

# Metaphors of consciousness and attention in the brain

Bernard J. Baars

Scientific metaphors have long provided heuristic tools for approaching novel problems. Today, the neurobiology of consciousness and attention is a central concern, presenting formidable conceptual and empirical challenges. Many current ideas fit the broad theme of a theater metaphor; this idea can be worked out in detail, resulting in relevant, testable hypotheses.

*Trends Neurosci.* (1998) 21, 58–62

METAPHORS AND ANALOGIES have a long history in scientific thought: for example, the Rutherford planetary analogy for atomic structure, the clockwork metaphor for the solar system, and Harvey's pump metaphor for the heart. A metaphor can be defined as 'the application of a word or phrase to an object or concept it does not literally denote, suggesting comparison to that object or concept'.<sup>1</sup> Heuristic metaphors are especially useful when the sciences encounter a topic that has no clear precedent, and this is the case with consciousness and attention. A classical metaphor for consciousness has been a 'bright spot' cast by a spotlight on the stage of a dark theater that represents the integration of multiple sensory inputs into a single conscious experience, followed by its dissemination to a vast unconscious audience. In cognitive theory, such a theater stage is called a 'global workspace',<sup>2</sup> and implies both convergence of input and divergent dissemination of the integrated content. In this century, features of the theater metaphor have been suggested by neurobiologists from Pavlov to Crick. Indeed, nearly all current hypotheses about consciousness and selective attention can be viewed as variants of this fundamental idea<sup>3–6</sup>; thus, its pros and cons are worth exploring.

The bright spot metaphor was extended in 1984 by Crick: he proposed a 'searchlight of attention' metaphor for thalamocortical interaction, specified in terms of testable hypotheses at the cellular level. As Crick wrote<sup>7</sup>,

"What do we require of a searchlight? It should be able to sample activity in the cortex and/or the thalamus and decide "where the action is". It should then be able to intensify thalamic input to that region of the cortex, probably by making the active thalamic neurons in that region fire more rapidly than usual. It must then be able to turn off its beam, move to the next place demanding attention, and repeat the process. It seems remarkable, to say the least, that the nature of the reticular complex [of the thalamus] and the behavior of the thalamic neurons fit this requirement so neatly".

Crick derived four testable hypotheses from this metaphor and, if this was its only use it could be discarded as having done its job. However, Crick suggested that 'there may be at least two searchlights: one for

the first visual area and another for all the rest.'<sup>7</sup> Thalamocortical searchlights for auditory and somatosensory cortex could be included, perhaps interacting in a mutually inhibitory fashion, so that only one sensory searchlight could be turned on at any time. But humans can be aware of more than sensory inflow; inner speech and visual imagery can compete for access to consciousness. Indeed, recent evidence indicates that inner speech involves speech-production cortex and speech-perception cortex, and that visual-projection areas participate in visual imagery<sup>8,9</sup>. However, humans also have conscious access to ideas that might involve prefrontal activation<sup>10</sup>. Conscious contents also influence motor output, involving prefrontal, motor and anterior cingulate cortex. Because all these cortical regions interact with corresponding thalamic nuclei, the searchlight metaphor could generate testable hypotheses about the role of consciousness and attention in all these parts of the brain<sup>11,12</sup>.

But that is not all: real searchlights are guided to their targets, suggesting executive control, and are useless without an audience to whom the contents in the illuminated spot are disseminated. In the brain, the 'audience' could consist of unconscious regions, such as cerebral cortex, hippocampus, basal ganglia and amygdala, that might be activated by conscious contents. The audience for a brain searchlight could also include executive or interpreter systems, such as Gazzaniga's 'narrative interpreter' of the left hemisphere<sup>13</sup>, and other executive regions of prefrontal cortex might receive conscious information. Thus searchlight metaphors do not stand alone, but imply a larger framework: a surrounding 'theater'.

Cognitive models of memory have a similar set of implications: a working memory whose active items are conscious and reportable, under executive control, with an audience of memory systems to receive its contents<sup>14</sup>. 'Cognitive architectures' are large-scale simulations that have been developed since the 1950s (Refs 15–16) and have been used to model a range of behavioral tasks from chess-playing to language comprehension, memory retrieval and decision-making. Cognitive architectures resemble theaters, typically receiving input into a narrow 'stage' of working memory, interacting with a large 'audience' of semantic networks, automatic routines and memory systems. This theoretical tradition has been qualitatively related to consciousness in a framework called 'global

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# Metaphors Of Consciousness

**Thomas Griffiths**



## **Metaphors Of Consciousness:**

*Metaphors of Consciousness* Ronald S. Valle, Rolf von Eckartsberg, 2012-12-06 As we move into the 1980s there is an increasing awareness that our civilization is going through a profound cultural transformation At the heart of this transformation lies what is often called a paradigm shift a dramatic change in the thoughts perceptions and values which form a particular vision of reality The paradigm that is now shifting comprises a large number of ideas and values that have dominated our society for several hundred years values that have been associated with various streams of Western culture among them the Scientific Revolution of the seventeenth century The Enlightenment and the Industrial Revolution They include the belief in the scientific method as the only valid approach to knowledge the split between mind and matter the view of nature as a mechanical system the view of life in society as a competitive struggle for survival and the belief in unlimited material progress to be achieved through economic and technological growth All these ideas and values are now found to be severely limited and in need of radical revision

*Metaphors of Consciousness* Ronald S. Valle, Rolf von Eckartsberg, 1989 Metaphors in the History of Psychology David E. Leary, 1994-07-29 Arguing that psychologists and their predecessors have invariably relied on metaphors in articulation the contributors to this volume offer a new key to understanding a critically important area of human knowledge by specifying the major metaphors **Natural Metaphor**

Karen Seymour, 2018-10-12 On a quest for the roots of intelligence Natural Metaphor The Intelligent Evolution of Consciousness is both timely and timeless Sourcing its inspiration in nature both around and within us Natural Metaphor draws from the scientific and theoretical insights that explain nature's form and dynamics while deferring to the mystical seers who speak of its substance As science probes ever deeper into the mysteries and complexities of the universe and its denizens an underlying unifying pattern emerges from beneath the sheath of outward disparity This pattern is transcendent enough to reconcile the seeming opposition between science with its meticulous observation of forms and processes and spirituality with its inwardly penetrating nature Natural Metaphor crosses the bridge between diversity of form and the singular condition which underlies it revealing all formal variations to be physically enacted metaphors of a single indissoluble wholeness While endlessly variable in contour and capacity each participant in the ongoing project of manifestation is bound to every other by universal laws that are common to all Beyond these all inclusive principles however are higher laws intelligently constructed that emerge with each evolutionary venture into novelty and complexity but which are still circumscribed by the same foundational parameters Although not currently numbered among the primary forces of the universe intelligence offers its subtle guidance at even the most elementary levels of complexity and evolution Disclosing its adaptive logic through the physical vehicles it fashions and inhabits the interactions that enjoin those forms into complex systems and even the language that allows explicit disclosure of form's inner experience intelligence is as paramount to evolution as physical law Its function is to create the structure that is necessary to convey its ineffable foundation on an

embodied journey through event and experience whispering the same secret with a multitude of voices that of their origin consciousness itself *Tantric Visual Culture* Sthaneshwar Timalsina, 2015-11-19 Indian culture relies greatly on visual expression and this book uses both classical Indian and contemporary Western philosophies and current studies on cognitive sciences and applies them to contextualize Tantric visual culture The work selects aspects of Tantric language and the practice of visualization with the central premise to engage cognitive theories while studying images It utilizes the contemporary theories of metaphor and cognitive blend the theory of metonymy and a holographic theory of epistemology with a focus on concept formation and its application to the study of myths and images In addition it applies the classical aesthetic theory of rasa to unravel the meaning of opaque images This philosophical and cognitive analysis allows materials from Indian culture to be understood in a new light while engaging contemporary theories of cognitive science and semantics The book demonstrates how the domains of meaning and philosophy can be addressed within any culture without reducing their intrinsic cultural significance By addressing these key aspects of Tantric traditions through this approach this book initiates a much needed dialogue between Indian and Western theories while encouraging introspection within the Indic traditions themselves It will be of interest to those studying and researching Religion Philosophy and South Asian Culture

Metaphors Dead and Alive, Sleeping and Waking Cornelia Müller, 2009-10-15 Traditional thinking on metaphors has divided them into two camps dead and alive Conventional expressions from everyday language are classified as dead while much rarer novel or poetic metaphors are alive In the 1980s new theories on the cognitive processes involved with the use of metaphor challenged these assumptions but with little empirical support Drawing on the latest research in linguistics semiotics philosophy and psychology Cornelia Müller here unveils a new approach that refutes the rigid dead alive dichotomy offering in its place a more dynamic model sleeping and waking To build this model Müller presents an overview of notions of metaphor from the classical period to the present studies in detail how metaphors function in speech text gesture and images and examines the way mixed metaphors sometimes make sense and sometimes do not This analysis leads her to conclude that metaphors may oscillate between various degrees of sleeping and waking as their status changes depending on context and intention Bridging the gap between conceptual metaphor theory and more traditional linguistic theories this book is a major advance for the field and will be vital to novices and initiates alike

**Existential-Phenomenological Perspectives in Psychology** Ronald S. Valle, Steen Halling, 2013-03-08 When I began to study psychology a half century ago it was defined as the study of behavior and experience By the time I completed my doctorate shortly after the end of World War II the last two words were fading rapidly In one of my first graduate classes a course in statistics the professor announced on the first day Whatever exists exists in some number We dutifully wrote that into our notes and did not pause to recognize that thereby all that makes life meaningful was being consigned to oblivion This bland restructuring perhaps more accurately destruction of the world was typical of its time 1940 The influence of a narrow scientific attitude was already spreading throughout the

learned disciplines In the next two decades it would invade and tyrannize the social sciences education and even philosophy To be sure quantification is a powerful tool selectively employed but too often it has been made into an executioner's axe to deny actuality to all that does not yield to its procrustean demands      **The Metaphoric Mind** Bob Samples,1993

Rhetoric & Human Consciousness Craig R. Smith,2003 This text illustrates the evolving definitions of rhetoric from myth display to persuasion symbolic inducement This history of rhetoric includes unique in depth investigations of Greco Roman medieval Renaissance modern existential postmodern thinking      *The Psychology of Consciousness* G. William Farthing,1992 The first book on consciousness that offers sufficient breadth and depth to serve as a stand alone text for courses on consciousness Also ideally organized as a supplement for instructors who discuss topics of consciousness in other courses Journey into the fascinating world of human consciousness with this comprehensive survey that covers topics of consciousness from both a natural science and cognitive psychology viewpoint Based on the belief that consciousness is a natural phenomenon and product of the brain's functioning Dr Farthing's captivating book emphasizes systematic research and theoretical interpretations and also discusses clinical applications and pertinent conceptual and philosophical issues

*Toward a Science of Consciousness ...* ,1999      **Radical Nature** Christian de Quincey,2010-02-22 An exploration of consciousness in all matter from quantum to cosmos Outlines theories of consciousness in ancient and modern philosophy from before Plato to Alfred North Whitehead Reveals the importance of understanding mind in matter for our relationships with the environment with other people even with ourselves Are rocks conscious Do animals or plants have souls Can trees feel pleasure or pain Where in the great unfolding of life did consciousness first appear How we answer such questions can dramatically affect the way we live our lives how we treat the world of nature and even how we relate to our own bodies In this new edition of the award winning *Radical Nature* Christian de Quincey explores the hard problem of philosophy how mind and matter are related and proposes a radical and surprising answer that matter itself tingles with consciousness at the deepest level It's there in the cells of every living creature even in molecules and atoms Tracing the lineage of this idea through Western philosophy and science he shows that it has a very noble history from before Plato to Alfred North Whitehead He reveals that the way to God is through nature and that understanding how body and soul fit together has surprising consequences for our relationships with our environment with other people and even with ourselves      *Metaphor* E. B.,Henry Watson Fowler,Arthur Clutton-Brock,1922      *Attractions of Thought* Richard John Koscijew,2018-06-28 We began by perceiving the world through the lenses of symbolic categories to construct similarities and differences in terms of categorical oppositions and to organize our lives according to themes and narratives Living in this new symbolic universe the modern humans had a large compulsion to codify and then recodify their experiences to translate everything into representation and to seek out the deeper hidden logic that eliminates inconsistencies and ambiguities The appending presumption is that sometimes it is taken for granted as fact However its decisions are based on the fundamental principles

whose assumptions are based on or upon the nature of which were presented by surmising of the one to one correspondence having to exist between every element of physical reality and physical theory This may serve to bridge the gap between mind and world for those who use physical theories But it also suggests that the Cartesian division is inseparably integrated and structurally real least of mention as impregnably formidable for physical reality as it is based on ordinary language That explains in no small part why the radical separation between mind and world as sanctioned by classical physics and formalized by Descartes yet it remains as philosophical postmodernism attests as one of the most pervasive features of Western intellectual thought

**Metaphors in Aeschines the Orator** William Ritchie Fraser,1897 *Consciousness* Giuseppe Trautteur,1995 Psychological Bulletin ,1915 Vol 49 no 4 pt 2 July 1952 is the association s Publication manual *Everyman's Psychology* John Adams,1929 *A Cognitive Theory of Metaphor* Earl R. Mac Cormac,1985 In this book Earl Mac Cormac presents an original and unified cognitive theory of metaphor using philosophical arguments which draw upon evidence from psychological experiments and theories He notes that implications of this theory for meaning and truth with specific attention to metaphor as a speech act the iconic meaning of metaphor and the development of a four valued system of truth Numerous examples of metaphor from poetry and science are presented and analyzed to support Mac Cormac s theory A Cognitive Theory of Metaphor takes up three levels of explanation metaphor as expressed in surface language the semantics of metaphor and metaphor as a cogitive process and unifies these by interpreting metaphor as an evolutionary knowledge process in which metaphors mediate between minds and culture Mac Cormac considers and rejects the radical theory that all use of language is metaphorical however this argument also recognizes that the theory of metaphor may itself be metaphorical The book first considers the computational metaphor often adopted by cognitive psychology as an example of metaphor requiring analysis In contrast to three well known philosophical theories of metaphor the tension theory the controversion theory and the grammatical deviance theory it develops a semantical anomaly theory of metaphor based on a quasi mathematical hierarchy of words In developing the theory Mac Cormac makes much needed connections between theories of metaphor and more orthodox analytic philosophy of meaning including discussions of speech acts and the logic of fuzzy sets This semantical theory of explanation is then shown to be compatible with contemporary psychological theories of memory Earl R MacCormac is Charles A Dana Professor of Philosophy and Chairman of the Department of Philosophy Davidson College A Bradford Book **Peirce's Doctrine of Signs** Vincent Michael Colapietro,Thomas M. Olszewsky,1996 No detailed description available for Peirce s Doctrine of Signs

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