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IMAGERY IN WORKING MEMORY AND IN MENTAL DISCOVERY

*Edited by
Tore Helstrup and Robert H. Logie*

A **Psychology Press** Book

A SPECIAL ISSUE

Imagery In Working Memory And In Mental Discovery

Kim Marriott



Imagery In Working Memory And In Mental Discovery:

Imagery in Working Memory and in Mental Discovery Tore Helstrup, Robert H. Logie, 1999 A special issue of European journal of cognitive psychology

Working Memory in Perspective Jackie Andrade, 2002-06-01 The Baddeley and Hitch 1974 Working Memory model holds a central place in experimental psychology and continues to be extremely successful in guiding and stimulating research in applied and theoretical domains Yet the model now faces challenges from conflicting data and competing theories In this book experienced researchers in the field address the question Will the model survive these challenges They explain why it is so successful evaluate its weaknesses with respect to opposing data and theories and present their vision of the future of the model in their particular area of research The book includes a discussion of the Episodic Buffer component which has recently been added to the working memory model The result is a comprehensive and critical assessment of the working memory model and its contribution to current research in human cognition cognitive development neuroscience and computational modelling Furthermore this collection serves as a case study to illustrate the range of factors that determine the success or failure of a theory and as a forum for discussing what researchers want from scientific theories The book begins with an accessible introduction to the model for those new to the field and explains the empirical methods used in working memory research It concludes by highlighting areas of consensus and suggesting a programme of research to address issues of continuing controversy Working Memory in Perspective will be a valuable resource to students and researchers alike in the fields of human memory language thought and cognitive development

Tragic Props and Cognitive Function Colleen Chaston, 2010 By applying aspects of cognitive psychology to a study of three key tragic props this book examines the importance of visual imagery in ancient Greek tragedy The shield the urn and the mask are props which serve as controls for investigating the connection between visual imagery and the spectators intellectual experience of tragic drama As vehicles for conceptual change the props point to a function of imagery in problem solving Connections between the visual and the cognitive in tragedy particularly through image shape and its potential for various meanings add a new perspective to scholarship on the role of the visual in ancient performance These connections also add weight to the importance of imagery in contemporary problem solving and creative thought

Imagery, Language and Visuo-Spatial Thinking Michel Denis, Robert Logie, Cesare Cornoldo, Manuel de Vega, Johannes Engelkamp, 2012-10-12 Imagery Language and Visuo Spatial Thinking discusses the remarkable human ability to use mental imagery in everyday life from helping plan actions and routes to aiding creative thinking from making sense of and remembering our immediate environment to generating pictures in our minds from verbal descriptions of scenes or people The book also considers the important theme of how individuals differ in their ability to use imagery With contributions from leading researchers in the field this book will be of interest to advanced undergraduates postgraduates and researchers in cognitive psychology cognitive science and cognitive neuropsychology

Studying Designers'05 John S. Gero, Nathalie Bonnardel, 2005 **The**

Routledge International Handbook of Creative Cognition Linden J. Ball,Frédéric Vallée-Tourangeau,2023-08-31 The Routledge International Handbook of Creative Cognition is an authoritative reference work that offers a well balanced overview of current scholarship across the full breadth of the rapidly expanding field of creative cognition It contains 43 chapters written by world leading researchers covering foundational issues and concepts as well as state of the art research developments The handbook draws extensively on contemporary work exploring the cognitive representations and processes associated with creativity whether studied in the laboratory or as it arises in real world practice in domains such as education art science entrepreneurship design and technological innovation Chapters also examine the sociocognitive and cultural aspects of creativity in teams and organisations while additionally capturing the latest research on the cognitive neuroscience of creativity Providing a compelling synopsis of emerging trends and debates in the field of creative cognition and positioning these in relation to established findings and theories this text provides a clear sense of the way in which new research is challenging traditional viewpoints It is an essential reading for researchers in the field of creative cognition as well as advanced students wishing to learn more about the latest developments in this important and rapidly growing area of enquiry

Imagery, Creativity, and Discovery B. Roskos-Ewoldsen,M.J. Intons-Peterson,R.E. Anderson,1993-05-28 What factors affect creativity and the generation of creative images What factors affect the ability to reinterpret those images Research described in this book indicates that expectations constrain both of these attributes of creativity Characteristics of the imagined pattern such as cohesiveness or its psychological goodness also affect image generation and reinterpretation Other evidence indicates that images can be combined mentally to yield new manipulable composites Cognitive models encompass the research and extend it to fields as diverse as architecture music and problem solving

Visuo-spatial Working Memory Robert H. Logie,2014-03-18 Representation of the visual and spatial properties of our environment is a pivotal requirement of everyday cognition We can mentally represent the visual form of objects We can extract information from several of the senses as to the location of objects in relation to ourselves and to other objects nearby For some of those objects we can reach out and manipulate them We can also imagine ourselves manipulating objects in advance of doing so or even when it would be impossible to do so physically The problem posed to science is how these cognitive operations are accomplished and proffered accounts lie in two essentially parallel research endeavours working memory and imagery Working memory is thought to pervade everyday cognition to provide on line processing and temporary storage and to update moment to moment our representation of the current state of our environment and our interactions with that environment There is now a strong case for the claims of working memory in the area of phonological and articulatory functions all of which appear to contribute to everyday activities such as counting arithmetic vocabulary acquisition and some aspects of reading and language comprehension The claims for visual and spatial working memory functions are less convincing Most notable has been the assumption that visual and spatial working memory are intimately involved in the

generation retention and manipulations of visual images There has until recently been little hard evidence to justify that assumption and the research on visual and spatial working memory has focused on a relatively restricted range of imagery tasks and phenomena In a more or less independent development the literature on visual imagery has now amassed a voluminous corpus of data and theory about a wide range of imagery phenomena Despite this few books on imagery refer to the concept of working memory in any detail or specify the nature of the working memory system that might be involved in mental imagery This essay follows a line of reconciliation and positive critiquing in exploring the possible overlap between mental imagery and working memory Theoretical development in the book draws on data from both cognitive psychology and cognitive neuropsychology The aim is to stimulate debate to address directly a number of assumptions that hitherto have been implicit and to assess the contribution of the concept of working memory to our understanding of these intriguing core aspects of human cognition

The Cambridge Handbook of Visuospatial Thinking Priti Shah,Akira Miyake,2005-07-18 The ability to navigate across town comprehend an animated display of the functioning of the human heart view complex multivariate data on a company s website or to read an architectural blueprint and form a three dimensional mental picture of a house are all tasks involving visuospatial thinking The field of visuospatial thinking is a relatively diverse interdisciplinary research enterprise An understanding of visuospatial thinking and in particular how people represent and process visual and spatial information is relevant not only to cognitive psychology but also education geography architecture medicine design computer science artificial intelligence semiotics and animal cognition The goal of this book first published in 2005 is to present a broad overview of research on visuospatial thinking that can be used by researchers as well as students interested in this topic in both basic research and applied naturalistic contexts

Spatial Cognition Seán Ó Nualláin,2000-11-23 Spatial Cognition brings together psychology computer science linguistics and geography discussing how people think about space our internal cognitive maps and spatial perception and how we communicate about space for instance giving route directions or using spatial metaphors The technological applications adding dynamism to the area include computer interfaces educational software multimedia and in car navigation systems On the experimental level themes as varied as gender differences in orientation and of course wholly unrelated the role of the hippocampus in rodent navigation are described Much detailed analysis and computational modeling of the structure of short term memory STM is discussed The papers were presented at the 1998 annual meeting of the Cognitive Science Society of Ireland Mind III Series B

Creativity and Mental Imagery Massimiliano Palmiero,Laura Piccardi,Raffaella Nori,Liana Palermo,Carola Salvi,Cecilia Guariglia,2016-10-18 Creativity is increasingly attracting attention of scientific community given its role in different aspects of human life So far we have only begun to understand its complexity and how it correlates with other cognitive processes A further understanding of its key processes is essential to better implement applications of creativity tools to daily life Therefore it is the aim of this Research Topics to further elucidate how creativity can be measured and its components such

as mental imagery are determined *Creativity and Innovation in Organizational Teams* Leigh L. Thompson, Hoon-Seok Choi, 2006-04-21 Creativity and Innovation in Organizational Teams stemmed from a conference held at the Kellogg School of Management in June 2003 covering creativity and innovation in groups and organizations Each chapter of the book is written by an expert and covers original theory about creative processes in organizations The organization of the text reflects a longstanding notion that creativity in the world of work is a joint outcome of three interdependent forces individual thinking group processes and organizational environment Part I explores basic cognitive mechanisms that underlie creative thinking and includes chapters that discuss cognitive foundations of creativity a cognitive network model of creativity that explains how and why creative solutions form in the human mind and imports a ground breaking concept of creativity templates to the study of creative idea generation in negotiation context The second part is devoted to understanding how groups and teams in organizational settings produce creative ideas and implement innovations Finally Part III contains three chapters that discuss the role of social organizational context in which creative endeavors take place The book has a strong international mix of scholarship and includes clear business implications based on scientific research It weds the disciplines of psychology cognition and business theory into one text *Insight and Creativity in Problem Solving* Kenneth J. Gilhooly, Linden J. Ball, Laura Macchi, 2019-10-23 To date we have only a fragmentary understanding of the thought processes that engender insightful solutions to problems that require a change in representation or the discovery of distant associations to presented information We likewise have only a piecemeal understanding of the thinking that underpins creative problem solving where solutions are needed that are new to the solver Recently there has been a growing interest in removing the mystery from insight and creativity through better specified theories and theory driven experimentation The chapters in this volume reflect key developments in this expanding field of insight and creativity research Collectively the chapters converge on a nuanced view of insight and creative thinking as often arising from the interplay between two qualitatively distinct types of processes that interact to yield sudden surprising and innovative solutions to problems that initially seemed impenetrable and resistant to the application of inventive ideas This dual process perspective which capitalises on the distinction between special automatic unconscious and associative Type 1 processes and routine controlled conscious and analytic Type 2 processes helps advance a theoretical understanding of insight and creativity whilst also provoking important new research questions This book was originally published as a special issue of *Thinking and Reasoning* Imagery and Spatial Cognition Tomaso Vecchi, Gabriella Bottini, 2006-08-22 The relationships between perception and imagery imagery and spatial processes memory and action these are the main themes of this text The interest in experimental psychology and cognitive neuroscience on imagery and spatial cognition has remarkably increased in the last decades Different areas of research contribute to the clarification of the multiple cognitive processes subserving spatial perception and exploration and to the definition of the neurophysiological mechanisms underpinning these cognitive functions The aim of this book is to provide the

reader post graduate students as well as experts with a complete overview of this field of research It illustrates how brain behaviour and cognition interact in normal and pathological subjects in perceiving representing and exploring space Series B

Spatial Cognition IV, Reasoning, Action, Interaction C. Freksa, 2005-03 This book constitutes the thoroughly refereed postproceedings of the International Conference on Spatial Cognition 2004 held in Fauenchiemsee Germany in October 2004 The 27 revised full papers presented were carefully reviewed and selected from 50 submissions The papers are organized in topical sections on route directions wayfinding and spatial behaviour description of space prepositions and reference meta models diagrams and maps spatial temporal representation and reasoning and robot mapping and piloting

Visuo-spatial Working Memory and Individual Differences Cesare Cornoldi, Tomaso Vecchi, 2004-06-02 In this book Cornoldi and Vecchi describe a coherent experimental approach to the investigation of visuo spatial cognition based upon the analysis of individual differences

Encyclopedia of the Human Brain, 2002-07-04 In the past decade enormous strides have been made in understanding the human brain The advent of sophisticated new imaging techniques e g PET MRI MEG etc and new behavioral testing procedures have revolutionized our understanding of the brain and we now know more about the anatomy functions and development of this organ than ever before However much of this knowledge is scattered across scientific journals and books in a diverse group of specialties psychology neuroscience medicine etc The Encyclopedia of the Human Brain places all information in a single source and contains clearly written summaries on what is known of the human brain Covering anatomy physiology neuropsychology clinical neurology neuropharmacology evolutionary biology genetics and behavioral science this four volume encyclopedia contains over 200 peer reviewed signed articles from experts around the world The Encyclopedia articles range in size from 5 30 printed pages each and contain a definition paragraph glossary outline and suggested readings in addition to the body of the article Lavishly illustrated the Encyclopedia includes over 1000 figures many in full color Managing both breadth and depth the Encyclopedia is a must have reference work for life science libraries and researchers investigating the human brain

The Golden Age of Data Visualization Kim Marriott, 2024-09-04 We are living in the Golden Age of Data Visualization The COVID 19 pandemic has demonstrated how we increasingly use data visualizations to make sense of the world Business analysts fill their presentations with charts journalists use infographics to engage their readers we rely on the dials and gauges on our household appliances and we use mapping apps on our smartphones to find our way This book explains how and why this has happened It details the evolution of information graphics the kinds of graphics at the core of data visualization maps diagrams charts scientific and medical images from prehistory to the present day It explains how the cultural context production and presentation technologies and data availability have shaped the history of data visualization It considers the perceptual and cognitive reasons why data visualization is so effective and explores the little known world of tactile graphics raised line drawings used by people who are blind The book also investigates the way visualization has shaped our modern world The European Renaissance and the

Scientific Revolution relied on maps and technical and scientific drawings and graphics influence how we think about abstract concepts like time and social connection This book is written for data visualization researchers and professionals and anyone interested in data visualization and the way we use graphics to understand and think about the world

Journal of Mental Imagery ,2009 **Information Visualization** Colin Ware,2012-05-21 Most designers know that yellow text presented against a blue background reads clearly and easily but how many can explain why and what really are the best ways to help others and ourselves clearly see key patterns in a bunch of data When we use software access a website or view business or scientific graphics our understanding is greatly enhanced or impeded by the way the information is presented This book explores the art and science of why we see objects the way we do Based on the science of perception and vision the author presents the key principles at work for a wide range of applications resulting in visualization of improved clarity utility and persuasiveness The book offers practical guidelines that can be applied by anyone interaction designers graphic designers of all kinds including web designers data miners and financial analysts Complete update of the recognized source in industry research and academic for applicable guidance on information visualizing Includes the latest research and state of the art information on multimedia presentation More than 160 explicit design guidelines based on vision science A new final chapter that explains the process of visual thinking and how visualizations help us to think about problems Packed with over 400 informative full color illustrations which are key to understanding of the subject

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