

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

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### From Mental Imagery To Spatial

Reviewing state-of-the-art research in the field of imagery, visuo-spatial memory, spatial representation and language, with special emphasis on their interactions, the volume shows how, and to what extent, findings from the studies on imagery can positively influence and enrich other psychological areas such as:

### Amazon.com: From Mental Imagery to Spatial Cognition and ...

Visual Imagery and Imagery Processes B. Tversky, Telling Tales, or Journeys G. Borst, S. M. Kosslyn, Scanning Visual Mental Images: Some Structural Implications, Revisited H. D. Zimmer, Visual Imagery in the Brain: Modality-Specific and Spatial, But May Be Without Space Part 2.

### From Mental Imagery to Spatial Cognition and Language ...

From Mental Imagery to Spatial Cognition and Language: Essays in Honour of Michel Denis (Psychology Press Festschrift Series) - Kindle edition by Valérie Gyselinck, Francesca Pazzaglia, ValÃ©rie Gyselinck. Download it once and read it on your Kindle device, PC, phones or tablets. Use features like bookmarks, note taking and highlighting while reading From Mental Imagery to Spatial Cognition ...

### From Mental Imagery to Spatial Cognition and Language ...

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### From Mental Imagery to Spatial Cognition and Language

Mental Imagery/Impact of Attention and Spatial Ordering Mental imagery refers to the process of picturing an event, concept, or procedure in your mind. In math, one way students use mental images is to reinforce their understanding of new concepts. By translating a verbal description of a new concept into a visual picture, a student can better ...

### Mental Imagery/Impact of Attention and Spatial Ordering

Spatial imagery is imagery of spatial relationships. If I ask you to imagine the room in which you spend most of your time awake if you produce a picture of this in your mind it is spatial imagery, particularly if it is a three dimensional mental representation. This idea is related to that of cognitive maps, cognitive control

### Spatial imagery | Psychology Wiki | Fandom

The properties of these cells, how they represent spatial location, environmental boundaries, spatial orientation, and viewing direction, indicate a very specific model for how spatial information is retrieved and processed to form mental imagery for scenes (see Becker and Burgess, 2001; Burgess et al., 2001; Byrne et al., 2007). In the first ...

### The hippocampus and spatial constraints on mental imagery

The scientific investigation of mental imagery has a long and colorful history (see, e.g., Paivio, 1971; Yates, 1966) that ties it closely to the visual and spatial knowledge that we use in remembering environments.

### Mental Imagery - an overview | ScienceDirect Topics

To a first approximation, the analog side of the debate holds that the mental representations that we experience as imagery are, in some important sense, like pictures, with intrinsically spatial representational properties of the sort that pictures have (i.e., pictures do not just represent spatial relationships between the objects they depict, but represent those relationships, at least in part, via actual spatial relationships on the picture surface).

### Mental Imagery (Stanford Encyclopedia of Philosophy)

Whereas spatial perception involves understanding externally via the senses, spatial visualization is the understanding internally through mental imagery in one's mind. Another critical spatial visualization ability is mental animation.

### Spatial ability - Wikipedia

The spatial abilities tested in these studies involved mental imagery such as visualization of two and three-dimensional objects and manipulation of mental representations (e.g., mental rotation). Mental images are the building blocks of human consciousness that comprise one's internal representation of the world.

### Exceptional visuospatial imagery in schizophrenia ...

-if imagery is visual-spatial then traveling a farther mental distance will be slower than a shorter distance as the physical distance between two landmarks increases, subjects reaction times for searching their mental image increase

### mental imagery and spatial cognition Flashcards | Quizlet

Positron emission tomography (PET) was used to monitor regional cerebral blood flow variations while subjects were constructing mental images of objects made of three-dimensional cube assemblies from auditorily presented instructions. This spatial mental imagery task was contrasted with both passive listening (LIST) of phonetically matched nonspatial word lists and a silent rest (REST) condition.

### Functional Anatomy of Spatial Mental Imagery Generated ...

Which of the following students provides the most accurate information about the current importance of mental imagery and spatial skills? a. Assaf: "Spatial ability plays a very important part in careers related to science and technology." b. Lucille: "Within the area of mental imagery, people now conduct more research on auditory imagery than ...

### Chapter 7: Mental Imagery and Cognitive Maps Flashcards ...

Neural substrates of visual imagery. Visual imagery is the ability to create mental representations of things, people, and places that are absent from an individual's visual field. This ability is crucial to problem-solving tasks, memory, and spatial reasoning. Neuroscientists have found that imagery and perception share many of the same neural substrates, or areas of the brain that function ...

### Mental image - Wikipedia

Mental imagery ability is also directly linked to true and false memory processes: Children's faster and more accurate image generation enhances visuo-spatial recall ([ 8 ], see [ 9] for findings in adults).

### How Visuo-Spatial Mental Imagery Develops: Image ...

Mental Imagery. Mental imagery is similar to motor imagery, but instead of imagining motions, the user performs different types of cognitive activities: mental subtraction, auditory imagery, spatial navigation, etc. (Friedrich et al., 2012) As the frequency distribution of the EEG changes depending on the user's mental workload (Herrmann et al ...

### Mental Imagery - an overview | ScienceDirect Topics

poorly on spatial imagery tasks (e.g. mental rotation task) but excelled on object imagery tasks (e.g. 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 ...

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

Mental imagery is subjectively vague, and we have shown that mental images are encoded with lower spatial frequency preference and larger receptive fields than seen images. However, samples drawn from generative networks developed for AI applications (e.g., [