HAND AND MIND

What Gestures Reveal about Thought

David McNeill
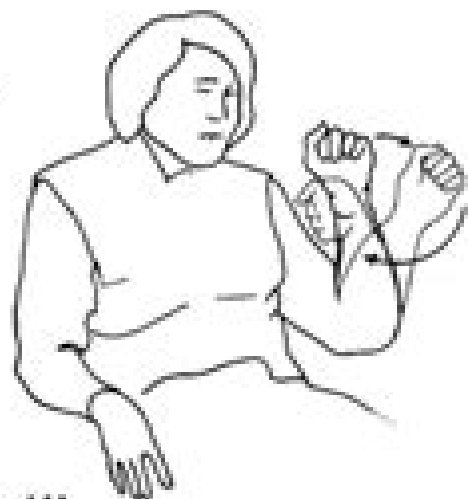
In this chapter and in chapter 6 I will present details about the varieties of gesture: what they look like, how they function, and in general how they are able to express our thoughts. My aim in these two chapters is to demonstrate with numerous examples that gestures and speech are truly integral parts of a single process, with the gesture manifesting the imagery that is inherent in this process at an early stage. (Chapter 5 describes an experiment testing the communicative effects of gestures on listeners.) The present chapter is devoted to gestures that depict concrete objects and events. These are the gestures of the concrete, the ones that we call iconic. Chapter 6 concentrates on gestures of the abstract. By studying gestures of both the concrete and abstract kinds, we can see how speakers represent objects and events in actual and fictive worlds. We will see that speakers reveal in their gestures what they regard as relevant and salient in the context—the "psychological predicate" of which Vygotsky (1962) wrote. At the same time speech may be unable to express fully the shading of relevance and salience that is shown in the gesture, since speech (but not gesture) is constrained by standards of linguistic form, and these standards add their own limits to the speech channel. The first point to establish is that, in performing gestures, the speaker's hands are no longer just hands, but symbols.

Gestures Are Symbols

Gestures are not just movements and can never be fully explained in purely kinesic terms. They are not just the arms waving in the air, but *symbols that exhibit meanings in their own right*. They have a meaning that is freely designated by the speaker. The hand can represent a character's hand, the character as a whole, a ball, a streetcar, or anything else; the space likewise can be freely designated—a table top, a street, the side of a building, midair. In other words, the gesture is capable of expressing the full range of meanings that arise from the speaker. Gestures are symbols different from spoken language, however. They are created—in contrast to retrieved—by the speaker at the moment of speaking. They coexist with the words and sentences of speech but are qualitatively different from those words and sentences. They are a separate symbolic vehicle with their own history, and finding their own outlet in space, movement, and form. This coexistence of different *qualities of symbols*—both idio-

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Carla Fernandes

Hand And Mind What Gestures Reveal About Thought:

   Hand and Mind David McNeill,1992-08-15 A research subject is shown a cartoon like the 1950 Canary Row a classic Sylvester and Tweedy Bird caper that features Sylvester climbing up a downspout swallowing a bowling ball and slamming into a brick wall After watching the cartoon the subject is videotaped recounting the story from memory to a listener who has not seen the cartoon Painstaking analysis of the videotapes revealed that although the research subjects children as well as adults some neurologically impaired represented a wide variety of linguistic groupings the gestures of people speaking English and a half dozen other languages manifest the same principles Relying on data from more than ten years of research McNeill shows that gestures do not simply form a part of what is said and meant but have an impact on thought itself

   Hand and Mind David McNeill,1995   *Hand and Mind* David McNeill,1992   Gesture and Thought David McNeill,2008-09-15 Gesturing is such an integral yet unconscious part of communication that we are mostly oblivious to it But if you observe anyone in conversation you are likely to see his or her fingers hands and arms in some form of spontaneous motion Why David McNeill a pioneer in the ongoing study of the relationship between gesture and language set about answering this question over twenty five years ago In Gesture and Thought he brings together years of this research arguing that gesturing an act which has been popularly understood as an accessory to speech is actually a dialectical component of language Gesture and Thought expands on McNeill s acclaimed classic Hand and Mind While that earlier work demonstrated what gestures reveal about thought here gestures are shown to be active participants in both speaking and thinking Expanding on an approach introduced by Lev Vygotsky in the 1930s McNeill posits that gestures are key ingredients in an imagery language dialectic that fuels both speech and thought Gestures are both the imagery and components of language The smallest element of this dialectic is the growth point a snapshot of an utterance at its beginning psychological stage Utilizing several innovative experiments he created and administered with subjects spanning several different age gender and language groups McNeill shows how growth points organize themselves into utterances and extend to discourse at the moment of speaking An ambitious project in the ongoing study of the relationship of human communication and thought Gesture and Thought is a work of such consequence that it will influence all subsequent theory on the subject

   Gesture and the Dynamic Dimension of Language Susan D. Duncan,Justine Cassell,Elena Terry Levy,2007 Each of the 21 chapters in this volume reflects a view of language as a dynamic phenomenon with emergent structure and in each gesture is approached as part of language not an adjunct to it In this all of the authors have been influenced by David McNeill s methods for studying natural discourse and by his theory of the human capacity for language The introductory chapter by Adam Kendon contextualizes McNeill s research paradigm within a history of earlier gesture studies Chapters in the first section Language and Cognition emphasize what McNeill refers to as the intrapersonal plane Many of the chapters adduce evidence for McNeill s claim that gestures can serve as a window onto the speaker s mind Chapters in the second section

Environmental Context and Sociality emphasize the interpersonal plane and exemplify McNeill s focus on how moment to moment language use is determined by contextual factors The final section of the volume Atypical Minds and Bodies concerns lessons to be learned from studies of aphasic patients autistic children and artificial humans <u>Advances in Visual Semiotics</u> Thomas Albert Sebeok,Donna Jean Umiker-Sebeok,1995 No detailed description available for Advances in Visual Semiotics <u>Choral Conducting and the Construction of Meaning</u> Liz Garnett,2017-07-05 It is a truism in teaching choral conducting that the director should look like s he wishes the choir to sound The conductor s physical demeanour has a direct effect on how the choir sings at a level that is largely unconscious and involuntary It is also a matter of simple observation that different choral traditions exhibit not only different styles of vocal production and delivery but also different gestural vocabularies which are shared not only between conductors within that tradition but also with the singers It is as possible to distinguish a gospel choir from a barbershop chorus or a cathedral choir by visual cues alone as it is simply by listening But how can these forms of physical communication be explained Do they belong to a pre cultural realm of primate social bonding or do they rely on the context and conventions of a particular choral culture Is body language an inherent part of musical performance styles or does it come afterwards in response to music At a practical level to what extent can a practitioner from one tradition mandate an approach as good practice and to what extent can another refuse it on the grounds that we don t do it that way This book explores these questions at both theoretical and practical levels It examines textual and ethnographic sources and draws on theories from critical musicology and nonverbal communication studies to analyse them By comparing a variety of choral traditions it investigates the extent to which the connections between conductor demeanour and choral sound operate at a general level and in what ways they are constructed within a specific idiom Its findings will be of interest both to those engaged in the study of music as a cultural practice and to practitioners involved in a choral conducting context that increasingly demands fluency in a variety of styles <u>Encyclopedia of Media and Communication</u> Marcel Danesi,2013-01-01 The first comprehensive encyclopedia for the growing fields of media and communication studies the Encyclopedia of Media and Communication is an essential resource for beginners and seasoned academics alike Contributions from over fifty experts and practitioners provide an accessible introduction to these disciplines most important concepts figures and schools of thought from Jean Baudrillard to Tim Berners Lee and podcasting to Peircean semiotics Detailed and up to date the Encyclopedia of Media and Communication synthesizes a wide array of works and perspectives on the making of meaning The appendix includes timelines covering the whole historical record for each medium from either antiquity or their inception to the present day Each entry also features a bibliography linking readers to relevant resources for further reading The most coherent treatment yet of these fields the Encyclopedia of Media and Communication promises to be the standard reference text for the next generation of media and communication students and scholars **Body - Language - Communication. Volume 1** Cornelia Müller,Alan Cienki,Ellen Fricke,Silva Ladewig,David

McNeill,Sedinha Tessendorf,2013-10-14 Volume I of the handbook presents contemporary multidisciplinary historical theoretical and methodological aspects of how body movements relate to language It documents how leading scholars from differenct disciplinary backgrounds conceptualize and analyze this complex relationship Five chapters and a total of 72 articles present current and past approaches including multidisciplinary methods of analysis The chapters cover I How the body relates to language and communication Outlining the subject matter II Perspectives from different disciplines III Historical dimensions IV Contemporary approaches V Methods Authors include Michael Arbib Janet Bavelas Marino Bonaiuto Paul Bouissac Judee Burgoon Martha Davis Susan Duncan Konrad Ehlich Nick Enfield Pierre Feyereisen Raymond W Gibbs Susan Goldin Meadow Uri Hadar Adam Kendon Antja Kennedy David McNeill Lorenza Mondada Fernando Poyatos Klaus Scherer Margret Selting J rgen Streeck Sherman Wilcox Jeffrey Wollock Jordan Zlatev **Body - Language - Communication. Volume 2** Cornelia Müller,Alan Cienki,Ellen Fricke,Silva Ladewig,David McNeill,Sedinha Tessendorf,2014-10-29 Volume II of the handbook offers a unique collection of exemplary case studies In five chapters and 99 articles it presents the state of the art on how body movements are used for communication around the world Topics include the functions of body movements their contexts of occurrence their forms and meanings their integration with speech and how bodily motion can function as language By including an interdisciplinary chapter on embodiment volume II explores the body and its role in the grounding of language and communication from one of the most widely discussed current theoretical perspectives Volume II of the handbook thus entails the following chapters VI Gestures across cultures VII Body movements functions contexts and interactions VIII Gesture and language IX Embodiment the body and its role for cognition emotion and communication X Sign Language Visible body movements as language Authors include Mats Andr n Richard Asheley Benjamin Bergen Ulrike Bohle Dominique Boutet Heather Brookes Penelope Brown Kensy Cooperrider Onno Crasborn Seana Coulson James Essegby Maria Graziano Marianne Gullberg Simon Harrison Hermann Kappelhoff Mardi Kidwell Irene Kimbara Stefan Kopp Grigoriy Kreidlin Dan Loehr Irene Mittelberg Aliyah Morgenstern Rafael Nu ez Isabella Poggi David Quinto Pozos Monica Rector Pio Enrico Ricci Bitti G ran Sonesson Timo Sowa Gale Stam Eve Sweetser Mark Tutton Ipke Wachsmuth Linda Waugh Sherman Wilcox **The Routledge International Handbook of Psycholinguistic and Cognitive Processes** Jackie Guendouzi,Filip Loncke,Mandy J. Williams,2023-06-02 This handbook provides a comprehensive overview of the theories of cognition and language processing relevant to the field of communication disorders Thoroughly updated in its second edition the book explores a range of topics and issues that illustrate the relevance of a dynamic interaction between both theoretical and applied clinical work Beginning with the origins of language evolution the authors explore a range of both developmental and acquired communication disorders reflecting the variety and complexity of psycholinguistics and its role in extending our knowledge of communication disorders The first section outlines some of the major theoretical approaches from psycholinguistics and cognitive neuroscience that have been influential in research

focusing on clinical populations while Section II features examples from researchers who have applied this body of knowledge to developmental disorders of communication Section III features examples focusing on acquired language disorders and finally Section IV considers psycholinguistic approaches to gesture sign language and alternative and augmentative communication AAC The new edition features new chapters offering fresh perspectives further reading recommendations and a new epilogue from Jackie Guendouzi This valuable text serves as a single interdisciplinary resource for graduate and upper level undergraduate students in cognitive neurosciences psychology communication sciences and disorders as well as researchers new to the field of communication disorders or to psycholinguistic theory **Gesture** Steven G. McCafferty,Gale Stam,2009-06-02 This book demonstrates the vital connection between language and gesture and why it is critical for research on second language acquisition to take into account the full spectrum of communicative phenomena The study of gesture in applied linguistics is just beginning to come of age This edited volume the first of its kind covers a broad range of concerns that are central to the field of SLA The chapters focus on a variety of second language contexts including adult classroom and naturalistic learners and represent learners from a variety of language and cultural backgrounds Gesture Second Language Acquisition and Classroom Research is organized in five sections Part I Gesture and its L2 Applications provides both an overview of gesture studies and a review of the L2 gesture research Part II Gesture and Making Meaning in the L2 offers three studies that all take an explicitly sociocultural view of the role of gesture in SLA Part III Gesture and Communication in the L2 focuses on the use and comprehension of gesture as an aspect of communication Part IV Gesture and Linguistic Structure in the L2 addresses the relationship between gesture and the acquisition of linguistic features and how gesture relates to proficiency Part V Gesture and the L2 Classroom considers teachers gestures students gestures and how students interpret teachers gestures Although there is a large body of research on gesture across a number of disciplines including anthropology communications psychology sociology and child development to date there has been comparatively little investigation of gesture within applied linguistics This volume provides readers unfamiliar with L2 gesture studies with a powerful new lens with which to view many aspects of language in use language learning and language teaching **Metaphorical Conceptualizations** Ulrike Schröder,Milene Mendes de Oliveira,Adriana Maria Tenuta,2022-03-07 The book deals with the important shift that has been heralded in cognitive linguistics from mere universal matters to cultural and situational variation The discussions examine cognitive and cultural linguistics theories in relation to the following areas of research i metaphorical conceptualization ii the influence of culture on metaphor metonymy and conceptual blends iii the impact of culture and cognition on metaphorical lexis iv the interface of pragmatics and cognition when metaphor is studied in situ that is in face to face as well as in virtual multimodal interaction v the application of insights from metaphorical conceptualizations to language teaching and vi recent methods for revealing inter cultural metaphorical conceptualizations corpus based approaches gesture studies etc The book brings together cognitive functional

and inter cultural approaches **Multimodality and Performance** Carla Fernandes,2016-08-17 The chapters in this book are the product of an international conference organised in Lisbon to mark the closure of the TKB project A Transmedia Knowledge Base for Performing Arts Under the title Multimodal Communication Language Performance and Digital Media this conference provided a forum for researchers and artists from different research fields interested in the study and documentation of the performing arts The book offers contributions on issues of multimodality in human interaction and performance embodied cognition and metaphor gesture studies video annotation for creative processes and performance and digital media Visual language Wendy Sandler,Marianne Gullberg,Carol Padden,2019-11-04 Traditionally research on human language has taken speech and written language as the only domains of investigation However there is now a wealth of empirical studies documenting visual aspects of language ranging from rich studies of sign languages which are self contained visual language systems to the field of gesture studies which examines speech associated gestures facial expressions and other bodily movements related to communicative expressions But despite this large body of work sign language and gestures are rarely treated together in theoretical discussions This volume aims to remedy that by considering both types of visual language jointly in order to transcend artificial theoretical divides and to arrive at a comprehensive account of the human language faculty This collection seeks to pave the way for an inherently multimodal view of language in which visible actions of the body play a crucial role The 19 papers in this volume address four broad and overlapping topics 1 the multimodal nature of language 2 multimodal representation of meaning 3 multimodal and multichannel prosody and 4 acquisition and development of visual language in children and adults Performing the Remembered Present Pil Hansen,Bettina Bläsing,2017-12-28 This international collection brings together scientists scholars and artist researchers to explore the cognition of memory through the performing arts and examine artistic strategies that target cognitive processes of memory The strongly embodied and highly trained memory systems of performing artists render artistic practice a rich context for understanding how memory is formed utilized and adapted through interaction with others instruments and environments Using experimental interpretive and Practice as Research methods that bridge disciplines the authors provide overview chapters and case studies of subjects such as collectively and environmentally distributed memory in the performing arts autobiographical memory triggers in performance creation and reception the journey from learning to memory in performance training the relationship between memory awareness and creative spontaneity and memorization and embodied or structural analysis of scores and scripts This volume provides an unprecedented resource for scientists scholars artists teachers and students looking for insight into the cognition of memory in the arts strategies of learning and performance and interdisciplinary research methodology *Emerging Perspectives on Gesture and Embodiment in Mathematics* Laurie D. Edwards,Deborah Moore-Russo,Francesca Ferrara,2014-07-01 The purpose of the book is to establish a common language for and understanding of embodiment as it applies to mathematical thinking and to link mathematics

education research to recent work in gesture studies cognitive linguistics and the theory of embodied cognition Just as in past decades mathematics education experienced a turn to the social in which socio cultural factors were explored in recent years there has been a nascent turn to the body An increasing number of researchers and theorists in mathematics education have become interested in the fact that although mathematics may be socially constructed this construction is not arbitrary or unconstrained but rather is rooted in and shaped by the body All those who engage with mathematics whether at an elementary or advanced level share the same basic biological and cognitive capabilities as well as certain common physical experiences that come with being humans living in a material world In addition the doing and communicating of mathematics is never a purely intellectual activity it involves a wide range of bodily actions from committing inscriptions to paper or whiteboard to speaking listening gesturing and gazing This volume will present recent research on gesture and mathematics within a framework that addresses several levels of mathematical development The chapters will begin with contributions that examine early mathematical and proto mathematical knowledge for example the conservation of volume and counting The role of gesture in teaching and learning arithmetic procedures will be addressed Core concepts and tools from secondary level mathematics will be investigated including algebra functions and graphing And finally research into the embodied understanding of advanced topics in geometry and calculus will be presented The overall goal for the volume is to acknowledge the multimodal nature of mathematical knowing and to contribute to the creation of a model of the interactions and mutual influences of bodily motion spatial thinking gesture speech and external inscriptions on mathematical thinking communication and learning The intended audience is researchers and theorists in mathematics education as well as graduate students in the field   **Signed Language and Gesture Research in Cognitive Linguistics** Terry Janzen,Barbara Shaffer,2023-07-24 This volume represents the first time that researchers on signed language and gesture have come together with a coherent focus under the framework of cognitive linguistics The pioneering work of Sherman Wilcox is highlighted throughout scaffolding much of the research of these contributors The five sections of the volume reflect critical areas of Dr Wilcox s own research in cognitive linguistics Guiding research principles in signed language gesture and cognitive linguistics iconicity across signed and spoken linguistics multimodality blending depiction and metaphor in signed languages and specific grammatical constructions as form meaning pairings The authors of this volume exemplify and continue Dr Wilcox s work of bridging signed and spoken language disciplines by contributing chapters that represent a multiplicity of perspectives on signed spoken and gesture data This volume presents a unified collection of cognitive linguistics research by leading authors that will be of interest to readers in the fields of signed and spoken language linguistics gesture studies and general linguistics   **The Mind of the Chimpanzee** Elizabeth V. Lonsdorf,Stephen R. Ross,Tetsuro Matsuzawa,2010-08-15 Understanding the chimpanzee mind is akin to opening a window onto human consciousness Many of our complex cognitive processes have origins that can be seen in the way that

chimpanzees think learn and behave The Mind of the Chimpanzee brings together scores of prominent scientists from around the world to share the most recent research into what goes on inside the mind of our closest living relative Intertwining a range of topics including imitation tool use face recognition culture cooperation and reconciliation with critical commentaries on conservation and welfare the collection aims to understand how chimpanzees learn think and feel so that researchers can not only gain insight into the origins of human cognition but also crystallize collective efforts to protect wild chimpanzee populations and ensure appropriate care in captive settings With a breadth of material on cognition and culture from the lab and the field The Mind of the Chimpanzee is a first rate synthesis of contemporary studies of these fascinating mammals that will appeal to all those interested in animal minds and what we can learn from them   Beyond Language Boundaries Marta Fernández-Villanueva,Konstanze Jungbluth,2016-08-22 The way speakers in multilingual contexts develop own varieties in their interactions sheds light on code switching and multimodal dynamic co constructions of grammar in use This volume explores the intersection of multimodality and language use of multilingual speakers Firstly theoretical frames are discussed and empirical studies involving Catalan German and Spanish as L1 L2 or FL are presented interconnecting verbal and gestural modalities into grammar description or exploring actions as sources for gestures which may nonverbally represent the argument in German dynamic motion verbs Other chapters focus on positionings in interviews lexical access searches or proxemics in greetings and farewells The contributions secondly focus on verbal features of language use in multilingual contexts related to self representation and co construction of identity through code switching deixis or argumentative reasoning in different communicative events based on multilingual data of languages including Croatian English Italian Brazilian Portuguese and Polish The findings call for a reviewed conception of grammar description with implications also for the conceptualization of deixis for L2 foreign language acquisition and language teaching policies

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