

KINDS OF BEHAVIOUR

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"The confusion and barrenness of psychology cannot be explained by calling it a 'young science'...in psychology there are experimental methods and conceptual confusion." Wittgenstein, *Philosophical Investigations*.

IN PRESS, BIOLOGY AND PHILOSOPHY

Abstract

Scientists able to identify appropriate analytical units for their domain, their natural kinds, have tended to be most progressive. In the biological sciences, evolutionary natural kinds are adaptations that can be identified by their common history of selection for some function. Human brains are the product of an evolutionary history of selection for component systems which produced behaviours that gave adaptive advantages to their hosts. These structures, behaviour production systems, are the natural kinds that psychology seeks. We argue these can be identified deductively by classing behaviour first according to its level of behavioural control. (Early animals in our lineage used only reflexive production, Vertebrates evolved motivation, and later Primates developed executive control. Behaviour can also be classified by the type of evolutionary benefit it bestows: it can deliver either immediate benefits (food, genes), improvements in the individual's position with respect to the world (resource access, social status), or improvements in the ability to secure future benefits (knowledge, skills). Combining history and function implies the existence of seven types of behaviour production systems in human brains responsible for reflexive, individual, exploratory, driven, emotional, playful and planned behaviour. Discovering scientifically valid categories of behaviour can provide a fundamental taxonomy and common language for understanding, predicting and changing behaviour – and a way of discovering the organs in the brain – its natural kinds – that are responsible for behaviour.

Key words: evolution, behaviour, emotion, brain, cognition, natural kinds

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Christopher Eccleston



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Embodied Christopher Eccleston, 2015-11-26 We grow up thinking there are five senses but we forget about the ten neglected senses of the body that both enable and limit our experience Embodied explores the psychology of physical sensation in ten chapters balance movement pressure acting in gravity breathing fatigue pain itch temperature appetite and expulsion the senses of physical matter leaving the body For each sense two people are interviewed who live with extreme experiences of the sense being investigated their stories bring to life how far physical sensations matter to us and how much they define what is possible in our life How physical sensation shapes behavior and how behavior is shaped by sensation are examined A final chapter presents a theory of what is common across the ten senses of how we deal with being urged to act and what happens when extreme sensation is inescapable Applied Evolutionary Psychology S. Craig Roberts, 2012 This is the first book to overtly consider how basic evolutionary thinking is being applied to a wide range of special social economic and technical problems It draws together a collection of renowned academics from a very disparate set of fields whose common interest lies in using evolutionary thinking to inform their research Brands on a Mission Myriam Sidibe, 2020-05-10 Winner of the Bronze 2021 AXIOM Business Book Award in the category of Philanthropy Nonprofit Sustainability Brands on a Mission explores the importance of creating a performance culture that is built on driving impact through purpose and the type of talent required to drive these transformational changes within companies from CEO to brand developers Using evidence from interviews and stories from over 100 CEOs thought leaders and brand managers the book presents an emergent model that organisations can follow to build purpose into their growth strategy and shows how to bridge the gap between Brand Say and Brand Do Readers will learn from the real experts in the field how Paul Polman former CEO of Unilever built purpose into the DNA of his company what keeps Alan Jope new CEO Unilever and Emmanuel Faber CEO Danone awake at night and how brand developers from Durex Dove Discovery and LIXIL have made choices and the reasons behind them In this book you will learn how a soap brand Lifebuoy taught one billion people about hygiene how a beer is tackling gender based violence and how a toothpaste is tackling school absenteeism amongst many others Renowned experts like Peter Piot Director London School of Health and Tropical Medicine Michael Porter Professor Harvard School of Business Jane Nelson Director Corporate Responsibility Initiative Harvard Kennedy School and Susie Orbach leading feminist and formerly professor London School of Economics also share examples data and their everyday experiences of helping corporates create a culture of purpose And leading NGOs and UN experts like Lawrence Haddad Executive Director GAIN and Natalia Kanem Executive Director of UNFPA will recount how the public and private sector have worked together to create an accelerated path to reaching the Sustainable Development Goals by 2030 The book provides a clear pathway of how to take brands through the journey of developing impactful social missions and driving business growth and is an essential guide for both managers and students alike Applied Evolutionary Anthropology Mhairi A. Gibson, David W.

Lawson,2014-03-10 As a species we are currently experiencing dramatic shifts in our lifestyle family structure health and global contact Evolutionary Anthropology provides a powerful theoretical framework to study such changes revealing how current environments and legacies of past selection shape human diversity This book is the first major review of the emerging field of Applied Evolutionary Anthropology bringing together the work of an international group of evolutionary scientists addressing many of the major public health and social issues of this century Through a series of case studies that span both rural and urban situations in Africa Asia Europe and South America each chapter addresses topics such as natural resource management health service delivery population growth and the emergence of new family structures dietary and cooperative behaviours The research presented identifies the great largely untapped potential that Applied Evolutionary Anthropology holds to guide the design implementation and evaluation of effective social and public health policy This book will be of interest to policy makers and applied researchers along with academics and students across the biological and social sciences

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