



Michael C. Corballis

from  
Hand  
to Mouth

the Origins  
of Language

# From Hand To Mouth The Origins Of Language

**Katja Liebal, Cornelia Müller, Simone  
Pika**



## **From Hand To Mouth The Origins Of Language:**

**From Hand to Mouth** Michael C. Corballis, 2002 A groundbreaking theory of how language arose from primate gestures It is often said that speech is what distinguishes us from other animals But are we all talk What if language was bequeathed to us not by word of mouth but as a hand me down The notion that language evolved not from animal cries but from manual and facial gestures that for most of human history actions have spoken louder than words has been around since Condillac But never before has anyone developed a full fledged theory of how why and with what effects language evolved from a gestural system to the spoken word Marshaling far flung evidence from anthropology animal behavior neurology molecular biology anatomy linguistics and evolutionary psychology Michael Corballis makes the case that language developed with the emergence of Homo sapiens from primate gestures to a true signed language complete with grammar and syntax and at best punctuated with grunts and other vocalizations While vocal utterance played an increasingly important complementary role autonomous speech did not appear until about 50 000 years ago much later than generally believed Bringing in significant new evidence to bolster what has been a minority view Corballis goes beyond earlier supporters of a gestural theory by suggesting why speech eventually but not completely supplanted gesture He then uses this milestone to account for the artistic explosion and demographic triumph of the particular group of Homo sapiens from whom we are descended And he asserts that speech like written language was a cultural invention and not a biological fait accompli Writing with wit and eloquence Corballis makes nimble reference to literature mythology natural history sports and contemporary politics as he explains in fascinating detail what we now know about such varied subjects as early hominid evolution modern signed languages and the causes of left handedness *From Hand to Mouth* will have scholars and laymen alike talking and sometimes gesturing for years to come

*From Hand to Mouth* Michael C. Corballis, 2002 A groundbreaking theory of how language arose from primate gestures It is often said that speech is what distinguishes us from other animals But are we all talk What if language was bequeathed to us not by word of mouth but as a hand me down The notion that language evolved not from animal cries but from manual and facial gestures that for most of human history actions have spoken louder than words has been around since Condillac But never before has anyone developed a full fledged theory of how why and with what effects language evolved from a gestural system to the spoken word Marshaling far flung evidence from anthropology animal behavior neurology molecular biology anatomy linguistics and evolutionary psychology Michael Corballis makes the case that language developed with the emergence of Homo sapiens from primate gestures to a true signed language complete with grammar and syntax and at best punctuated with grunts and other vocalizations While vocal utterance played an increasingly important complementary role autonomous speech did not appear until about 50 000 years ago much later than generally believed Bringing in significant new evidence to bolster what has been a minority view Corballis goes beyond earlier supporters of a gestural theory by suggesting why speech eventually but not completely supplanted gesture He then uses this

milestone to account for the artistic explosion and demographic triumph of the particular group of Homo sapiens from whom we are descended And he asserts that speech like written language was a cultural invention and not a biological fait accompli Writing with wit and eloquence Corballis makes nimble reference to literature mythology natural history sports and contemporary politics as he explains in fascinating detail what we now know about such varied subjects as early hominid evolution modern signed languages and the causes of left handedness From Hand to Mouth will have scholars and laymen alike talking and sometimes gesturing for years to come **Language by mouth and by hand** Iris Berent, Susan Goldin-Meadow, 2015-05-11 While most natural languages rely on speech humans can spontaneously generate comparable linguistic systems that utilize manual gestures This collection of papers examines the interaction between natural language and its phonetic vessels human speech or manual gestures We seek to identify what linguistic aspects are invariant across signed and spoken languages and determine how the choice of the phonetic vessel shapes language structure its processing and its neural implementation We welcome rigorous empirical studies from a wide variety of perspectives ranging from behavioral studies to brain analyses diverse ages from infants to adults and multiple languages both conventional and emerging home signs and sign languages Gestural Communication in Nonhuman and Human Primates Katja Liebal, Cornelia Müller, Simone Pika, 2007 The aim of this volume is to bring together the research in gestural communication in both nonhuman and human primates and to explore the potential of a comparative approach and its contribution to the question of an evolutionary scenario in which gestures play a significant role Evolutionary Neuroscience Jon H Kaas, 2009-07-28 Evolutionary Neuroscience is a collection of articles in brain evolution selected from the recent comprehensive reference Evolution of Nervous Systems Elsevier Academic Press 2007 The selected chapters cover a broad range of topics from historical theory to the most recent deductions from comparative studies of brains The articles are organized in sections focused on theories and brain scaling the evolution of brains from early vertebrates to present day fishes amphibians reptiles and birds the evolution of mammalian brains and the evolution of primate brains including human brains Each chapter is written by a leader or leaders in the field and has been reviewed by other experts Specific topics include brain character reconstruction principles of brain scaling basic features of vertebrate brains the evolution of the major sensory systems and other parts of brains what we can learn from fossils the origin of neocortex and the evolution of specializations of human brains The collection of articles will be interesting to anyone who is curious about how brains evolved from the simpler nervous systems of the first vertebrates into the many different complex forms now found in present day vertebrates This book would be of use to students at the graduate or undergraduate levels as well as professional neuroscientists cognitive scientists and psychologists Together the chapters provide a comprehensive list of further reading and references for those who want to inquire further The most comprehensive authoritative and up to date single volume collection on brain evolution Full color throughout with many illustrations Written by leading scholars and experts

**Doc-Humanity** Maurizio Ferraris, 2022-09-12 However you view the present time it is a new century a new world and also a new humanity in fact humanity is not something that was ever defined once and for all but remains an open project For several decades we have been witnessing a revolution However unlike the political and ideological revolutions that took place around the First World War this is a technological and much more radical one that does not depend on people's beliefs but rather on the tireless labour of machines The rise of automation has brought about a revelation of something that had hitherto remained hidden in the workshops of homo faber That is there are very few functions apart from consumption where a machine cannot replace a human being because these material or spiritual machines need energy but they can also do without it whereas humans die if deprived of it or one can imagine a machine producing symphonies but not enjoying them So while human beings are still needed their roles and scopes have to be reconsidered Workers may be superfluous but humans are still needed including those who until recently only recognised themselves as producers The exclusion of workers from production does not discount humans being able to produce value in the form of consumption Recognising this will enable us to conceive the Webfare a new digital system that will teach us to find new names and new forms more tolerance and room for traditional human needs Above all it will teach us how to transform the time given to us by automation into an opportunity for progress

**Neanderthal Lifeways, Subsistence and Technology** Nicholas J. Conard, Jürgen Richter, 2011-02-11 The 150th anniversary of the discovery of the famous Neanderthal fossils gave reason for an international and interdisciplinary symposium in Bonn Germany The present book arose from this congress and focuses on multiple aspects of archaeological investigation on Neanderthal lifeways In depth studies of top ranking scientists provide a detailed and comprehensive survey of contemporary research on our Pleistocene relatives Examinations and debates are embedded in a variety of regions and time frames Chronology subsistence land use and cultural adaptations among late Neanderthals form the major trajectories of the book The wide range of approaches involved leads to an increasing understanding of the facets of and the variability of Neanderthal behavioural patterns The present volume is complemented by a paleontologically orientated publication of the same congress edited by Gerd Christian Weniger and Silvana Condemi

**Lateralized Brain Functions** Lesley J. Rogers, Giorgio Vallortigara, 2024-12-11 This second edition volume expands on the previous edition with updates on the latest techniques used to study brain and behavioral laterality in both human and non human animals The chapters in this book cover numerous topics such as methods of measuring lateralization in a range of species by scoring behavior elicited by inputs to one of both brain hemispheres behavioral methods to study motor preferences and lateralization in invertebrates neurological methods to reveal lateralization imaging and electroencephalographic techniques and transcranial stimulation and new genetic approaches to studying lateralization in humans and zebrafish and the roles of genes in the establishment and development of brain asymmetry In the Neuromethods series style chapters include the kind of detail and key advice from the specialists needed to get successful results in your laboratory Cutting edge and authoritative Lateralized Brain Function

Methods in Human and Non Human Species Second Edition is a valuable resource for further research on brain and behavioral asymmetries in human and non human species This book will provide both expert and novel researchers with answers to their questions while also encouraging vital collaborations **American Scientist** ,2003 **Multimodal Signals: Cognitive and Algorithmic Issues** Anna Esposito, Amir Hussain, Maria Marinaro, Raffaele Martone, 2009-02-27 This book constitutes the thoroughly refereed post conference proceedings of the COST Action 2102 and euCognition supported international school on Multimodal Signals Cognitive and Algorithmic Issues held in Vietri sul Mare Italy in April 2008 The 34 revised full papers presented were carefully reviewed and selected from participants contributions and invited lectures given at the workshop The volume is organized in two parts the first on Interactive and Unsupervised Multimodal Systems contains 14 papers The papers deal with the theoretical and computational issue of defining algorithms programming languages and determinist models to recognize and synthesize multimodal signals These are facial and vocal expressions of emotions tones of voice gestures eye contact spatial arrangements patterns of touch expressive movements writing patterns and cultural differences in anticipation of the implementation of intelligent avatars and interactive dialogue systems that could be exploited to improve user access to future telecommunication services The second part of the volume on Verbal and Nonverbal Communication Signals presents 20 original studies devoted to the modeling of timing synchronisation between speech production gestures facial and head movements in human communicative expressions and on their mutual contribution for an effective communication *The Year in Cognitive Neuroscience ....* ,2009 **Natural History** ,2002 **American Anthropologist** ,2002 **The Anthropology of Language** Harriet Ottenheimer, 2006 This text provides an introduction to the field of linguistic anthropology which appeals to undergraduates from a wide variety of fields and at a wide variety of levels from freshmen to seniors This text comes with access to a companion website designed to make the intersection of linguistics and anthropology accessible and interesting to undergraduate students In addition to THE ANTHROPOLOGY OF LANGUAGE Harriet Ottenheimer has also creating a workbook reader that is a perfect bundle option for this text See the supplement section for details **Wittgenstein on Rules and Nature** Keith Dromm, 2008-08-26 Offers an original reading of Wittgenstein s views on such topics as radical scepticism the first and third person asymmetry of mental talk Cartesianism and rule following **Bioacoustics** ,2005 Evolution of Nervous Systems Jon H. Kaas, 2007 What Makes Us Human? Charles Pasternak, 2007-10 How and why did we become who we are In What Makes Us Human some of the world s most brilliant thinkers offer their answers to this perennial puzzle including Susan Blackmore Robin Dunbar Susan Greenfield Richard Harries enan Malik Richard Wrangham Ian Tattersall and Lewis Wolpert Together they draw on a broad spectrum of disciplines from anthropology biochemistry medicine and neuroscience to philosophy psychology and religion to ask what makes us distinctively human Is it our cognitive abilities or our use tools our story telling our beliefs our curiosity our ability to cook or our culture Are we half ape or half angel What Makes Us Human explains how and why our

ancestors adapted to their surroundings to produce such clever talented and unlikely progeny It is for all to enjoy

**Encyclopedia of Anthropology** H. James Birx, 2005-12-08 This five volume Encyclopedia of Anthropology is a unique collection of over 1 000 entries that focuses on topics in physical anthropology archaeology cultural anthropology linguistics and applied anthropology Also included are relevant articles on geology paleontology biology evolution sociology psychology philosophy and theology The contributions are authored by over 250 internationally renowned experts professors and scholars from some of the most distinguished museums universities and institutes in the world Special attention is given to human evolution primate behavior genetics ancient civilizations sociocultural theories and the value of human language for symbolic communication

**"Prehistoric Technology" 40 Years Later** Laura Longo, Natalia Skakun, 2008 Proceedings of the International Congress Verona Italy 20-23 April 2005 This book includes papers from the congress Prehistoric Technology 40 Years Later Functional Studies and the Russian Legacy held in Verona Italy 20-23 April 2005 Sessions Methodology seven contributions Hunter Gatherers nine contributions Food Producers eight contributions Complex Politics six contributions Burial Context six contributions Posters thirty two contributions Round Table eight contributions Edited by Laura Longo and Natalia Skakun with the assistance of Massimo Saracino and Martina Dalla Riva

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