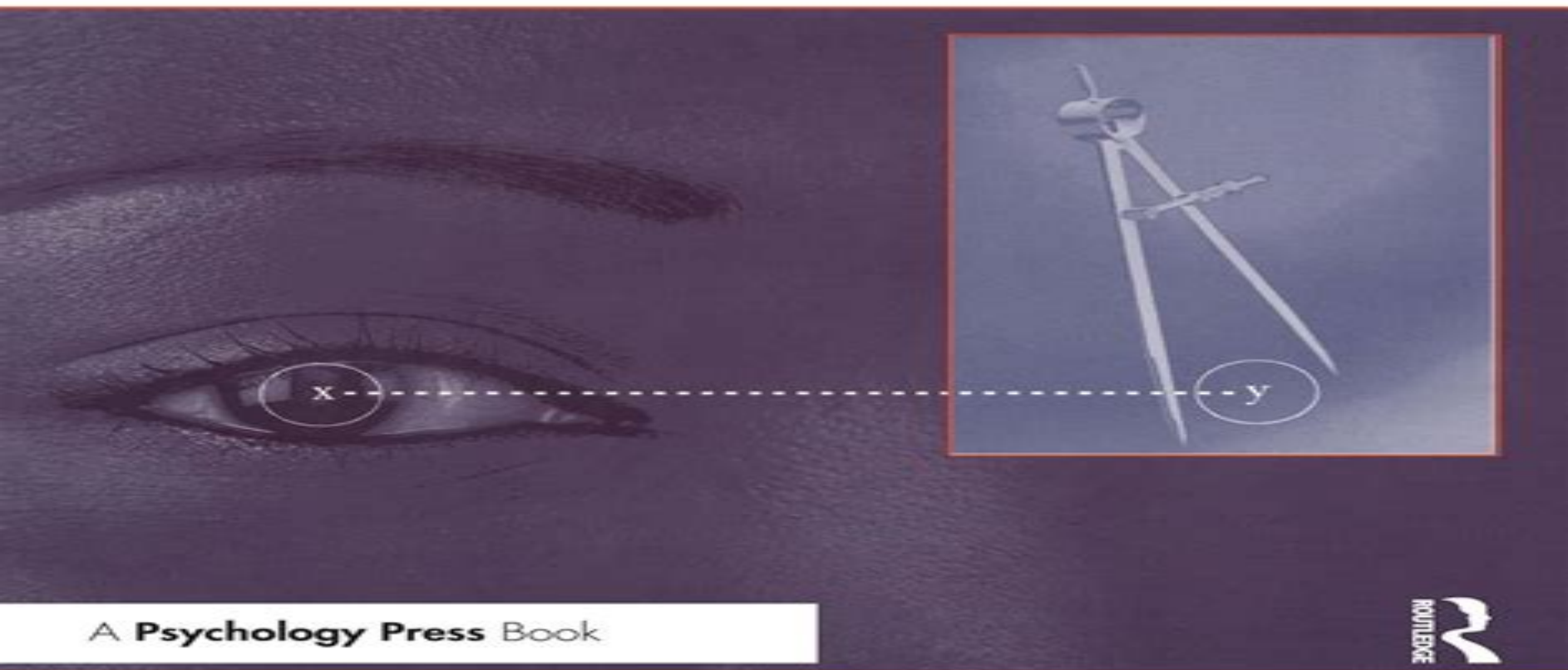


THE GEOMETRIES OF VISUAL SPACE



MARK WAGNER

Geometries Of Visual Space

**Paul Humphreys, Anjan
Chakravartty, Margaret
Morrison, Andrea Woody**



Geometries Of Visual Space:

The Geometries of Visual Space Mark Wagner, 2006 First Published in 2006 Routledge is an imprint of Taylor Francis an informa company

The Geometries of Visual Space Mark Wagner, 2012-11-12 When most people think of space they think of physical space However visual space concerns space as consciously experienced and it is studied through subjective measures such as asking people to use numbers to estimate perceived distances areas angles or volumes This book explores the mismatch between perception and physical reality and describes the many factors that influence the perception of space including the meaning assigned to geometric concepts like distance the judgment methods used to report the experience the presence or absence of cues to depth and the orientation of a stimulus with respect to point of view The main theme of the text is that no single geometry describes visual space but that the geometry of visual space depends upon the stimulus conditions and mental shifts in the subjective meaning of size and distance In addition *The Geometries of Visual Space* contains philosophical mathematical and psychophysical background material looks at synthetic approaches to space perception including work on hyperbolic spherical and Euclidean geometries presents a meta analysis of studies that ask observers to directly estimate size distance area angle and volume looks at the size constancy literature in which observers are asked to adjust a comparison stimulus to match a variety of standards at different distances away discusses research that takes a multi dimensional approach toward studying visual space and discusses how spatial experience is influenced by memory While this book is primarily intended for scholars in perception mathematical psychology and psychophysics it will also be accessible to a wider audience since it is written at a readable level It will make a good graduate level textbook on space perception

The Geometry of Visual Space Raymond H. Cuijpers, 2000

Space-Time Geometries for Motion and Perception in the Brain and the Arts Tamar Flash, Alain Berthoz, 2021-01-04 This book is based on a two day symposium at the Paris Institute of Advanced Study titled space time geometries and movement in the brain and the arts It includes over 20 chapters written by the leading scientists and artists who presented their related research studies at the symposium and includes six sections the first three focus on space time geometries in perception action and memory while the last three focus on specific artistic domains drawing and painting dance music digital arts and robotics The book is accompanied by a dedicated webpage including related images and videos There is an ever growing interest in the topics covered by this book Space and time are of fundamental importance for our understanding of human perception action memory and cognition and are entities which are equally important in physics biology neuroscience and psychology Highly prominent scientists and mathematicians have expressed their belief that our bodies and minds shape the ways we perceive space and time and the physical laws we formulate Understanding how the brain perceives motion and generates bodily movements is of great significance There is also growing interest in studying how space time and movement subserve artistic creations in different artistic modalities e g fine arts digital and performing arts and music This interest is inspired by the idea that artists make

intuitive use of the principles and simplifying strategies used by the brain in movement generation and perception Building upon new understanding of the spatio temporal geometries subserving movement generation and perception by the brain we can start exploring how artists make use of such neuro geometrical and neuro dynamic representations in order to express artistic concepts and emotionally affect the human observers and listeners Scientists have also started formulating new ideas of how aesthetic judgements emerge from the principles and brain mechanisms subserving motor control and motion perception Covering novel and multidisciplinary topics this advanced book will be of interest to neuroscientists behavioral scientists artificial intelligence and robotics experts students and artists

The Geometry of Vision and the Mind Body Problem Robert E. French, 1987 This book focuses on the philosophy of perception with particular emphasis on the geometry of phenomenal visual space and mind body issues concerning the relationships between that space and neural activity in the brain The contents include a detailed attack on naive realism and a defense of the causal theory of perception along with analyses of both the topology and metric structure of visual space It is shown how a variable curvature geometry for visual space can account for phenomenal visual depth perception and an extension of that analysis is given to the other sense systems The final chapter defends the claim that the conscious mind is a spatial entity but still questions whether a physicalist reduction can be made of it to activity in the brain

The Fourth Dimension and Non-Euclidean Geometry in Modern Art, revised edition Linda Dalrymple Henderson, 2018-05-18 The long awaited new edition of a groundbreaking work on the impact of alternative concepts of space on modern art In this groundbreaking study first published in 1983 and unavailable for over a decade Linda Dalrymple Henderson demonstrates that two concepts of space beyond immediate perception the curved spaces of non Euclidean geometry and most important a higher fourth dimension of space were central to the development of modern art The possibility of a spatial fourth dimension suggested that our world might be merely a shadow or section of a higher dimensional existence That iconoclastic idea encouraged radical innovation by a variety of early twentieth century artists ranging from French Cubists Italian Futurists and Marcel Duchamp to Max Weber Kazimir Malevich and the artists of De Stijl and Surrealism In an extensive new Reintroduction Henderson surveys the impact of interest in higher dimensions of space in art and culture from the 1950s to 2000 Although largely eclipsed by relativity theory beginning in the 1920s the spatial fourth dimension experienced a resurgence during the later 1950s and 1960s In a remarkable turn of events it has returned as an important theme in contemporary culture in the wake of the emergence in the 1980s of both string theory in physics with its ten or eleven dimensional universes and computer graphics Henderson demonstrates the importance of this new conception of space for figures ranging from Buckminster Fuller Robert Smithson and the Park Place Gallery group in the 1960s to Tony Robbin and digital architect Marcos Novak

The Oxford Handbook of Philosophy of Science Paul Humphreys, Anjan Chakravartty, Margaret Morrison, Andrea Woody, 2016 This Handbook combines coverage of traditional areas in the philosophy of science such as causation explanation and theory

structure with chapters on new areas such as philosophy of astronomy data complexity theory and emergence The articles are accessible to scientifically educated non philosophers as well as to philosophers

A Course in Modern Geometries

Judith N. Cederberg,2013-03-09 A Course in Modern Geometries is designed for a junior senior level course for mathematics majors including those who plan to teach in secondary school Chapter 1 presents several finite geometries in an axiomatic framework Chapter 2 introduces Euclid s geometry and the basic ideas of non Euclidean geometry The synthetic approach of Chapters 1 2 is followed by the analytic treatment of transformations of the Euclidean plane in Chapter 3 Chapter 4 presents plane projective geometry both synthetically and analytically The extensive use of matrix representations of groups of transformations in Chapters 3 4 reinforces ideas from linear algebra and serves as excellent preparation for a course in abstract algebra Each chapter includes a list of suggested sources for applications and or related topics

The Global Structure of Visual Space Tarow Indow,2004 The space we see around us is the end product of a long series of processes physical physiological and cognitive It is a highly structured perceptual entity In contrast to the fact that most studies of visual perception are concerned with local phenomena in this visual space the main purpose of this book is to discuss the global structure of visual space The physical space which surrounds us is of Euclidean structure but its perceived image is not necessarily structured in that way Problems such as why the sky appears as a vault and why the horizon is located at eye level are discussed in the book

Philosophical Problems of Space and Time Adolf Grünbaum,2012-12-06 It is ten years since Adolf Griinbaum published the first edition of this book It was promptly recognized to be one of the few major works in the philosophy of the natural sciences of this generation In part this is so because Griinbaum has chosen a problem basic both to philosophy and to the natural sciences the nature of space and time and in part this is so because he so admirably exemplifies that Aristotelian devotion to the intimate and mutual dependence of actual science and philosophical understanding More than this however the quality of his work derives from his achievement in combining detail with scope The problems of space and time have been among the most difficult in contemporary and classical thought and Griinbaum has been responsible to the full depth and complexity of these difficulties This revised and enlarged second edition is a work in progress in the tradition of reflective analysis of modern science of such figures as Ehrenfest and Reichenbach In publishing this work among the Boston Studies in the Philosophy of Science we hope to contribute to and encourage that broad tradition of natural philosophy which is marked by the close collaboration of philoso phers and scientists To this end we have published the proceedings of our Colloquia of meetings and conferences here and abroad as well as the works of single authors

Thinking and the Structure of the World / Das Denken und die Struktur der Welt

Klaus Jacobi,Helmut Pape,2011-08-02 No detailed description available for Thinking and the Structure of the World Das Denken und die Struktur der Welt

Perceiving in Depth, Volume 1 Ian P. Howard,2012-02-24 The three volume work Perceiving in Depth is a sequel to Binocular Vision and Stereopsis and to Seeing in Depth both by Ian P Howard and Brian J Rogers This

work is much broader in scope than the previous books and includes mechanisms of depth perception by all senses including aural electrosensory organs and the somatosensory system Volume 1 reviews sensory coding psychophysical and analytic procedures and basic visual mechanisms Volume 2 reviews stereoscopic vision Volume 3 reviews all mechanisms of depth perception other than stereoscopic vision The three volumes are extensively illustrated and referenced and provide the most detailed review of all aspects of perceiving the three dimensional world Volume 1 starts with a review of the history of visual science from the ancient Greeks to the early 20th century with special attention devoted to the discovery of the principles of perspective and stereoscopic vision The first chapter also contains an account of early visual display systems such as panoramas and peepshows and the development of stereoscopes and stereophotography A chapter on the psychophysical and analytic procedures used in investigations of depth perception is followed by a chapter on sensory coding and the geometry of visual space An account of the structure and physiology of the primate visual system proceeds from the eye through the LGN to the visual cortex and higher visual centers This is followed by a review of the evolution of visual systems and of the development of the mammalian visual system in the embryonic and post natal periods with an emphasis on experience dependent neural plasticity An account of the development of perceptual functions especially depth perception is followed by a review of the effects of early visual deprivation during the critical period of neural plasticity on amblyopia and other defects in depth perception Volume 1 ends with accounts of the accommodation mechanism of the human eye and vergence eye movements

Perceiving Geometry Catherine Q. Howe, Dale Purves, 2005-11-18 During the last few centuries natural philosophers and more recently vision scientists have recognized that a fundamental problem in biological vision is that the sources underlying visual stimuli are unknowable in any direct sense because of the inherent ambiguity of the stimuli that impinge on sensory receptors The light that reaches the eye from any scene conflates the contributions of reflectance illumination transmittance and subsidiary factors that affect these primary physical parameters Spatial properties such as the size distance and orientation of physical objects are also conflated in light stimuli As a result the provenance of light reaching the eye at any moment is uncertain This quandary is referred to as the inverse optics problem This book considers the evidence that the human visual system solves this problem by incorporating past human experience of what retinal images have typically corresponded to in the real world

Space and Geometry in the Light of Physiological, Psychological and Physical Inquiry Ernst Mach, 1906

Mental Models and the Mind Carsten Held, Gottfried M-GV Vosgerau, Markus Knauff, 2006-01-11 Cognitive psychology cognitive neuroscience and philosophy of mind are names for three very different scientific fields but they label aspects of the same scientific goal to understand the nature of mental phenomena Today the three disciplines strongly overlap under the roof of the cognitive sciences The book's purpose is to present views from the different disciplines on one of the central theories in cognitive science the theory of mental models Cognitive psychologists report their research on the representation and processing of mental models in human memory

Cognitive neuroscientists demonstrate how the brain processes visual and spatial mental models and which neural processes underlie visual and spatial thinking Philosophers report their ideas about the role of mental models in relation to perception emotion representation and intentionality The single articles have different and mutually complementing goals to introduce new empirical methods and approaches to report new experimental results and to locate competing approaches for their interpretation in the cross disciplinary debate The book is strongly interdisciplinary in character It is especially addressed to researchers in any field related to mental models theory as both a reference book and an overview of present research on the topic in other disciplines However it is also an ideal reader for a specialized graduate course Examines the theory of mental models from the perspectives of cognitive psychology cognitive neuroscience and philosophy of the mind Introduces new empirical methods experimental results and interdisciplinary yet complementary approaches Serves as a reference book and an overview of current research

Space, Time and Geometry Patrick Suppes, 2013-03-09 The articles in this volume have been stimulated in two different ways More than two years ago the editor of Synthese Jaakko Hintikka announced a special issue devoted to space and time and articles were solicited Part of the reason for that announcement was also the second source of papers Several years ago I gave a seminar on special relativity at Stanford and the papers by Domotor Harrison Hudgin Latzer and myself partially arose out of discussion in that seminar All of the papers except those of Grünbaum Fine the second paper of Friedman and the paper of Adams appeared in a special double issue of Synthese 24 1972 Nos 1 2 I am pleased to have been able to add the four additional papers mentioned in making the special issue a volume in the Synthese Library Of these four additional articles only the one by Fine has previously appeared in print Synthese 22 1971 448 481 its relevance to the present volume is apparent In preparing the papers for publication and in carrying out the various editorial chores of such a task I am very much indebted to Mrs Lillian O Toole for her extensive assistance

INTRODUCTION The philosophy of space and time has been of permanent importance in philosophy and most of the major historical figures in philosophy such as Aristotle Descartes and Kant have had a good deal to say about the nature of space and time

A Theory of Sentience Austen Clark, 2000 Austen Clark offers a general account of the forms of mental representation that we call sensory To sense something one must have some capacity to discriminate among sensory qualities but there are other requirements What are they and how can they be put together to yield full blown sensing Drawing on the findings of current neuroscience Clark proposes and defends the hypothesis that the various modalities of sensation share a generic form that he calls feature placing Sensing proceeds by picking out place times in or around the body of the sentient organism and characterizing qualities features that appear at those place times Such feature placing is a primitive kind probably the most primitive kind of mental representation Once its peculiarities have been described many of the puzzles about the intentionality of sensation and the phenomena that lead some to label it pseudo intentional can be resolved The hypothesis casts light on many other troublesome phenomena including the varieties of illusion the problem of

projection the notion of a visual field the location of after images the existence of sense data and the role of perceptual demonstratives A Theory of Sentience will interest anyone interested in the topics of sensation representation or phenomenal consciousness

Problems from Reid James Van Cleve, 2015-08-25 In this systematic study James Van Cleve expounds Thomas Reid's positions and arguments on topics in the philosophy of perception knowledge and action taking interpretive stands on points where his meaning is disputed and assessing the extent to which his ideas make valuable contributions to issues philosophers are discussing today

Seeing Spatial Form Michael Jenkin, Laurence R. Harris, 2006 Accompanying CD ROM contains color imagery and video clips associated with various chapters and the York Vision Conference itself

Page v **Geometric Computing with Clifford Algebras** Gerald Sommer, 2013-06-29 Clifford algebra then called geometric algebra was introduced more than a century ago by William K Clifford building on work by Grassmann and Hamilton Clifford or geometric algebra shows strong unifying aspects and turned out in the 1960s to be a most adequate formalism for describing different geometry related algebraic systems as specializations of one mother algebra in various subfields of physics and engineering Recent work outlines that Clifford algebra provides a universal and powerful algebraic framework for an elegant and coherent representation of various problems occurring in computer science signal processing neural computing image processing pattern recognition computer vision and robotics This monograph like anthology introduces the concepts and framework of Clifford algebra and provides computer scientists engineers physicists and mathematicians with a rich source of examples of how to work with this formalism

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Geometries Of Visual Space Introduction

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