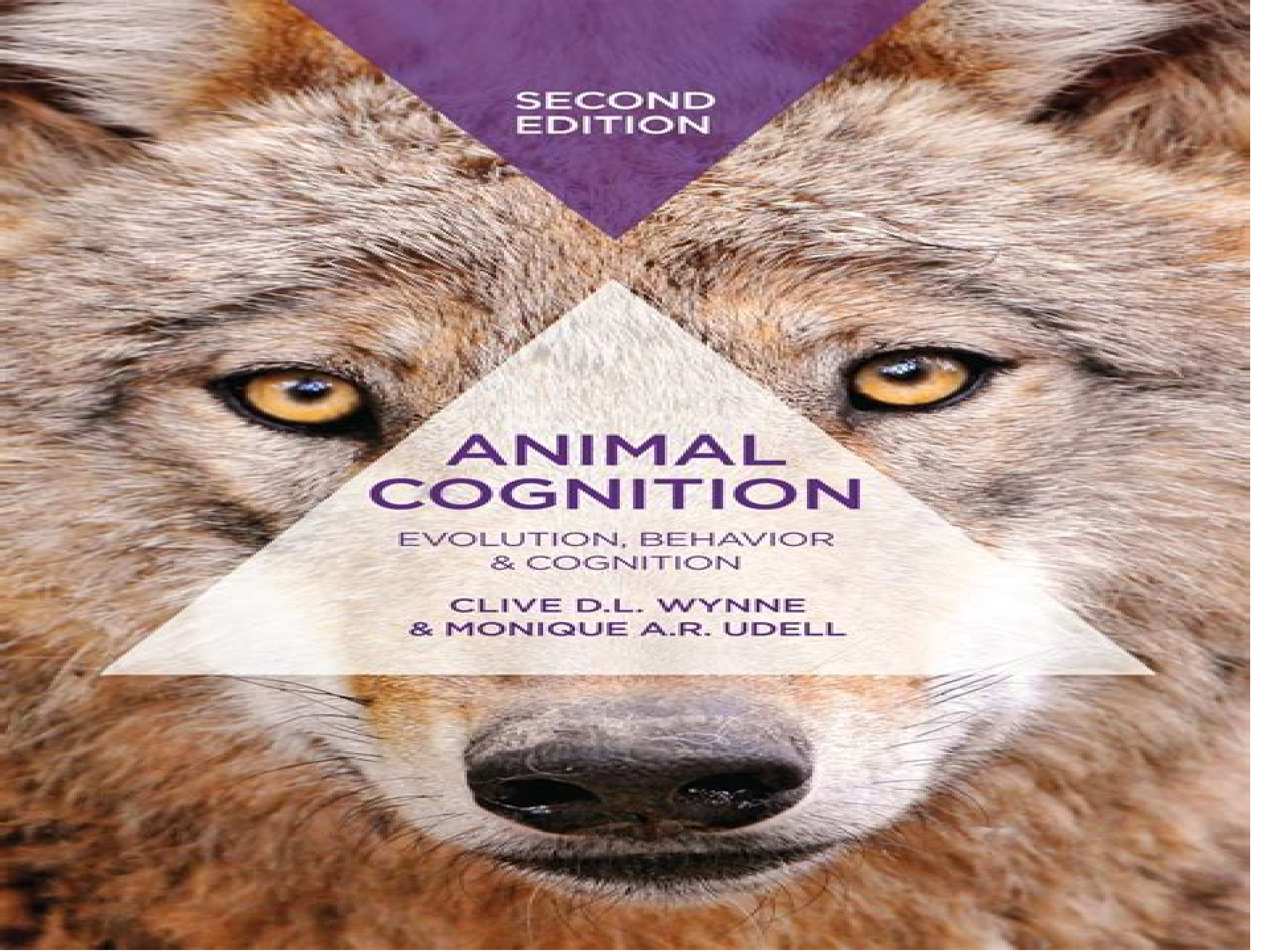




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ANIMAL COGNITION

EVOLUTION, BEHAVIOR
& COGNITION

CLIVE D.L. WYNNE
& MONIQUE A.R. UDELL

Animal Cognition Evolution Behavior And Cognition

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Cognition, Evolution, and Behavior Sara J. Shettleworth, 2010-04-10 How do animals perceive the world learn remember search for food or mates communicate and find their way around Do any nonhuman animals count imitate one another use a language or have a culture What are the uses of cognition in nature and how might it have evolved What is the current status of Darwin's claim that other species share the same mental powers as humans but to different degrees In this completely revised second edition of *Cognition Evolution and Behavior* Sara Shettleworth addresses these questions among others by integrating findings from psychology behavioral ecology and ethology in a unique and wide ranging synthesis of theory and research on animal cognition in the broadest sense from species specific adaptations of vision in fish and associative learning in rats to discussions of theory of mind in chimpanzees

dogs and ravens She reviews the latest research on topics such as episodic memory metacognition and cooperation and other regarding behavior in animals as well as recent theories about what makes human cognition unique In every part of this new edition Shettleworth incorporates findings and theoretical approaches that have emerged since the first edition was published in 1998 The chapters are now organized into three sections Fundamental Mechanisms perception learning categorization memory Physical Cognition space time number physical causation and Social Cognition social knowledge social learning communication Shettleworth has also added new chapters on evolution and the brain and on numerical cognition and a new chapter on physical causation that integrates theories of instrumental behavior with discussions of foraging planning and tool using

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Animal Cognition Mary C. Olmstead, 2016 The study of animal cognition has undergone enormous growth in the last two decades In the early part of the 20th century the work was conducted primarily by psychologists who studied animal behavior in the laboratory as a model of human cognition By the middle of the century ethological studies of animal behavior in the natural environment revealed an amazing array of cognitive abilities in different species worthy of study in their own right In many cases scientists in these two disciplines were investigating the same process e g learning navigation communication from very different perspectives Psychologists tended to focus on developmental or mechanistic explanations whereas ethologists and behavioral ecologists emphasised adaptive or functional ones Eventually it became clear that the two fields are complementary with a full description of any cognitive process depending on both proximate and ultimate explanations This text builds on the tradition of combining data

from laboratory and field studies of animal behavior as a means of understanding the evolution and function of cognition. In keeping with contemporary terminology, cognition refers to a wide range of processes from modification of simple reflexes to abstract concept learning to social interactions to the expression of emotions such as guilt. These are examined throughout the text in animal groups ranging from insects to great apes. A general theme across chapters is that the evolution of behavioral patterns is adaptive, thereby reflected in underlying neural structures. Many of the authors go on to examine the adaptive significance of a behavior in relation to a species' ecological history in order to develop theories of cognitive evolution. These issues are becoming increasingly important in a world with rapidly changing environments to which all animals, including humans, must adjust. A primary goal of this volume is to introduce the exciting field of animal cognition to a new group of young scientists. The editor also hopes to encourage experienced researchers to expand their ideas of what constitutes animal cognition and how it can be studied in the future. From the editor's own reading, one area of potential growth is the development of more formal models of cognition to guide quantitative predictions of behavior. Although no chapter focuses exclusively on humans, readers should have no difficulty extrapolating research findings and theories from other species to those of our own. Differences are clearly based on degree, not kind. Encyclopedia of Animal Cognition and Behavior, 19??

Diversity of Cognition Kazuo Fujita, Shōji Itakura, 2006. Cognition is a form of adaptation to the environment. It has been invented by organisms with well-developed neural systems. Consequently, like other adaptive characteristics, cognition is on one hand supposedly continuous among species; on the other, it is diverse and depends upon the two constraints: phylogenetic constraints which restrain the body structure of the organism and ecological constraints which correlate with the lifestyle of the organism. This book highlights the diverse aspects of cognition among a wide variety of organisms. Seventeen leading researchers in the field from seven countries illustrate the diverse aspects of cognition among various organisms ranging from insects to humans of different ages and pathological states. This volume will inspire scientists and students who strive to understand cognition and, in particular, those who aim at doing so from genetic and adaptive perspectives. *The Behavior of Animals* Johan J. Bolhuis, Luc-Alain Giraldeau, Jerry A. Hogan, 2021-12-08. *The Behavior of Animals*: An updated view of animal behavior studies featuring global experts. *The Behavior of Animals*, Second Edition, provides a broad overview of the current state of animal behavior studies with contributions from international experts. This edition includes new chapters on hormones and behavior, individuality, and human evolution. All chapters have been thoroughly revised and updated and are supported by color illustrations, informative callouts, and accessible presentation of technical information. Provides an introduction to the study of animal behavior. Looks at an extensive scope of topics from perception, motivation, and emotion, biological rhythms, and animal learning to animal cognition, communication, mate choice, and individuality. Explores the evolution of animal behavior, including a critical evaluation of the assumption that human beings can be studied as if they were any other animal species. Students will benefit from an updated textbook in

which a variety of contributors provide their expertise and global perspective in specialized areas **Animal Cognition and Behavior** R.L. Mellgren, 2000-04-01 Contributed chapters by psychologists and behavioral biologists provide a broad coverage of animal behavior and governing brain processes Topics covered include foraging behavior and strategies economics and psychology memory of events and space time perception expectancies food preferences and diet selection behavior variability and the concept of mind The volume is designed to satisfy an interdisciplinary audience embracing the behavioristic tradition biological and physiological approaches and evolutionary theory as philosophical underpinnings to the chapters Also achieved in this work is a good balance between empirical results and theory Evolution of Learning and Memory Mechanisms Mark A. Krause, Karen L. Hollis, Mauricio R. Papini, 2022-05-19 This book examines how evolution influences learning and memory processes in both human and nonhuman animals

Animal Cognition Evolution Behavior And Cognition Book Review: Unveiling the Power of Words

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