be related to EI. Overall, the MSCEIT shows the greatest independence from the Big Five. The mixed-model scales’ high overlap, and their pattern of overlap, with the Big Five indicates that for such mixed-model measures, construct-irrelevant variance predominates.

A final issue concerning the mixed-model scales labeled “emotional intelligence” is that, unmoored from any constraints of the EI terminology, they sample across the domain of psychological traits in a haphazard fashion. As a consequence, at least some among the different self-judgment mixed-model EI scales in the area correlate at lower levels with one another than they do with the Big Five (Brackett & Mayer, 2003).

Of course, tests such as the MSCEIT must meet additional psychometric standards as well: reliability and structural, convergent, and discriminant validity among them. The split-half reliability of the overall EI score on the MSCEIT is .91, with reliabilities for the four branches ranging from the high .70s to the low .90s, and test–retest reliability is in the high .80s (Mayer et al., 2003). Confirmatory factor analyses indicate that both a one-factor model, indicating the presence of an overall EI, and four-factor models fit the data adequately, with other models ranging from the high .70s to the low .90s, and test–retest reliability is in the high .80s (Mayer et al., 2003).

One fly in the MSCEIT ointment concerns its convergent validity with other ability measures of specific EI skills. The convergence among ability measures of emotional perception such as the Japanese and Caucasian Brief Affect Recognition Test (JACBART; Matsumoto et al., 2000), the Diagnostic Analysis of Nonverbal Accuracy (DANVA; Nowicki & Duke, 1994), and the MSCEIT is low, with most published values falling between .00 and .30 (Mayer, Roberts, & Barsade, 2008). On the plus side, the subscales of the MSCEIT converge with one another (with correlations ranging from .16 to .58) despite using different response formats across branches (Mayer et al., 2003). MSCEIT scores also correlate with the ability to forecast one’s future emotions (Dunn, Brackett, Ashton-James, Schneiderman, & Salovey, 2007) and with the accurate perception of emotion in music (Resnicow, Salovey, & Repp, 2004). Nonetheless, this issue is unsettling and requires further understanding (Mayer et al., 2008).

Compared with the convergent validity evidence, the discriminant validity evidence is promising. The very modest correlations between MSCEIT scores and traits of the Big Five (and other personality measures), as well as traditional intelligences, strongly indicate that the ability to reason about emotions (i.e., EI) is a new construct. We earlier reported some MSCEIT–Big Five correlations; the MSCEIT total score correlates at similarly low levels, in the .20 to .35 range, with verbal intelligence and empathy (Mayer et al., 2004). A number of observers and commentators on the field have expressed reservations about whether such tests are adequate measures of EI and whether they predict important outcomes (e.g., Brody, 2004; Oatley, 2004; Zeidner, Matthews, & Roberts, 2001). The recent Annual Review of
The Significance of EI

General Considerations of the Validity of an EI Measure

We recognize that the MSCEIT has important limitations (see, e.g., our Recommendation 5 below), and yet we consider it among the better and most widely used of the valid measures available. As such, we focus on it in this section. The measurement issues surrounding EI are elements of broader questions: Is a measure such as the MSCEIT a valid assessment of EI? And can a test such as the MSCEIT account for new variance in important outcomes? In the mid-20th century, psychologists believed that such questions about validity could be answered on the basis of findings from key correlational and experimental studies of the test itself (e.g., Barley, 1962).

A more contemporary view, by contrast, considers the validity of a test a consequence of ongoing critical evaluation not only of the test itself but also of the theoretical framework supporting it and its embeddedness in broader conceptualizations. For example, a test’s measure of a concept depends on how the test author(s) define the concept, and that definition, in turn, will be reliant on other hypotheses and definitions, sometimes referred to as auxiliary theories. As summarized by G. T. Smith (2005), “In part for this reason, no theory is ever fully proved or disproved. At any given time, evidence tends to favor some theories or research programs, over others” (pp. 397–398).

Thus far, the measurement evidence tends to favor the ability-based EI approach described here over other research alternatives (such as dismissing EI or using mixed models). Valid approaches to EI can be divided into two central areas: specific-ability approaches, such as the study of accurate emotional perception, and integrative models of EI, one example of which is the four-branch model and the MSCEIT (see Mayer et al., 2008, for other measures). Drawing on revised criteria for test validity (AERA, APA, & NCME, 1999), a research team (including one of the present authors) surveyed such EI measures and concluded that tests based either on specific or integrative ability approaches to measurement exhibited generally good evidence for their validity. Tests based on mixed models, by contrast, did not adequately measure EI (Mayer et al., 2008).

Here, we elaborate more specifically on the validity—both general and incremental—of the MSCEIT measure and the four-branch approach, particularly as it relates to clinical and applied phenomena. Hunsley and Meyer (2003, p. 446; cf. McFall, 2005) noted, “The concept of incremental validity is essentially a simple and straightforward one: does a measure add to the prediction of a criterion above what can be predicted by other sources of data?” Secondarily, new measures can incrementally increase conceptual clarity and understanding within a field.

Journalistic accounts of EI raised unrealistic ideas such as that “90% of the difference” between star performers and other workers is attributable to “emotional intelligence factors” (Goleman, 1998a, p. 94) and that 85% of success could be attributed to EI (Watkin, 2000, p. 89)—claims that we have repeatedly pointed out are misleading and unsupported by research (e.g., Meyer, 1999; Mayer & Cobb, 2000; Meyer & Salovey, 1997; Mayer et al., 2000). EI is just one variable among many other mental abilities, cognitive styles, and socioemotional traits, and EI should predict important outcomes at levels usually found for other such psychological variables. Predictions from psychological measures to outcome variables for complex behavior are considered satisfactory in the .10 to .20 range, good in the .20 to .30 range, and still better when higher than .30 (Meyer, Finn, et al., 2001, p. 134). With this in mind, we examined studies in which EI predicted, or failed to predict, key outcomes; Table 2 reports instances where EI added incremental validity in a study—to indicate where EI may make its most important predictions.

EI and Understanding Feelings

Higher EI does appear to promote better attention to physical and mental processes relevant to clinical outcomes. For example, people higher in some EI skills are more accurate in detecting variations in their own heartbeat—an emotion-related physiological response (Schneider, Lyons, & Williams, 2005). Higher EI individuals also are better able to recognize and reason about the emotional consequences of events. For example, higher EI individuals are more accurate in affective forecasting—that is, in predicting how they will feel at some point in the future in response to an event, such as the outcome of a U.S. presidential election (Dunn et al., 2007).

EI and Subjective Symptoms

Abilities such as affective forecasting are important, for example, because psychotherapy patients from a wide diversity of backgrounds seek help with the hope of gaining insight into their feelings and motives (Evans, Acosta, & Yamamoto, 1986; Noble, Douglas, & Newman, 1999). If EI increases an individual’s attention to and accuracy about his or her feelings under various conditions, this could, in turn, minimize the individual’s psychiatric symptoms. David (2005) examined EI and psychiatric distress on the Symptom Checklist–90–Revised (SCL-90-R). The higher a person’s EI, the lower their reports of symptoms on the Positive Symptom Total ($r = - .38$), including, for example, fewer headaches and less trouble concentrating. Scores on the Symptom Distress Index, which measures symptom intensity, also declined as EI rose ($r = - .22$). After she controlled for the Big Five personality dimensions, EI still accounted for between 1% and 6% of the variance in SCL-90-R scales—supporting the incremental validity of EI (see Table 2). Other reports have indicated that, for example, those diagnosed with dysthymia have lower EI scores than other psychiatric groups (Lizeretti, Oberst, Chamarro, & Farriols, 2006).
Table 2
Selected Correlations From Several Studies Indicating That High Emotional Intelligence (EI) Is Associated With Better Social Relations, and Low EI With Deviant Behavior

<table>
<thead>
<tr>
<th>Study and criterion measure</th>
<th>Correlation with EI</th>
<th>Incremental relation or partial correlation with EI</th>
</tr>
</thead>
<tbody>
<tr>
<td>David (2005)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SCL-90-R Global Severity Index</td>
<td>-.31**</td>
<td>$R^2 = .03^{**}$</td>
</tr>
<tr>
<td>SCL-90-R Positive Symptom Total</td>
<td>-.38**</td>
<td>$R^2 = .06^{**}$</td>
</tr>
<tr>
<td>SCL-90-R Positive Symptom Distress</td>
<td>-.22**</td>
<td>$R^2 = .01$</td>
</tr>
<tr>
<td>Lopes, Salovey, Côté, &amp; Beers (2005)*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Peer nominations of interpersonal sensitivity</td>
<td>.29*</td>
<td></td>
</tr>
<tr>
<td>Peer nominations of interpersonal competence, dominance, and assertiveness</td>
<td>.05</td>
<td></td>
</tr>
<tr>
<td>Reciprocal friendship nominations</td>
<td>.23*</td>
<td></td>
</tr>
<tr>
<td>Rosete (2007)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Manager’s rating of achieving business outcomes</td>
<td>.26**</td>
<td>($3 = .24^{**}$</td>
</tr>
<tr>
<td>Manager’s effective interpersonal behaviors</td>
<td>.52**</td>
<td>($3 = .49^{**}$</td>
</tr>
<tr>
<td>Drug use (Amount of marijuana owned? Times used illegal drugs in last month?)</td>
<td>-.05</td>
<td>-.07</td>
</tr>
<tr>
<td>Social deviance (Number of physical fights in the last year? Number of times vandalized something?)</td>
<td>-.27***</td>
<td>-.20**</td>
</tr>
<tr>
<td>Illegal drug user (men only) (Times smoked marijuana in the last month? Money spent on drugs in last month?)</td>
<td>-.32</td>
<td>-.34**</td>
</tr>
<tr>
<td>Deviant behavior (men only) (Number of physical fights in last year? Times vandalized something last year?)</td>
<td>-.40</td>
<td>-.27</td>
</tr>
<tr>
<td>Trinidad &amp; Johnson (2002)*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Overall tobacco and alcohol use</td>
<td>-.19</td>
<td>$R^2 = .12^{***}$</td>
</tr>
</tbody>
</table>

Note. For more complete reporting, see the original reports. The criterion scale is the Mayer-Salovey-Caruso Emotional Intelligence Test (MSCEIT) unless otherwise noted. SCL-90-R = Symptom Checklist–90–Revised.

* Emotional Regulation scale (only) from the MSCEIT. ** Trinidad and Johnson (2002) used the Multifactor Emotional Intelligence Scale (MEIS; Mayer, Caruso, & Salovey, 1999), which was a precursor ability scale to the MSCEIT.

* $p < .05$. ** $p < .01$. *** $p < .001$. 

El and Understanding Social Relationships

Many psychotherapy clients hope to improve what have become problematic social behaviors and relationships (Evans et al., 1986; Noble et al., 1999). Research on EI indicates that people with high EI tend to be more socially competent, to have better quality relationships, and to be viewed as more interpersonally sensitive than those lower in EI (Brackett et al., 2006; Brackett, Warner, & Bosco, 2005; Lopes et al., 2004; Lopes, Salovey, Côté, & Beers, 2005; Lopes, Salovey, & Straus, 2003). Many associations between EI and these kinds of variables remain significant even after one controls for the influence of traditional personality variables and general intelligence on the measured outcome.

In one study of friendships, the relationship between EI and participants’ engagement in destructive responses to life events experienced by their friends was often significant, even after the researchers controlled for the Big Five, psychological well-being, empathy, life satisfaction, and Verbal SAT scores, but for men only (Brackett et al., 2006); MSCEIT correlations ranged from -.02 to -.33.

Although the findings described above were based on self-evaluated outcome criteria, similar findings have come from observer reports of the same individuals. For example, judges’ positive ratings of a videotaped “getting acquainted” social interaction were predicted by the MSCEIT, although again, only for men and not for women. Ratings of the ability to work well with others as well as overall judged social competence correlated .53 and .51, respectively, with EI. The authors noted that significant correlations remained after they partialed out the Big Five (Brackett et al., 2006).

Just as higher EI predicts better social outcomes, lower EI predicts interpersonal conflict and maladjustment. Teenagers lower in EI were rated as more aggressive than others and tended to engage in more confictual behavior than their higher EI peers in two small-sample studies (Mayer, Perkins, Caruso, & Salovey, 2001; Rubin, 1999). Lower EI also predicted greater drug and alcohol abuse. For example, levels of drug and alcohol use are related to lower EI among males (Brackett, Mayer, & Warner, 2004). Inner-city adolescents’ smoking is also related to their EI (Trinidad & Johnson, 2002).

El and Understanding Work Relationships

High EI correlates with better relationships in business settings as well. Managers higher in EI are better able to cultivate productive working relationships with others and
to demonstrate greater personal integrity according to multirater feedback (Rosete & Ciarrochi, 2005). EI also predicts the extent to which managers engage in behaviors that are supportive of the goals of the organization, according to the ratings of their supervisors (Côté & Miners, 2006). In one study, 38 manufacturing supervisors’ managerial performance was evaluated by their 1,258 employees. Total EI correlated .39 with these managerial performance ratings, with the strongest relations for the ability to perceive emotions and to use emotions (Kerr, Garvin, & Heaton, 2006).

Rosete (2007) studied 122 public service managers’ business and leadership performance and found that the MSCEIT correlated .26 with a supervisor’s appraisal of a manager’s effective business performance (“focuses strategically,” “ensures closure and delivers on intended results”) and .52 with an appraisal of a manager’s effective interpersonal behaviors (“guides, mentors, and develops people,” “someone who communicates clearly”). A hierarchical regression analysis predicting effective business performance indicated that EI was a significant predictor even after both an estimate of cognitive ability (16 PF Questionnaire, Scale B) and the Big Five were entered. A similar analysis for the interpersonal behavior rating showed that ability EI was also a significant predictor after cognitive ability and personality were statistically controlled (see Table 2).

A somewhat more complex relationship between EI and other variables was found by Côté and Miners (2006). In their study, employees with low cognitive intelligence (scoring one standard deviation or more below the sample mean on the Culture Fair Intelligence Test) exhibited better performance and citizenship behavior if they scored higher on the MSCEIT but not otherwise, whereas those with high cognitive intelligence (one standard deviation or more above the mean) showed no advantage of EI. In a small-sample study of employees in the finance division of an insurance company, higher MSCEIT scores were associated with positive ratings of work behavior by peers and supervisors as well as with recommendations for greater year-end salary increases (Lopes et al., 2006).

**Considerations of Incremental Validity**

Empirical evidence suggests that EI often contributes to incremental predictions of social effectiveness, over and above frequently employed measures of personality and intelligence, as exhibited in Table 2. The EI concept further incrementally increases our clarity in understanding why certain people—those who score higher on EI scales—are more successful in their relationships at home and at work. These higher EI individuals are better able to recognize and reason about their emotions, as well as about the emotional consequences of their decisions, and the emotions of others. Together, the empirical and conceptual increments indicate that EI is a useful variable for study.

**Discussion and Recommendations**

**EI as a Valid and Significant New Concept**

In this article, we have argued that there exists a valid and conceptually important new variable for investigators and practitioners. EI can be defined as an intelligence that explains important variance in an individual’s problem solving and social relationships. Yet the acceptance of the construct is threatened less by its critics, perhaps, than by those who are so enthusiastic about it as to apply the term indiscriminately to a variety of traditional personality variables (as pointed out by Daus & Ashkanasy, 2003, and Murphy & Sideman, 2006).

**Why Do Some Investigators and Practitioners Use the Term Emotional Intelligence Overly Broadly?**

**Expansion of the emotional and cognitive areas of thinking.** Why are traits such as the need for achievement, self-control, and social effectiveness (let alone character and leveraging diversity) sometimes referred to as EI? Perhaps one contributing cause is a lack of perspective on personality as a whole. Psychology needs good overviews of the central areas of mental function—models that define personality’s major areas. Yet few such overviews reached any level of currency or consensus in the psychology of the 1980s and 1990s. Hilgard (1980) indicated that psychology is thrown out of balance by the absence of such models. Indeed, the cognitive revolution of the 1960s and 1970s (Miller, 2003), followed by the intense interest in affective (emotional) sciences in the 1980s and 1990s (e.g., Barsade, Brief, & Spataro, 2003), contributed to a sense that cognitive and emotional systems were dominant aspects of the whole of personality. Many psychologists and other investigators began to refer to cognition, affect, and behavior, as though they provided complete coverage of the study of mental life (e.g., Thompson & Fine, 1999). In that impoverished context, the term emotional intelligence could be mistaken as a label for much of mental processing. In fact, however, the three-legged stool of cognition, affect, and behavior underemphasizes such areas of personality as representations of the self, motivation, and self-control processes; more comprehensive models have since been proposed (Mayer, 2003; 2005; McAdams & Pals, 2006).

**Reaction to the Big Five.** Also during the 1980s and 1990s, the most pervasive empirical work in personality psychology involved the study of the Big Five traits (Goldberg, 1993; Goldberg & Rosolack, 1994; John & Srivastava, 1999)—so much so that many people identified personality as merely, or essentially, the Big Five (Block, 1995). Yet that Big Five model dispossessed many traditionally important personality variables (Block, 1995; Mayer, 2005). There was a reaction against the Big Five model that had, during those years, so represented the field.

The advent of EI encouraged some to revisit a number of social and emotional traits and conceive of them as forming new models of social effectiveness and well-being. Furnham and Petrides included in their model self-judged adaptability, assertiveness, social competence, and stress management, among other traits, which were included under those authors’ label trait emotional intelligence (Petrides & Furnham, 2001, pp. 40, 47). Acknowledging the considerable overlap between their dimensions and those of...
the Big Five traits, they stated that “even if there were complete overlap between trait EI and the main personality dimensions . . . we believe that the theoretical and explanatory power of any psychological construct, including trait EI, is much more important than its incremental validity” (Petrides & Furnham, 2001, p. 54). Their research was recently used as part of the basis for the launch of yet another self-judgment scale with “emotional intelligence” in its name (Tett et al., 2005).

Although we agree that theoretical clarity is, at times, more important than incremental validity, we also believe in staying within scientific bounds in the use of such terms as emotion and intelligence—unless, of course, such terms require revision. Those investigators who wander outside the conceptual network, however, offer no rationale for revising such terms.

**The seduction of the emotional.** There is a broader cultural perspective, as well, that may promote such yearnings for a broader EI. Throughout history, philosophers and pundits alike have argued about whether to follow one’s “head” or one’s “heart.” Through much of this time, the “heads” have had the upper hand, so to speak. The Stoic tradition that thought trumps emotions is well embedded in Western philosophy. Still, at times, those with emotional urges have leapt forward to argue that the heart should be all-important. It appears that some of our writings have inspired a bit of an outbreak of that type.

And yet, viewing emotions as all-important would be a mistake, as it represents a false dichotomy (cf. Damasio, 1994). Relying on emotional characteristics, or on motives, or on any single part of personality would leave the individual unbalanced, from our perspective. A truly healthy individual has neither thought alone, nor emotion alone, but a functional integration among his or her major psychological processes. In this view, mental energy—a combination of motives and emotions—works with adaptive thinking and leads to effective behaviors, all the while being monitored, guided, and controlled, where necessary, by self-consciousness (Mayer, 2007). Being warm is not enough (although it may be pleasant); ditto exhibiting assertiveness. Rather, all its parts must come together for personality to work.

**Our viewpoint.** We agree with a number of observers of this area of study that the term emotional intelligence is used in too all-inclusive a fashion and in too many different ways (Landy, 2005; Locke, 2005; Matthews et al., 2004; Murphy, 2006). Referring in particular to the broadened definitions of EI, Locke (2005) remarked, “What does EI . . . not include?” (p. 428). We believe that there is a valid EI concept. However, we certainly agree that there is widespread misuse of the term to apply to concepts that simply are not concerned with emotion or intelligence or their intersection. The misuses of the term are, to us, invalid in that they attempt to overthrow or subvert the standard scientific language in psychology, with no apparent rationale for doing so. Other investigators similarly have pointed out that it is important to distinguish between valid and invalid uses of the concept (Daus & Ashkanasy, 2005; Gohm, 2004); to date, however, this message has not been heeded as we believe it should be.

**Recommendations**

The tradition of exaggerated tenderness in psychiatry and psychology reflects our “therapeutic attitude” and contrasts with that of scholars in fields like philosophy or law, where a dumb argument is called a dumb argument, and he who makes a dumb argument can expect to be slapped down by his peers. (Meehl, 1973, p. 228)

Those investigators interested in EI increasingly are asking for clarification of what is and is not legitimate work in the field. Murphy and Sideman (2006, p. 296) put it as a need to “succeed in separating the valid work from the hype.” One central concern of ours (and of others), here and elsewhere, has been to distinguish better from poorer approaches to EI.

From our perspective, renaming the Big Five and other classic personality traits as “emotional intelligence” reflects a lack of understanding of personality theory and undermines good scientific practice. It obscures the meaning of EI, and EI is an important enough new construct as to make that unfortunate and problematic. Only when researchers revert to using the term to refer to its legitimate meaning within the conceptual, scientific network can it be taken seriously (AERA, APA, & NCME, 1999; Cronbach & Meehl, 1955). There are a good number of researchers who understand this and who have used the term consistently in a meaningful fashion. As for the others, one of our reasons for writing this article is to convince them of the common sense of using the current personality terminology. On a very practical level, it is often impossible to evaluate a journal article purporting to study EI on the basis of keywords or the abstract: The study may examine well-being, assertiveness, self-perceptions of emotional abilities, or actual abilities.

We have provided an overview of EI in particular with an eye to helping distinguish EI from other more traditional personality variables. We have attempted to make it clearer than before where EI begins and ends and where other personality approaches pick up. Much of the mixed-model research on EI (sometimes called EQ), can be described by what Lakatos (1968, cited in G. T. Smith, 2005, p. 401) referred to as a “degenerating research program,” which consists of a series of defensive shifts in terminology and hypotheses “unlikely to yield new knowledge or understanding.”

We realize that the recommendations below may be obvious to many, even to those who have not read our article. To be as clear as we can be, however, we propose a set of simple recommendations that we believe will help to safeguard the field and foster its progress.

**Recommendation 1.** In our opinion, the journalistic popularizations of EI frequently employ inadequate and overly broad definitions of EI, implausible claims, and misunderstandings of the concepts and research more generally. We urge researchers and practitioners alike to refer to the scientific literature on emotions, intelligence, and...
emotional intelligence to guide their thinking. Simply put, researchers need to cite the research literature rather than journalistic renderings of scientific concepts, which serve a different purpose.

**Recommendation 2.** Referring to the diverse approaches to EI, one research group observed, “It is precisely because of this heterogeneity that we need clear conceptualization and definition” (Zeidner et al., 2004, p. 247). To restore clarity to the study of EI, we recommend that the term emotional intelligence be limited to abilities at the intersection between emotions and intelligence—specifically limited to the set of abilities involved in reasoning about emotions and using emotions to enhance reasoning.

**Recommendation 3.** We recommend that those interested in EI refocus on research relevant to the ability conception of EI. This includes studies using emotional knowledge measures, emotional facial recognition ability, levels of emotional awareness, emerging research on emotional self-regulation, and related areas (e.g., Elfenbein & Ambady, 2002b; Izard et al., 2001; Lane et al., 1990; Mayer et al., 2003; Nowicki & Mitchell, 1998).

**Recommendation 4.** We recommend that groups of widely studied personality traits, including motives such as the need for achievement, self-related concepts such as self-control, emotional traits such as happiness, and social styles such as assertiveness should be called what they are, rather than being mixed together in haphazard-seeming assortments and named emotional intelligence.

**Recommendation 5.** Much remains unknown about EI (Matthews, Zeidner, & Roberts, 2007). Our final recommendation is that, following the clearer terminology and conceptions above, good theorizing and research on EI continue until more is known about the concept and about human mental abilities more generally. Enough has been learned to indicate that EI is a promising area for study but also that significant gaps in knowledge remain. For example, there needs to be greater attention to issues of culture and gender and their impact on theories of EI and the measurement of EI. Further progress in the measurement of EI generally also is required. Applications of EI must be conducted with much greater attention to the research literature, be grounded in good theory, and reject outlandish claims.

The MSCEIT, we believe, is a useful, integrative approach to measuring EI. At the same time, we acknowledge that the test has important limitations: For example, the present version of the MSCEIT may be insufficient to validly assess a person’s accuracy in emotional perception (e.g., O’Sullivan & Ekman, 2004; Roberts et al., 2006). In addition, its factor structure remains open for discussion (Palmer et al., 2005; Rode et al., in press). There remains room for further understanding and substantial improvement in these and other areas.

Regarding the recommendations as a whole, we realize that there are many stakeholders in this area. A number of those stakeholders would naturally hope to continue using the term emotional intelligence as they have been. We hope that by highlighting the valid criticism of the overly broad uses of the term, and by recommending alternatives, we can apply some persuasion gradually to discourage such usage and make others aware of its problematic nature. That said, we continue to believe that EI is an important, newly described construct. It organizes a number of specific mental abilities having to do with identifying, understanding, managing, and using emotions; it is distinct from other constructs; it unifies a set of heretofore diverse psychological processes for examination; and it makes practical, though modest, predictions about key interpersonal behaviors.

In this article, we hope to have separated this EI from other constructs that may be important in their own right but are ill-labeled as emotional intelligence. By clarifying our model and discussing some of the confusion in the area, we hope to encourage researchers and practitioners to distinguish EI from other domains of study. Such distinctions will help pave the way for a healthier, more convincing, and better understood EI, one that best can serve the discipline of psychology and other fields.

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mance, interpersonal facilitation, affect and attitudes at work, and leadership potential. *Psychothema*, 18, 132–138.


Gut Feel, Smart Decision

The facts point in one direction. They are unassailable. The numbers add up. Yet, you have a bad feeling about the direction and the decision, although you can’t quite pin down a good, logical reason for it. What do you do? Ignore the bad feeling and choose the rational, logical path? That’s what we are trained to do: after all, we are professionals and we get paid to think and not to feel. But, have you ever said ‘yes’ based on the pure facts when your gut screamed ‘no’, only to find out that your instinct proved to be right? Perhaps it was a hiring decision where the credentials of the candidate were so impressive and as a result you chose to ignore the “bad feelings” you experienced during the screening process only to discover your reservations about your new hire to be confirmed weeks later. Certainly, acting on impulse, without the benefit of thought, can likewise lead to disastrous results. The blending of thinking with the data of feelings combines all available sources of data to optimally decide and to take effective action. Recognizing and subsequently acting on those feelings you experienced during the hiring process could have led you to ask further questions to explore during the interview with the candidate.

Emotional Intelligence

This adaptive blending of feeling with thinking is what is called emotional intelligence. Emotional intelligence is based on three, fundamental principles:

- emotions contain data;
- emotions can help you think; and,
- feelings are not always smart.

Emotions Contain Data. Have you ever been driving down a familiar road, almost on automatic pilot, not really paying much attention to the road ahead when the blast of a truck horn jolts you into awareness that you are inadvertently crossing the double yellow line? What is that emotion? Probably that of surprise. This emotion comes on suddenly, it automatically changes what you are paying attention to, your eyes dilate to take the scene in, and you are ready for quick action. Then, the emotion subsides and you continue safely on your journey. All emotions, like surprise, occur due to some sort of change in the environment around you, and therefore, are a valuable source of information or data about what is going on in you and other people and the world. To ignore the data of emotions can be a risky business.

Emotions Help You Think. How you feel influences what you think about and how you think. And if you can generate just the right feeling to match the task you are engaged in then you’ll have a better result. Not quite convinced? Well, would you ask your boss for a raise if he or she was in a really bad mood? Why not? Here’s another example to consider: does it matter what mood your team is in to generate lots of creative, new ideas? There is considerable scientific research that supports the notion that feelings and thought are deeply linked. Knowing these rules, and being able to generate the right mood at the right time is both difficult and intelligent.

Feelings Are Not Always Smart. We have had days when we – or maybe a friend – wakes up on the wrong side of the bed, and this negative mood filters the experience of the morning. Feelings arise for several reasons: they can be the result of an emotion-causing event, and so, need to be attended to. Or, feelings can be the result of a mood which has no identifiable cause and is not a signal or data about the
world. So being emotionally intelligent also means that you separate the noise of moods from the signal of emotional data.

You probably have heard of emotional intelligence because you read, or heard of, a best-selling book by that title published in 1995. (Since then, the book’s author, Daniel Goleman, has published two other books and several articles on EI). What you may not realize is that the EI concept was first developed by two academic psychologists – Peter Salovey and Jack Mayer - in 1990. EI has come to mean many different things since it entered the vocabulary of pop-culture, and unfortunately, it is often equated with anything that is not IQ. That’s why you see so many programs that years ago would be called competency modeling, communication skills or conflict resolution workshops labeled as emotional intelligence seminars, or usually, an EQ course. But there is real science behind the pop term, just as there is a real intelligence behind emotions. Let’s turn our attention to this unique and practical approach to emotional intelligence.

The original, intelligence-based model of EI consists of four, related abilities:

- **Identify** emotions accurately.
- **Use** emotions to help you think.
- **Understand** emotions and their causes.
- **Manage** emotions to make optimal decisions.

The first part of EI is the ability to accurately identify emotions in yourself, in others, and the environment around you. Next comes the ability to generate and then use emotions to help you think and reason. Third is the ability to understand the causes of emotions and how they change over time as different events unfold. Finally, the fourth ability allows you to stay open to the underlying data of emotions and go with or set aside the feelings in order to take optimal action.

**Emotional Blueprint**

We have taken these four interrelated abilities and put them together to create what we call an Emotional Blueprint. The Emotional Blueprint is a four-step problem-solving process that can be applied to almost any important interaction, decision or situation. Let’s go back to the bad-mood boss for an example:

- You first identify that your boss is in a negative mood (Identify Emotions).
- You realize that as a result, he is very unlikely to be open to a discussion of your raise (Use Emotions).
- You understand that he is in a bad mood, and wisely attribute it to his overall pattern of ups and downs (Understand Emotions).
- You manage your emotions by taking the frustration and leverage its power to polish your pitch for the next day (Manage Emotions).

That’s a simple example, but let’s make it more complex, and perhaps, more satisfying. In this case, you identify your boss’s mood, but also identify your strong need to have that discussion. Feeling interested, you generate a few good ideas to try out. But you also generate a feeling that is similar to the one your boss is experiencing in order to better figure out his perspective. This is a great move on your part because it helps you to understand that your boss will go nuts if you walk in and ask for that well-deserved raise. So you generate several emotional what-if analyses, predicting his reaction to various alternative actions. You decide on a course of action, and engage your boss in a conversation designed to manage his mood so that he ‘snaps out of it’ and is better able to understand your point of view and to feel for you. At the same time, you monitor your emotions in order to be prepared for changes in your boss, in you or in the environment around you.
Measuring EI

These are examples of emotional intelligence abilities that are strong and well-developed. Not everyone is as gifted in this arena. But the biggest challenge in EI is not that someone is lower in EI than others, but that we usually don’t know it. That’s because people in general are really bad at estimating their skills, intelligence and especially, their level of emotional intelligence. If we can’t estimate our EI skills, then what about other people, through the use of, for instance, a 360? While 360’s are extremely popular and useful, we also know that they are poor predictors of a person’s emotional intelligence. (Could you imagine using a 360 or self assessment tool to measure IQ as part of a hiring or leadership assessment process?) However, emotional intelligence can be measured objectively just as IQ is measured. Rather than ask you whether you are good at, say identifying emotions, or asking others whether you identify emotions, an EI ability test shows you a picture of a person feeling a certain way, and then asks you to guess how that person is feeling.

IQ Test for Emotions. The major ability test of EI is called the MSCEIT, which stands for the Mayer, Salovey, Caruso Emotional Intelligence Test. It takes about 30 minutes to complete and is predictive of a variety of important outcomes at work and life. However, this measure of EI, and EI generally speaking, is but one of many important components in our success. We still need plain old-fashioned IQ, technical skills, and many other traits to be successful in various roles in life.

Teaching EI

Learning Emotional Skills. One of the fundamental pop-culture beliefs about EI is that EI is learned whereas IQ is fixed. As far as we can determine, there simply is not a good answer to the question of whether EI can be increased or not. At the same time, the skills of EI, like any skills, can be acquired. A person who is not good at identifying emotions can be taught which facial expressions indicate which emotions. Someone who lacks a solid emotional understanding can acquire a more sophisticated emotional vocabulary.

Teaching the Smart Way. Effective training of EI takes a multi-method approach, and needs to include experiential components along with intellectual components. Practice in your own environment is essential to being able to take your newly-defined skills and apply them to your own, unique situations. One bit of good news regarding the teaching of EI is that group training is both effective and cost-effective. The reason is that most human emotions have a strong interpersonal component to them. Practicing in a group, therefore, gives you the cues you’ll need to learn emotional abilities.

These Are Hard Skills. Training and development is not optional when it has to do with compliance-related issues or critical technical skills. When the accounting software is updated, the accounting department is trained on the in’s and out’s of the new system. When a government body issues major changes to industry regulations, compliance training is not an option. Soft skill training is a different story: it is dependent upon discretionary budget dollars. However, when we define, measure and train EI as an intelligence, it becomes hard skill training, with hard metrics, hard training and hard outcomes. EI is not an option: it provides you with the data that you need to survive and ultimately thrive in any environment.

Being Smart About Emotions

All good decisions, and all effective actions, are the result of thinking and feeling. Emotional intelligence is all about leveraging the data of emotions. Emotional intelligence can be defined as an intelligence, it can be objectively measured, and its skills can be taught.

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The effective leader: Understanding and applying emotional intelligence

By John D. Mayer and David Caruso

Emotional intelligence can be misunderstood and misrepresented. But the bottom line is that the manager who can think about emotions accurately and clearly may often be better able to anticipate, cope with, and effectively manage change.

By John D. Mayer and David Caruso

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Emotional information plays a critical role in our working lives since the relationships we form are governed by rules of behaviour - of cooperation and dominance, among others - that are triggered by our emotions. Being able to understand this information, and its impact on personnel and the organization, is what makes an individual, at least in part, emotionally intelligent. Not surprisingly, then, business leaders who can "embrace the emotional side of an organization will infuse strength and meaning into management structures, and bring them to life." (Barach, J.A., and Eckhardt, D.R., Leadership and The Job Of the Executive, Quorum Books, Westport, Connecticut, 1996). In brief, leaders who can use their feelings and their knowledge of them constructively will have certain advantages over those who cannot. In this article, I will discuss how leaders can enhance their understanding of the role and impact of emotions.

The concept of emotional intelligence

Before the 1990s, EI had been an overlooked part of human nature - recognized intuitively sometimes, but not examined according to rigorous, scientific criteria.

The new scientific idea behind EI is that human beings process emotional information; they comprehend and utilize emotional information about social relationships. This idea was launched in two 1990 scientific articles by Peter Salovey and myself. Daniel Goleman's successful popularization of those early articles on emotional intelligence, and the related work of many other scientists, led to a great deal of popular discussion of the idea. This popular notion of EI as anything but IQ has created a new management fad. Unfortunately, the faddish appeal of emotional intelligence has encouraged many people engaged in otherwise legitimate business consultation to include a wide variety of approaches and concepts under the umbrella of emotional intelligence.

We believe in a definition of EI that has been developed after many years of scientific study and real-world experience. To explain our definition, it helps to begin with the two terms that make it up. The terms - emotion and intelligence - have specific, generally agreed upon scientific meanings that indicate the possible ways they can be used together. Emotions such as happiness, sadness, anger, and fear refer to feelings that signal information about relationships. For example, happiness signals harmonious relationships, whereas fear signals being threatened. Intelligence refers to the capacity to carry out abstract reasoning,
recognize patterns, and compare and contrast. Emotional intelligence, then, refers to the capacity to understand and explain emotions, on the one hand, and of emotions to enhance thought, on the other.

Emotional intelligence in the workplace: A case study

The capacity to reason with and about emotion is frequently important in management and leadership. Consider the case of Jerry Taksic (this and other names have been changed).

Jerry was a well-regarded operations manager at a New York City office of Merrill Lynch. Several years ago, he supervised the move of some in his group from their offices in the city across the river to an office park in Jersey City. The move was seemingly welcomed by the staff, most of who lived on the other side of the river. The move would dramatically cut down their commuting time and reduce their tax bills. Jerry handled this project with his usual meticulousness and concern. He worked with the designers and the architects, as well as building management, to ensure a smooth transition. Jerry never expected perfection, and perfection was not to be realized. Soon after the move, he fielded a phone call at his downtown office from Eddie Fontaine, the group manager at the Jersey City location. Eddie reported that his group had become concerned that they were working in a "sick" building, because a number of employees were suffering from respiratory problems. Although Eddie made light of their concerns, Jerry perceived concern in the group and began to investigate the situation. He called in a heating, ventilation, and air conditioning (HVAC) team, and it, along with environmental engineers, were dispatched to the site. They inventoried the physical plant, and shortly thereafter, filed their report.

Jerry and Eddie reviewed the report together: The HVAC team could not detect any problem with the building. Jerry appreciated that Eddie and the group might be feeling somewhat overwhelmed by the move, as well as somewhat isolated and cut-off from the rest of the team's work. Given the context, Jerry supported his group leader, complimented him on his general expertise, and let the matter drop. For the time being, Jerry was handling the emotions of his team effectively. Shortly thereafter, however, a second situation arose concerning parking problems. Ever the problem-solver, Jerry personally intervened with the building management to resolve the situation to his staff's satisfaction. As with the building ventilation problem, this was a time-consuming issue that detracted from the primary mission of both Jerry and his group. Jerry's supervisor began to become concerned about the group's apparent lack of focus and lowered productivity. When the supervisor asked Jerry if intervening in such problems was a good use of his time, Jerry replied, "That's my job. I solve problems." Yet another such problem arose a few days later, however, and Jerry's patience began to wear thin.

Case analysis according to the EI Ability Model

Jerry was facing a somewhat typical work issue. He was a generally competent manager who implemented a change (in this case, a move), and was confronted by a series of at-work issues and problems by the team undergoing the change. Jerry's issues happened to come to light because at about that time, he was referred for executive coaching by the division president, who worried that Jerry's team's performance was suffering. There are many different ways to analyze a case, of course. One might speak in terms of motivating the workforce to return to work, and look at the incentives surrounding the move and the incentives to complain about it. Or, one might speak in terms of setting boundaries and imposing penalties for those who are disrupting morale, or about treating employees like customers and making them happy. The EI analysis of Jerry's situation begins, as it does in most cases, with an appreciation of the fact that both the technical and emotional aspects of situations are closely intertwined. This means that something that looks technical may become emotional, and something that seems emotional can become technical. For example, in the present case, each of the problems raised by the satellite group -- sick buildings, parking, and other matters, were real technical...
issues. The string of issues together, however, suggested an emotional component: that the team's move had triggered some negative or worried feelings.

Jerry's handling of the initial, sick-building problem seemed judicious. He could, first of all, have missed the emotional concerns, if he were poor at perceiving emotions, or ignored them, if he didn't care.

Alternatively, he could have focussed solely on the emotional components, and ignored the technical issues of a real, possible, health risk. He did well, however, by attending to the feelings involved and intervening by investigating the building condition with an HVAC team.

His reaction to the parking problems was a bit less clear in its effectiveness. His perception of the emotions of his team - that parking issues were of concern -- was no doubt accurate. His understanding that if the problem was not dealt with it could get worse was also correct. Issues remained, however, and morale and productivity appeared to be suffering. To gain a better comprehension of the problem at this stage, it helps to learn a bit more about emotional intelligence.

Understanding Emotional Intelligence

The Mayer-Salovey Four-Branch model of emotional intelligence states that there are four branches of skills that are related to EI. These four branches and some of their interrelationships are shown in the diagram below.

The first two branches, Perception, and Facilitation, are termed "experiential EI," because they relate most closely to feelings. They involve, first, the capacity to perceive emotions in others accurately, and, second, the ability to use emotions to enhance how we think. When Jerry perceived concerns and anxieties in his team, he accurately perceived emotions among those around him. When he (presumably) used his own emotions to motivate his response to those concerns, he was effectively using his emotions to facilitate his thoughts and actions.

The third and fourth areas of EI skills are termed "strategic EI" because they pertain to calculating and planning with information about emotions. The third area, Understanding Emotions, involves knowing how emotions change, in and of themselves, as well as how they will change people and their behaviours over time.

The fourth area, Emotional Management, focuses on how to integrate logic and emotion for effective decision-making. These four skill areas are related to one another, but they are functionally distinct as well. We know this from our research in ability-testing of EI, which has accompanied the scientific theory.

Our current test of EI is called the Mayer-Salovey-Caruso Emotional Intelligence Test, or MSCEIT. Jerry had taken the MSCEIT during the early portion of his executive coaching. The MSCEIT, like the Mayer-Salovey model upon which it is based, promotes a distinct and well-defined approach to studying EI. Rather than having people evaluate themselves (self-report method), or having others evaluate them (360 method), the MSCEIT is an ability test and asks people to solve emotion problems. For example, to assess Emotional Perception, the MSCEIT includes a task in which test-takers must identify emotions in faces and pictures. To assess Facilitating Thought, the MSCEIT includes a task in which test-takers must identify emotions in faces and pictures. To assess Emotional Management, the MSCEIT includes questions about emotional vocabulary, how emotions blend together, and how emotions change over time.
participants are asked to identify the best course of action to improve a feeling.

In Jerry’s case, the results of the MSCEIT confirmed and clarified the issues involved in his leadership at that point in time. Jerry’s scores on the Perceiving, Facilitating, and Understanding subscales were superb. That was no surprise: Jerry had accurately perceived his own, and Eddie Fontaine’s, frustration and concern about the people on their team. He perceived that his group in Jersey City felt isolated and cut off from the rest of his team members (Perceiving Emotion). Jerry had used those feelings to focus on the immediate issues at hand: the details of the building, the parking, and so forth (Facilitating Thought). He understood the move could make them more than a little angry with him “for leaving them.” He further understood that when people felt that way, their progression from irritation to frustration and then to anger, posed an enormous threat to the group's productivity and cohesiveness (Understanding Emotion).

Jerry's Emotional Management score, by contrast, was his lowest score on the MSCEIT. When Jerry looked at the diagram of the model and saw the profile of his scores, he had an "Aha!" experience - almost as if a cartoon light bulb had flickered on above his head. He realized that he had perceived and seen everything that was going on in his team, and yet, he had been unable to manage the emotions going on. Although Jerry knew full well that the real problem was his teams' feelings about the move, he had wrongly focused on the building, parking, and other concrete issues. When the coach and him discussed Emotional Management, Jerry smiled, nodded his head, and realized he needed to manage people's feelings, not the building and parking. It was time to identify and to solve the real problem, but Jerry was caught up in feelings of guilt and ineffectiveness. Such feelings may be useful in helping us to focus on details, but in this case, Jerry needed to engage in idea generation and inductive reasoning. Such creative thought processes are best facilitated by positive moods. His coach reminisced with Jerry about his many accomplishments and created a new tone for the meeting (displaying the use of Facilitating Thought). That brought Jerry out of his self-focused mood to adopt a more open, receptive point of view.

After more than hour of such thinking, Jerry decided to move his office across the river two days each week. He would alternate the location of staff meetings. Jerry planned on having a "Welcome to Jersey!" housewarming party. The plan was gradually put into place. The complaints decreased and dwindled, productivity recovered. Jerry himself was not "cured": He still had a way of looking at the individual problems rather than the group of them together, and he needed to constantly remind himself to go beyond the facts and the logic of such situations when he managed them, to directly address the underlying feelings and emotions. An ability to address such concerns is, after all, one of the essentials of effective leadership.

Findings and claims about EI

The ability model of EI presented here is based on a careful theoretical development, coupled with empirical research. As already noted, once the popularized use of the term EI became unmoored from the basic meanings of emotion and intelligence, nearly any quality could be - and has been - referred to as Emotional Intelligence. Regrettably, almost any claim can be made about EI if the term is not clearly defined, since almost any research can be said to pertain to it. Unfortunately, many irresponsible claims have been made about the topic in various popularizations. These claims refer both to the size of the EI effect (e.g., "twice as important as IQ") and the areas of the EI effect (e.g., "virtually any area of life"). Our own position is much different: That EI is an important capability, but one that coexists with many other important strengths and weaknesses, and
that it affects some areas more than others.

One positive outcome of the popularizations of EI has been the enormous interest in research in the area. A growing body of literature examines the MSCEIT and its findings. These findings suggest that people high in EI form strong relations with others and have reliable support networks. Other people come to help these individuals in times of need. By contrast, people low in EI are socially perplexed, and are relatively more prone to drug and alcohol use, and to using aggressive and violent behaviour to solve problems. It is important to add that the vast majority of low EI scorers will not suffer from these more serious difficulties.

Empirical findings about leadership are only just being made public. Leaders who are high in EI may be better equipped to develop stronger teams, and to communicate more effectively with others. People high in EI will build real social fabric within an organization, and between an organization and those it serves, whereas those low in EI may tend to create problems for the organization through their individual behaviours. This story is still being written and we urge both researchers and practitioners to proceed knowing that new findings will continue to change and improve our understanding. The general data, however, suggest what EI can mean to individuals in organizations.

Developing emotionally intelligent leadership

The Four Branch model of EI, and the MSCEIT test based on it, provide us with a model of leadership and its development. The MSCEIT cuts right to the heart of a leader's underlying leadership skills, and the model offers a way to conceptualize and carry out strategic plans that incorporate emotions and emotional relationships in the workplace. For example, an overall plan might be to encourage existing customers to adopt a new product, with minimal defections to a competitor. This may demand a strategic plan that addresses both technical aspects - such as product quality, cost, and distribution - and emotional aspects, such as customer feelings toward the company. Carrying out the emotional aspects of such a plan can be organized according to the four-branch model of perceiving, using, understanding, and managing emotions. For example, perceiving emotions might involve surveying the feelings of customers. Using emotions might involve making certain one is in the right frame of mind when tackling sensitive tasks. Understanding emotions may involve charting the emotional impact of various marketing plans on customers, while paying attention to an emotional bottom line, as well as to the financial one. Managing emotions may involve knowing how to lead so as to encourage desired emotional reactions associated with the plan. Some leaders are already excellent at such tasks. Others may seek and acquire training in the area, or rely upon the acumen of a trusted lieutenant.

The pivotal role of emotional intelligence

Do we believe that emotional intelligence is a core competency for management effectiveness? We believe it is one useful tool, but we also believe that there is more than one way to lead, and that certain situations call for EI more (or less) than others. An interim CEO who must enter a troubled organization and jettison major pieces of the company requires the cool-headedness of an aggressive surgeon. While there will be a lot of bad news, there may be little or no time to employ those skills, even if the CEO is high in EI. In many other cases, however, leaders lead not through rational, logical decision making alone, but by merging thinking with feelings. This is where EI skills may play a pivotal role.

Scientific research has uncovered a legitimate new human ability in emotional intelligence, and this has implications for the workforce. Jerry's situation, outlined earlier, is one example of how to use that skill. There are many other such stories we have studied (and participated in) as well. The stories are all different, but they all illustrate how technical and emotional factors work together in the workplace. They also illustrate how the manager who can think accurately and clearly about emotions, may often be in a better position to anticipate, cope with, and effectively manage change.