

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.

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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'.¹ 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',² 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^{3–6}; 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 wrote⁷,

"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.'⁷ 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^{8,9}. However, humans also have conscious access to ideas that might involve prefrontal activation¹⁰. 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^{11,12}.

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 hemisphere¹³, 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 contents¹⁴. '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

Jill M. Kress



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knowledge gender and social class revealing how writers conceived of the self in modern literature Social Studies of

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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

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Reviewing **Metaphors Of Consciousness**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Metaphors Of Consciousness**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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Table of Contents Metaphors Of Consciousness

1. Understanding the eBook Metaphors Of Consciousness
 - The Rise of Digital Reading Metaphors Of Consciousness
 - Advantages of eBooks Over Traditional Books
2. Identifying Metaphors Of Consciousness
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Metaphors Of Consciousness
 - User-Friendly Interface
4. Exploring eBook Recommendations from Metaphors Of Consciousness
 - Personalized Recommendations
 - Metaphors Of Consciousness User Reviews and Ratings
 - Metaphors Of Consciousness and Bestseller Lists

5. Accessing Metaphors Of Consciousness Free and Paid eBooks
 - Metaphors Of Consciousness Public Domain eBooks
 - Metaphors Of Consciousness eBook Subscription Services
 - Metaphors Of Consciousness Budget-Friendly Options
6. Navigating Metaphors Of Consciousness eBook Formats
 - ePub, PDF, MOBI, and More
 - Metaphors Of Consciousness Compatibility with Devices
 - Metaphors Of Consciousness Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Metaphors Of Consciousness
 - Highlighting and Note-Taking Metaphors Of Consciousness
 - Interactive Elements Metaphors Of Consciousness
8. Staying Engaged with Metaphors Of Consciousness
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Metaphors Of Consciousness
9. Balancing eBooks and Physical Books Metaphors Of Consciousness
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Metaphors Of Consciousness
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Metaphors Of Consciousness
 - Setting Reading Goals Metaphors Of Consciousness
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Metaphors Of Consciousness
 - Fact-Checking eBook Content of Metaphors Of Consciousness
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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