

# From Mental Imagery To Spatial Cognition And Language Essays In Honour Of Michel Denis Psychology Press Festschrift Series By Psychology Press 2012 05 17

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### [From Mental Imagery To Spatial](#)

#### **Sparing of spatial mental imagery in patients with ...**

The findings suggest that the hippocampus is not needed for constructing many forms of spatial imagery but is needed for the formation of long-term memory In future studies of the neural organization of spatial mental imagery, it will be important to separate the contribution of spatial processing from the contribution of learning and memory

#### **Individual differences in spatial mental imagery**

Individual differences in spatial mental imagery Gre'goire Borst and Stephen M Kosslyn Harvard University, Cambridge, MA, USA In this article, we report a new image-scanning paradigm that allowed us to measure objectively indi-

## **Mental Imagery and Aging**

Mental Imagery and Aging Itiel E Dror and Stephen M Kosslyn Young adult and elderly Ss performed 4 visual mental imagery tasks, each of which tapped different processes The elderly had relatively impaired image rotation and image activation (the process of

### **Object-Spatial Imagery: A New Self-Report Imagery ...**

poorly on spatial imagery tasks (eg mental rotation task) but excelled on object imagery tasks (eg degraded pictures task) and a group that excelled on spatial imagery tasks but scored poorly on object imagery tasks Thus, two types of imagers were identified: object imagers who tend to construct colourful, pictorial, and high-resolution

### **Mental imagery, reasoning, and blindness**

spatial representations, whereas visual mental imagery is not necessary in reasoning We report three experiments with sighted, congenitally totally blind, and blindfolded sighted participants that test this hypothesis Finally, we draw some general conclusions about ...

### **Modelling Spatial Recall, Mental Imagery and Neglect**

Alternatively, to act on a spatial location (eg reach with the hand) or to imagine a scene, an egocentric representation (eg relative to the hand or retina) is more useful [7, 8] A study of hemispatial neglect patients throws some light on the interaction of long-term memory with mental imagery

### **Visual imagery and visual-spatial language: Enhanced ...**

relation between the use of ASL and spatial imagery abilities In this article we report a series of experiments in which we compare various aspects of visual mental imagery in deaf signers of ASL, hearing signers who learned ASL from their deaf parents, and hearing non-signers

### **Cognitive Maps, Cognitive Collages, and Spatial Mental Models**

Tversky, B (1993) Cognitive Maps, Cognitive Collages, and Spatial Mental Models In Frank, AU and Campari, I (Eds) Spatial Information Theory: A Theoretical

### **ROLE OF MENTAL IMAGERY IN A PROPERTY VERIFICATION ...**

ROLE OF MENTAL IMAGERY IN A PROPERTY VERIFICATION TASK: FMRI EVIDENCE FOR PERCEPTUAL REPRESENTATIONS OF CONCEPTUAL KNOWLEDGE Irene P Kan University of Pennsylvania, Philadelphia, USA Lawrence W Barsalou Emory University, Atlanta, GA, USA Karen Olseth Solomon Willamette University, Salem, MA, USA Jeris K Minor and Sharon L Thompson-Schill

### **Kosslyn (1978) Visual images preserve metric spatial ...**

Visual Images Preserve Metric Spatial Information: Evidence from Studies of Image Scanning Stephen M Kosslyn Harvard University Brian J Reiser New York University Thomas M Ball Johns Hopkins University Four experiments demonstrated that more time is required to scan further distances across visual images, even when the same amount of

### **Spatial and Linguistic Aspects of Visual Imagery in ...**

knowledge in the construction of mental representations of scenes from verbal input (Zwaan, 1999) This convergence of views has spawned several lines of empirical and theoretical work arguing that understanding language leads to the automatic and unconscious activation of mental imagery corresponding to the content of the utterance

### **Mental Imagery - Rutgers University**

Mental Imagery The idea that mental imagery may have a role in reasoning goes back a long way - one of the earliest attempts to study empirically the role that such imagery played in thinking was carried out by Sir Francis Galton in 1883, when he surveyed a large number of people for their use

of mental imagery, using his “breakfast

### **Mental Imagery and Reading Comprehension Proficiency in ...**

MENTAL IMAGERY AND READING COMPREHENSION 1 Mental Imagery and Reading Comprehension Proficiency in English Second Language Learners: An Exploratory Study Aleksandra A Ashton 2012 A research report submitted to the Faculty of Humanities, University of the Witwatersrand, Johannesburg, in partial fulfillment of the

### **Study of Visual Mental Imagery on the Aspects of ...**

Mental imagery exists in relation of all sensory modes viz, visual, auditory, gustatory, tactile and olfactory as well as visceral sensations and emotional feeling [10] Visual Mental Imagery Visual mental imagery addresses the visual modality of the imagery It is, traditionally, the most discussed variety of ...

### **Object and spatial subsystems in mental imagery**

ABSTRACT 1-7,-W^nlO \>V\r Recent evidence indicates that mental imagery comprises independent object and spatial subsystems The experiments reported here are behavioral studies of

### **Reviews: From Mental Imagery to Spatial Cognition and ...**

From mental imagery to spatial cognition and language: essays in honour of Michel Denis edited by V Gyselinck, F Pazzaglia; Psychology Press, Hove, Sussex, 2012, 296 pages, £8000 cloth (US \$12500) ISBN 9781848720497 This book comprises a collection of contributions to a festschrift, of sorts, held in honour of Michel

### **The hippocampus and spatial constraints on mental imagery**

REVIEW ARTICLE published: 17 May 2012 doi: 103389/fnhum201200142 The hippocampus and spatial constraints on mental imagery Chris M Bird 1,2, James A Bisby

### **Spatial Representations and Imagery in Learning**

in their mind’s eye The process of working with these mental spatial representations is called, “imagery” Spatial representation is different from other forms of cognitive representation studied by learning scientists—linguistic, conceptual, logical—because spatial representations partake of perceptual processes and experiences

### **Mental Imagery and the Visual System**

Mental Imagery and the Visual System What is the relation between mental imagery and visual perception? Recent work suggests the two share many of the same neural processes in the human visual system People often report that they can form mental images of an object that resemble the object's actual appearance The act of constructing

### **Computational model of enactive visuospatial mental ...**

31 extended with a spatial visual system and a mental imagery module (Lath-32 rop & Laird, 2009) has features of pictorial and descriptive theories, but not 33 the enactive theory 34 The enactive theory will be described more in-depth, as it serves as a 35 paradigm for this research Methodologically, analytic and synthetic ap-