

Mapping the Passions: Toward a High-Dimensional Taxonomy of Emotional Experience and Expression

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Abstract

What would a comprehensive atlas of human emotions include? For 50 years, scientists have sought to map emotion-related experience, expression, physiology, and recognition in terms of the “basic six”—anger, disgust, fear, happiness, sadness, and surprise. Claims about the relationships between these six emotions and prototypical facial configurations have provided the basis for a long-standing debate over the diagnostic value of expression (for review and latest installment in this debate, see Barrett et al., p. 1). Building on recent empirical findings and methodologies, we offer an alternative conceptual and methodological approach that reveals a richer taxonomy of emotion. Dozens of distinct varieties of emotion are reliably distinguished by language, evoked in distinct circumstances, and perceived in distinct expressions of the face, body, and voice. Traditional models—both the basic six and affective-circumplex model (valence and arousal)—capture a fraction of the systematic variability in emotional response. In contrast, emotion-related responses (e.g., the smile of embarrassment, triumphant postures, sympathetic vocalizations, blends of distinct expressions) can be explained by richer models of emotion. Given these developments, we discuss why tests of a basic-six model of emotion are not tests of the diagnostic value of facial expression more generally. Determining the full extent of what facial expressions can tell us, marginally and in conjunction with other behavioral and contextual cues, will require mapping the high-dimensional, continuous space of facial, bodily, and vocal signals onto richly multifaceted experiences using large-scale statistical modeling and machine-learning methods.

Keywords

emotion, affect, expression, face, voice, signal, semantic space

The strange thing about life is that though the nature of it must have been apparent to everyone for hundreds of years, no one has left any adequate account of it. The streets of London have their map, but our passions are uncharted.

—Virginia Woolf (1922, Chapter 8, para. 18)

What would be included in an atlas of human emotions? In other words, what are the emotions? This question has captivated great thinkers, from Aristotle to the Buddha to Virginia Woolf, each in a different form of inquiry seeking to understand the contents of conscious life. The question of what the emotions are was first brought into modern scientific focus in the writings of Charles Darwin and William James. Over the next century, methodological discoveries gradually anchored the

science of emotion to a predominant focus on prototypical facial expressions of the “basic six”: anger, disgust, fear, sadness, surprise, and happiness. By the late 20th century, many scientists had come to treat these six prototypical facial expressions as if they were exhaustive of human emotional expression; methodological convenience had evolved into scientific dogma.

Clearly, even explorers of the human psyche less astute than Virginia Woolf are likely to question this approach. Is there no more complexity to human emotional life than six coarse, mutually exclusive emotional states? What about the wider range and complexity of emotions people

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Expression Of The Passions

**Thomas Alexander Hyde, William Hyde
(of Cambridge.)**

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