

# COGNITIVE TOOLS

Cognitive tools are educational technologies that help students learn. They enable students to think more deeply about a topic or perform at a higher level than we would without them.

## DEFINITION

Cognitive tools are “computational tools that can function as intellectual partners of the students, while they are engaged in discovery learning/constructivistic activities.” (Korres, 2019, p. 7) A cognitive tool does not do the thinking for students but provide strategies and guidance to help students to process information more efficiently.

## EXAMPLES

1. AI Chat Bots (e.g. ChatGPT)
2. Calculators
3. Mind Maps
4. Smart Watches
5. Microworld Games
6. GPS Mobile Apps

# Cognition And Tool Use Cognition And Tool Use

**Tracy Henley, Matt Rossano**



## **Cognition And Tool Use Cognition And Tool Use:**

Cognition and Tool Use Christopher Baber, 2003-07-24 The ability to use tools is a distinguishing feature of human beings It represents a complex psychomotor activity that we are only now beginning to comprehend Robust new theoretical accounts allow us to better understand how people use tools and explain differences in human and animal tool use from the perspective of cognitive science Our understanding needs to be grounded upon research into how people use tools which draws upon many disciplines from ergonomics to anthropology to cognitive science to neuropsychology Cognition and Tool Use Forms of Engagement in Human and Animal Use of Tools presents a single coherent account of human tool use as a complex psychomotor activity It explains how people use tools and how this activity can succeed or fail then describes the design and development of usable tools This book considers contemporary tool use in domains such as surgery and considers future developments in human computer interfaces such as haptic virtual reality and tangible user interfaces No other single text brings together the research from the different disciplines ranging from archaeology and anthropology to psychology and ergonomics which contribute to this topic Graduate students professionals and researchers will find this guide to be invaluable

**Cognition and Tool Use** Charles M. Keller, Janet Dixon Keller, 1996-09-28 Anthropologists Janet and Charles Keller provide an account of human accomplishment based on ethnographic study Blacksmithing the transformation of glowing iron into artistic and utilitarian products is the activity they chose to develop a study of situated learning This domain permeated by visual imagery and physical virtuosity rather than verbal logic appears antithetical to the usual realms of cognitive study For this reason it provides a new entree to human thought and an empirical test for an anthropology of knowledge

**Tool Use and Causal Cognition** Teresa McCormack, Christoph Hoerl, Stephen Butterfill, 2011-08-25 What cognitive abilities underpin the use of tools and how are tools and their properties represented or understood by tool users Does the study of tool use provide us with a unique or distinctive source of information about the causal cognition of tool users Tool use is a topic of major interest to all those interested in animal cognition because it implies that the animal has knowledge of the relationship between objects and their effects There are countless examples of animals developing tools to achieve some goal chimps sharpening sticks to use as spears bonobos using sticks to fish for termites and New Caledonian crows developing complex tools to extract insects from logs Studies of tool use have been used to examine an exceptionally wide range of aspects of cognition such as planning problem solving and insight naive physics social relationship between action and perception A key debate in recent research on animal cognition concerns the level of cognitive sophistication that is implied by animal tool use and developmental psychologists have been addressing related questions regarding the processes through which children acquire the ability to use tools In neuropsychology patterns of impairments in tool use due to brain damage and studies of neural changes associated with tool use have also led to debates about the different types of cognitive abilities that might underpin tool use and about how tool use may change the way space or the body is represented

Tool Use and Causal Cognition provides a new interdisciplinary perspective on these issues with contributions from leading psychologists studying tool use and philosophers providing new analyses of the nature of causal understanding A ground breaking volume which covers several disciplines this volume will be of interest to psychologists including animal researchers and developmental psychologists as well as philosophers and neuroscientists

**Embodying Tool Use: From Cognition to Neurorehabilitation** Mariella Pazzaglia, Giulia Galli, Yusuf Ozgur Cakmak, Jan Babic, 2020-12-18 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office frontiersin.org about contact

The cognitive and neural bases of human tool use François Osiurak, Cristina Massen, 2015-02-12 Humans are not unique in using tools But human tool use differs from that known to occur in nonhumans in being very frequent spontaneous and diversified So a fundamental issue is what are the cognitive and neural bases of human tool use This Research Topic of Frontiers provides a venue for leading researchers in the field of tool use to present original research papers integrative reviews or theoretical articles that further our understanding of this topic Articles address a wide range of issues including for instance the nature of the underlying representations e.g. conceptual sensorimotor the mechanisms supporting the incorporation of tools into body schema the link between imitation and tool use or the evolutionary origins of human tool use Articles are included from experimental psychology neuropsychology neuroimaging neurophysiology developmental psychology ethology comparative psychology and ergonomics The goal of this Research Topic of Frontiers is to provide a state of the art view of the field

**Animal Cognition** Jacques Vauclair, 1996 Animal Cognition presents a lucid and comprehensive overview of cognitive processes in animals bees and wasps cats and dogs dolphins and sea otters pigeons titmice and chimpanzees and offers a novel discussion of the ways in which Piagetian concepts may be used to develop models for the study of animal cognition

**Primate Cognition** Michael Tomasello, Josep Call, 1997 This book reviews all that is scientifically known about the cognitive skills of non human primates and assesses the current state of our knowledge

**Embodied and grounded cognition** Anna Borghi, Diane Pecher, 2012-01-01 In the last 10-15 years the embodied and grounded cognition approach has become widespread in all fields related to cognitive science such as cognitive and social psychology neuroscience philosophy anthropology computational modelling and robotics According to this approach our cognitive activity is grounded in sensory motor processes and situated in specific contexts and situations Therefore in this view concepts consist of the reactivation of the same neural pattern that is present when we perceive and/or interact with the objects they refer to In the same way understanding language would imply forming a mental simulation of what is

linguistically described This simulation would entail the recruitment of the same neurons that are activated when actually acting or perceiving the situation action emotion object or entity described by language In the last years a lot of evidence has been collected in favour of EC and GC view The aim of this Research Topic is twofold First it intends to give an idea of the field of embodied and grounded cognition in its broadness We therefore intend to invite scientists of different disciplines anthropology philosophy linguistics cognitive and social psychology neuroscience computer science to submit their proposals The second aim of this Research Topic is to focus on some challenges that in our opinion embodied and grounded theories of cognition need to face First we believe that one important challenge for EC and GC views is to account for the way the so called abstract concepts and abstract words are represented Evidence on the representation of concrete concepts and words is compelling whereas evidence on abstract concepts representation is still too scarce and limited to restricted domains We therefore welcome proposals dealing with this complex issue Second we think that embodied and grounded theories of cognition would need to formulate more precise hypotheses and that in general within the field a larger theoretical effort should be made It is striking that even if a lot of work in the field of computational modelling and robotics starts from an embodied approach experimental and modelling work on embodied cognition remain somehow separate We therefore invite researchers to submit papers proposing models which might help to explain phenomena as well as to constrain and specify in more detail the predictions and the claims advanced within the framework of EC and GC theories

Evolution of the Brain, Cognition, and Emotion in Vertebrates Shigeru Watanabe, Michel A Hofman, Toru Shimizu, 2017-09-05 This book presents a new view on the evolution of the brain cognition and emotion Around a half century ago Professor Harry Jerison published a seminal book entitled *Evolution of the Brain and Intelligence* Since then there has been a series of dramatic methodological and conceptual changes which have led to many new insights into the understanding of brain evolution and cognition This book is particularly focused on three significant aspects of such changes First taking advantage of a new integrated approach called evolutionary developmental biology or Evo Devo researchers have started to look into vertebrate brain evolution from the developmental perspective Second comparative neuroanatomists have accumulated a large amount of information about the brains of diverse animal groups to refute the old fashioned idea that vertebrate brains evolved linearly from non mammals to mammals Third comparative behavioral studies have demonstrated that sophisticated cognition and emotion are not unique to some primates but are also found in many non primate and even non mammalian species This work will appeal to a wide readership in such fields as neuroscience cognitive science and behavioral science

*Tool Use in Animals* Crickette Marie Sanz, Josep Call, Christophe Boesch, 2013 The last decade has witnessed remarkable discoveries and advances in our understanding of the tool using behaviour of animals Wild populations of capuchin monkeys have been observed to crack open nuts with stone tools similar to the skills of chimpanzees and humans Corvids have been observed to use and make tools that rival in complexity the behaviours exhibited by the great apes Excavations of the nut cracking sites of

chimpanzees have been dated to around 4 5 thousand years ago Tool Use in Animals collates these and many more contributions by leading scholars in psychology biology and anthropology along with supplementary online materials into a comprehensive assessment of the cognitive abilities and environmental forces shaping these behaviours in taxa as distantly related as primates and corvids Tool Use in Animals Crickette M. Sanz,Josep Call,Christophe Boesch,2013-03-07

Presentation of groundbreaking research on an extensive range of tool using animals looking particularly at the evolution of cognitive abilities **Evolutionary Foundations of Learning and Cognition** Georgian Federation of Psychologists Academic Team, The field of evolutionary psychology has provided invaluable insights into the origins and mechanisms underlying human learning and cognition At its core this paradigm proposes that the architecture of the mind is the product of specific and recurrent selection pressures acting over deep evolutionary time Shackelford Liddle 2014 From this perspective the human mind is not a blank slate but rather a set of specialized computational mechanisms designed to solve adaptive problems faced by our hunter gatherer ancestors Shackelford Liddle 2014 Evolutionary psychologists argue that attention to adaptive function is key to understanding the design of the human mind They posit that the principles underlying biological evolution such as random mutation and natural selection can be applied to the development of human knowledge and problem solving Sweller Sweller 2006 This view suggests that long term memory functions akin to a genome with learning from others analogous to biological reproduction Similarly working memory when processing novel information can be viewed as an epigenetic system managing environmental information while long term working memory is the epigenetic system s management of genomic information Sweller Sweller 2006 This integrated perspective on the nature of human learning and thought has important implications for how we approach the presentation and acquisition of information The suggestion that the development of human knowledge and biological evolution by natural selection share a common underlying base can be traced back to the ideas of Charles Darwin and has since gained significant traction in the field of evolutionary psychology Cosmides Tooby 2005 The core theoretical assumptions of evolutionary psychology as well as the significant empirical findings that have emerged from this approach offer a powerful framework for unifying the currently disparate subdisciplines of psychological science *Tool Use in Animals* Crickette Marie Sanz,Josep Call,Christophe Boesch,2013 The last decade has witnessed remarkable discoveries and advances in our understanding of the tool using behaviour of animals Wild populations of capuchin monkeys have been observed to crack open nuts with stone tools similar to the skills of chimpanzees and humans Corvids have been observed to use and make tools that rival in complexity the behaviours exhibited by the great apes Excavations of the nut cracking sites of chimpanzees have been dated to around 4 5 thousand years ago Tool Use in Animals collates these and many more contributions by leading scholars in psychology biology and anthropology along with supplementary online materials into a comprehensive assessment of the cognitive abilities and environmental forces shaping these behaviours in taxa as distantly related as primates and corvids

Comparative Cognition Mary C. Olmstead, Valerie A. Kuhlmeier, 2015-01-15 Integrating developments from psychology, ethology, and neuroscience, this is an undergraduate introduction to cognitive processes across species. The authors merge classic studies and contemporary research to give students a full picture of the evolving field of comparative cognition. Engaging students in the discipline from its roots in animal learning and evolutionary biology through to current research, the chapters cover both controlled laboratory and comparative cross-species studies in the natural environment. This approach provides students with complementary ethological and neurobiological perspectives on cognition. Feature boxes encourage active and engaged learning, giving a deeper understanding of topics discussed in the main text. These are supported by end-of-chapter questions to check understanding and encourage wider thinking around topics. Online resources include solutions to questions in the book, advanced material, PowerPoint lecture slides, and additional questions, all available at [www.cambridge.org/cognition](http://www.cambridge.org/cognition).

**Psychology and Cognitive Archaeology** Tracy Henley, Matt Rossano, 2021-11-14 Psychology and Cognitive Archaeology demonstrates the potential of using cognitive archaeology framing to explore key issues in contemporary psychology and other behavioral sciences. This edited volume features psychologists exploring archaeological data concerning specific themes such as the use of tools, our child-rearing practices, our expressions of gender and sexuality, our sleep patterns, the nature of warfare, cultural practices, and the origins of religion. Other chapters touch on cognitive archaeological methods, the history of evolutionary approaches in psychology, and relevant philosophical considerations to further illustrate the interdisciplinary potential between archaeology and psychology. As a complementary counterpoint, the book also includes an archaeologist's perspective on these same topical matters, as well as robust introductory and concluding thoughts by the editors. This book will be an illuminating read for students and scholars of psychology, particularly theoretical, social, cognitive, and evolutionary psychology, as well as philosophy, archaeology, and anthropology.

*The Oxford Handbook of Comparative Cognition* Thomas R. Zentall, Edward A. Wasserman, 2012-03-20 In the past decade, the field of comparative cognition has grown and thrived. No less rigorous than purely behavioristic investigations, examinations of animal intelligence are useful for scientists and psychologists alike in their quest to understand the nature and mechanisms of intelligence. Extensive field research of various species has yielded exciting new areas of research, integrating findings from psychology, behavioral ecology, and ethology in a unique and wide-ranging synthesis of theory and research on animal cognition. The Oxford Handbook of Comparative Cognition contains sections on perception and illusion, attention and search, memory processes, spatial cognition, conceptualization and categorization, problem solving, and behavioral flexibility and social cognition processes, including findings in primate tool usage, pattern learning, and counting. The authors have incorporated findings and theoretical approaches that reflect the current state of the field. This comprehensive volume will be a must-read for students and scientists who want to know about the state of the art of the modern science of comparative cognition.

**Cognition and Interaction: From Computers to Smart Objects and Autonomous Agents** Amon Rapp, Maurizio

Tirassa, Tom Ziemke, 2019-10-10 Cognitive sciences have been involved under numerous accounts to explain how humans interact with technology as well as to design technological instruments tailored to human needs As technological advancements in fields like wearable and ubiquitous computing virtual reality robotics and artificial intelligence are presenting novel modalities for interacting with technology there are opportunities for deepening exploring and even rethinking the theoretical foundations of human technology use This volume entitled *Cognition and Interaction From Computers to Smart Objects and Autonomous Agents* is a collection of articles on the impacts that novel 3 September Frontiers in Psychology 2019 Cognition and Interaction interactive technologies are producing on individuals It puts together 17 works spanning from research on social cognition in human robot interaction to studies on neural changes triggered by Internet use that tackle relevant technological and theoretical issues in human computer interaction encouraging us to rethink how we conceptualize technology its use and development The volume addresses fundamental issues at different levels The first part revolves around the biological impacts that technologies are producing on our bodies and brains The second part focuses on the psychological level exploring how our psychological characteristics may affect the way we use understand and perceive technology as well as how technology is changing our cognition The third part addresses relevant theoretical problems presenting reflections that aim to reframe how we conceptualize ourselves technology and interaction itself Finally the last part of the volume pays attention to the factors involved in the design of technological artifacts providing suggestions on how we can develop novel technologies closer to human needs Overall it appears that human computer interaction will have to face a variety of challenges to account for the rapid changes we are witnessing in the current technology landscape

*Educational Media and Technology Yearbook* Michael Orey, Stephanie A. Jones, Robert Maribe Branch, 2011-12-13 The Educational Media and Technology Yearbook is dedicated to theoretical empirical and practical approaches to educational media development All chapters are invited and selected based on a variety of strategies to determine current trends and issues in the field The 2011 edition will highlight innovative Trends and Issues in Learning Design and Technology Trends and Issues in Information and Library Science and features a sections that list and describe Media Related Organizations and Associations in North America departments in the allied fields and a listing of journals in the field The Educational Media and Technology Yearbook a scholarly resource for a highly specialized professional community is an official publication of the AECT and has been published annually for 35 years

**The Oxford Handbook of Cognitive Archaeology** Thomas Wynn, Karenleigh Overmann, Frederick Coolidge, 2024-03-27 The Oxford Handbook of Cognitive Archaeology is a landmark publication showcasing the theories methods and accomplishments of archaeologists who investigate the human mind including its evolutionary development its ideation thoughts and beliefs and its very nature through material forms The volume encompasses the wide spectrum of the discipline showcasing contributions from more than 50 established and emerging scholars from Europe Africa Asia Australia and the Americas Prominent among these are

contributions that discuss the epistemological frameworks of both the evolutionary and ideational approaches and the leading theories that ground interpretations. Significantly, the majority of chapters deliver substantive contributions that analyze specific examples of material culture from the oldest known stone tools to ceramic and rock art traditions of the recent millennium. These examples include the gamut of methods and techniques including typology, replication studies, changes, operational neuroarchaeology, ethnographic comparison, and the direct historical approach. *Computers As Cognitive Tools* Susanne P. Lajoie, 2020-04-15

Since the publication of the first edition of *Computers as Cognitive Tools* in 1993, rapid changes have taken place in the uses of technology for educational purposes and in the theories underlying such uses. Changes in perspectives on thinking and learning are guiding the instructional design of computer-based learning environments. *Computers as Cognitive Tools Volume II: No More Walls* provides examples of state-of-the-art technology-based research in the field of education and training. These examples are theory-driven and reflect the learning paradigms that are currently in use in cognitive science. The learning theories which consider the nature of individual learning as well as how knowledge is constructed in social situations include information processing, constructivism, and situativity. Contributors to this volume demonstrate some variability in their choice of guiding learning paradigms. This allows readers the opportunity to examine how such paradigms are operationalized and validated. An array of instructional and assessment approaches are described along with new techniques for automating the design and assessment process. New considerations are offered as possibilities for examining learning in distributed situations. A multitude of subject-matter areas are covered, including scientific reasoning and inquiry in biology, physics, medicine, electricity, teacher education, programming, and hypermedia composition in the social sciences and ecology. This volume reconsiders the initial camp analogy posited in the 1993 edition of *Computers as Cognitive Tools* and presents a mechanism for breaking camp to find new summits.

## **Cognition And Tool Use Cognition And Tool Use** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Cognition And Tool Use Cognition And Tool Use**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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