



# Using Imagery In Creative Problem Solving

**Susan R. Daniels**



## Using Imagery In Creative Problem Solving:

**Using Imagery in Creative Problem Solving** Michael T. Bagley, 1990      Encyclopedia of Creativity Steven R. Pritzker, 1999-08-09 The Encyclopedia of Creativity is the sourcebook for individuals seeking specialized information about creativity and motivation Subjects include theories of creativity techniques for enhancing creativity individuals who have made significant contributions to creativity physiological aspects of creativity and virtually any topic that touches upon the subject Entries are placed in alphabetical order with cross references to other topics and entries where appropriate Each entry is written in simple easy to understand terms summarizing the most important aspects of creative research and writing relating to the specific topic A bibliography in the back of each article suggests additional sources for more information The text is visually enhanced throughout by illustrations and photographs A source book of specialized information about creativity and motivation Includes virtually any topic dealing with creativity Entries are placed in alphabetical order with cross references Written in easy to understand terms Illustrations and photographs throughout Contains select biographies of internationally renowned creative individuals from throughout history      **Encyclopedia of Creativity** Mark A. Runco, Steven R. Pritzker, 1999 This encyclopaedia provides specific information and guidance for everyone who is searching for a greater understanding the text includes theories of creativity techniques for enhancing creativity and individuals who have contributed to creativity      **SPONTANEOUS CREATIVE IMAGERY** Aina O. Nucho, 1995-01-01 The purpose of this book is to make imagery techniques readily accessible to professionals in the health and mental health fields Imagery techniques are a relatively new development in the health and mental health fields Imagery techniques have been used with excellent results for acute as well as chronic illnesses These techniques have also proven effective in easing predicaments of interpersonal relationships Empirical research studies have accumulated to show that imagery techniques are cost effective short term treatment procedures Now that the various Health Maintenance Organizations are discovering that there are financial incentives in helping people maintain good health rather than wait to provide treatment after the person has developed an illness imagery techniques should prove useful in conjunction with conventional medical care for both the prevention and treatment of illnesses of various kinds It is addressed to practitioners and students in the various helping and healing professions Social workers psychologists counselors nurse practitioners and others will find this work useful It may also be of interest to the general reader who intends to preserve good health or cope more effectively with some persistent health concern      **Mental Imagery in Creative Problem Solving** Mark J. Polland, 1996      **XXX International Congress of Psychology: Abstracts** Michele Robert, 2017-10-03 The abstracts of the XXX International Congress of Psychology July 2012 Cape Town are published as a supplement to Volume 47 of the International Journal of Psychology The published volume includes the abstracts of the invited addresses symposia oral and poster presentations numbering over 5 000 separate contributions and creating an invaluable overview of the discipline of psychological science around the world today

Encyclopedia of Creativity: A-H Mark A. Runco, Steven R. Pritzker, 1999 This encyclopaedia provides specific information and guidance for everyone who is searching for a greater understanding the text includes theories of creativity techniques for enhancing creativity and individuals who have contributed to creativity Visual Imagery and Its Relation to Problem Solving Geir Kaufmann, 1979 *Images of Creativity* Susan R. Daniels, 1995 **Source Book for Creative Problem-solving** Sidney Jay Parnes, 1992 **Imagery Patterns in Creative Problem Solving** T. H. Carl Krueger, 1981 *Imagery in Psychology* Jon Roedeliein, 2004-05-30 Provides a current and comprehensive review of the literature on imagery in psychology and traces the evolution of the topic from ancient to modern times **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 began 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 *Frontiers of Creativity Research* Scott G. Isaksen, 1987 **Child Development, an Introduction** Steven R. Yussen, John W. Santrock, 1982 **The Role of Visual Mental Imagery in Solving Complex Problems in Design** Howard Eric Middleton, 1998 Abstract The problem addressed in this thesis is the nature of design expertise and the role of visual mental imagery in design The problem is addressed firstly by examining the nature of problems including design problems It is argued that design problems are complex and ill defined and can be distinguished from non design problems Secondly design expertise is examined It was found that design experts have a large store of design knowledge in a form that is readily accessible and engage in extensive problem finding prior to generating design solutions Thirdly the role of visual mental images as a component of design problem solving and design expertise is examined It is argued that visual mental images are important features of both design expertise and the transition from novice to expert A number of case studies are designed and conducted The findings of these studies are interpreted as supporting the theoretical ideas developed in the thesis The introduction of design based technology programs into Australian high schools has created the need for teachers to be able to assist students to generate creative solutions to design problems Currently technology teachers are experiencing difficulty in helping students to generate creative solutions to design problems Hence a better understanding of design process may help to shape teaching and learning in design based subjects Furthermore many complex everyday problems share similar properties with design problems The research may therefore contribute to the understanding of the way people solve problems that have some characteristics in common with design problems It is argued in this thesis that existing theories and models explaining the nature of problems and of the processes of solving problems are adequate in explaining many categories of problems and problem solving but are inadequate in explaining the process of

solving design problems A new model of a problem space is proposed and justified It is argued that design problems occur within a problem space that consists of a problem zone a search and construction space and a satisficing zone To establish theoretically the role of visual mental imagery in designing two bodies of cognitive research literature are employed Firstly research into the utility of sketches in problem solving are examined This research indicates that external images assist problem solving Secondly research into the relationship between perception and imagery is examined This research suggests that visual mental images are functionally equivalent to perceived images Thirdly by combining the findings on sketches in problem solving with the findings on imagery and perception it is then possible to argue that visual mental images can assist problem solving and may play an important role in the resolution of complex design problems The cognitive theory explaining the role of visual mental imagery in problem solving in design is used to develop predictions for testing in two practical studies Designers use visual imagery to represent and transform complex design problems within the problem space and visual images are theorised as capable of providing more efficient representations for solving design problems than other forms of representation such as propositions In the two studies undertaken in this thesis a case study methodology was employed The findings of the two studies support the arguments developed in this thesis that expert designers are able to form more complete and more detailed images of design problems and solutions than novices Expert designers have a large store of previous solutions that can be retrieved from long term memory as visual mental images Expert designers are able to recognise when their existing solutions can be used how they might be modified for use and where something new is required The study examined designing in terms of the deployment of procedures and the relationship among these procedures and with images usage It was found that designers traverse the design problem space using generative and exploratory procedures and that these procedures are facilitated by and facilitate the production of visual mental images The study provides a model of a problem space that can be used to explain the process of solving complex ill defined problems the cognitive processing involved in creative thinking and the role of mental imagery in an information processing theory of problem solving Conceptualising the problem space as containing a problem zone search and construction space and satisficing zone makes it possible to apply the concept of a problem space to problems that do not contain well specified problem and goal states and with a limited number of operators Integrating imagery theories with information processing theories provides an account of the process of solving complex design problems and the generation of novel solutions

*Imagery Patterns in Creative Problem Solving* T. H. Carl Krueger,1984 **Journal of Mental Imagery** ,2003 The Creative Problem Solver's Toolbox Richard Fobes,1993 *Spontaneous Creative Imagery* Aina O. Nucho,Martin L. Rossman,1995-01-01

## Whispering the Secrets of Language: An Emotional Quest through **Using Imagery In Creative Problem Solving**

In a digitally-driven earth where monitors reign great and quick interaction drowns out the subtleties of language, the profound secrets and psychological subtleties concealed within phrases often go unheard. Yet, located within the pages of **Using Imagery In Creative Problem Solving** a fascinating fictional treasure sporting with natural feelings, lies an extraordinary journey waiting to be undertaken. Penned by an experienced wordsmith, that marvelous opus encourages visitors on an introspective trip, lightly unraveling the veiled truths and profound influence resonating within ab muscles cloth of each word. Within the mental depths of this poignant evaluation, we will embark upon a sincere exploration of the book is primary subjects, dissect their interesting writing style, and fail to the powerful resonance it evokes strong within the recesses of readers hearts.

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