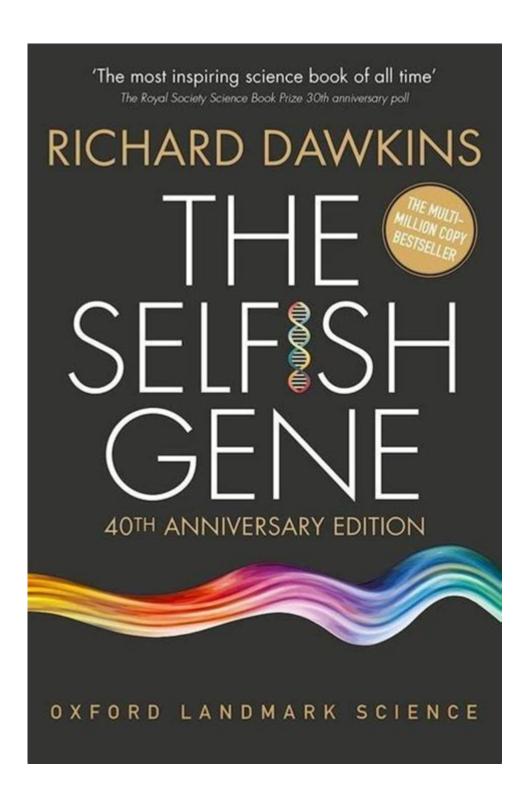
The Selfish Gene



The Selfish Gene: Understanding Dawkins' Revolutionary Theory

The human story, rich with narratives of altruism, cooperation, and self-sacrifice, often seems at odds with the brutal realities of natural selection. How can seemingly selfless acts, like a mother

protecting her offspring at great personal risk, fit into a world governed by survival of the fittest? Richard Dawkins' groundbreaking book, The Selfish Gene, offers a compelling, albeit controversial, answer. This post delves into the core tenets of this revolutionary theory, exploring its implications for understanding human behavior, evolution, and the very nature of life itself. We will unpack the key concepts, address common misconceptions, and ultimately challenge you to reconsider your understanding of what it means to be "selfish" in the context of biology.

Understanding the Core Concept: Genes as the Units of Selection

At the heart of The Selfish Gene lies a simple yet profound idea: the fundamental unit of selection in evolution isn't the individual organism, but the gene. Dawkins argues that organisms are merely "survival machines," complex vehicles built by genes to ensure their own replication and propagation. This isn't to say genes are conscious actors; rather, the "selfishness" is a metaphorical description of their inherent drive to maximize their representation in future generations.

The Replication Imperative: Survival of the Fittest Genes

Genes, through the process of natural selection, compete for survival. Those genes that successfully replicate themselves in the next generation are considered "fitter," regardless of the fate of the organism carrying them. This perspective shifts the focus from the individual level to the gene level, offering a powerful framework for understanding seemingly altruistic behaviors.

The Role of Memes in Cultural Evolution

Dawkins extends his concept beyond biological genes, introducing the idea of "memes" – units of cultural information, such as ideas, beliefs, and practices, that replicate themselves through imitation and learning. He suggests that memes, like genes, compete for space in the cultural landscape, influencing human behavior and societal evolution in ways analogous to genetic selection.

Altruism Redefined: Kin Selection and Reciprocal Altruism

The concept of a "selfish gene" might seem to contradict the existence of altruism. However,

Dawkins provides compelling explanations for seemingly selfless acts through mechanisms like kin selection and reciprocal altruism.

Kin Selection: Helping Relatives to Replicate Shared Genes

Kin selection explains altruistic behavior towards relatives. Since relatives share genes, helping them survive and reproduce increases the chances of those shared genes being passed on, effectively furthering the "selfish" interests of the genes themselves. The degree of altruism is often proportional to the degree of genetic relatedness.

Reciprocal Altruism: Cooperation Based on Mutual Benefit

Reciprocal altruism explains cooperation between unrelated individuals. By helping others, an organism increases the likelihood of receiving help in return at some point in the future. This mutually beneficial exchange promotes survival and reproductive success, indirectly benefiting the genes involved.

Criticisms and Misinterpretations of "The Selfish Gene"

Despite its influence, The Selfish Gene has faced criticism and misinterpretations. One common misconception is that the theory promotes a deterministic view of human behavior, implying that our actions are solely dictated by our genes. Dawkins himself acknowledges the significant role of environmental factors and learning in shaping human behavior.

The Importance of Environmental Factors and Learning

While genes lay the groundwork for our predispositions, our experiences, learning, and cultural context significantly influence how those genes are expressed. The interplay between nature and nurture is crucial in understanding the complexity of human behavior.

Avoiding Social Darwinism: The Ethical Implications

Another concern is the potential misuse of the theory to justify social inequalities or promote a "survival of the fittest" ideology in human society. Dawkins strongly cautions against this, emphasizing that the "selfishness" of genes operates within a biological framework, not a social or moral one.

Conclusion: A Paradigm Shift in Evolutionary Biology

The Selfish Gene represents a paradigm shift in our understanding of evolution. By focusing on the gene as the unit of selection, Dawkins provides a powerful framework for explaining a wide range of biological phenomena, from the intricacies of altruism to the dynamics of cultural evolution. While the theory has faced criticism and sparked debate, its enduring legacy lies in its ability to challenge our assumptions and broaden our understanding of the complex interplay between genes, organisms, and the environment. It invites us to reconsider our place in the natural world, not as isolated individuals, but as intricate vessels carrying the legacy of countless generations of genes.

FAQs

- 1. Is "The Selfish Gene" a justification for selfishness in human behavior? No, the term "selfish" is used metaphorically to describe the inherent drive of genes to replicate. It doesn't endorse selfish behavior in humans.
- 2. How does the concept of memes relate to cultural evolution? Memes are units of cultural information that replicate and spread through imitation, analogous to how genes replicate biologically. They influence cultural evolution.
- 3. Does the theory contradict the concept of altruism? No, it explains seemingly altruistic acts through mechanisms like kin selection and reciprocal altruism, showcasing how such acts can still benefit the replication of genes.
- 4. What are the main criticisms of "The Selfish Gene"? Criticisms include accusations of genetic determinism and the potential for misinterpretation to justify social Darwinism.
- 5. Is the book solely about human behavior? While applicable to humans, the book's central argument applies to all life forms, focusing on the underlying mechanisms of evolution driven by gene replication.

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the selfish gene: The Selfish Gene Richard Dawkins, 2006-03-16 The million copy international bestseller, critically acclaimed and translated into over 25 languages. This 30th anniversary edition includes a new introduction from the author as well as the original prefaces and foreword, and extracts from early reviews. As relevant and influential today as when it was first published, The Selfish Gene has become a classic exposition of evolutionary thought. Professor Dawkins articulates a gene's eye view of evolution - a view giving centre stage to these persistent units of information, and in which organisms can be seen as vehicles for their replication. This

imaginative, powerful, and stylistically brilliant work not only brought the insights of Neo-Darwinism to a wide audience, but galvanized the biology community, generating much debate and stimulating whole new areas of research.

the selfish gene: The Selfish Gene Richard Dawkins, 2016-05-26 The million copy international bestseller, critically acclaimed and translated into over 25 languages. As influential today as when it was first published, The Selfish Gene has become a classic exposition of evolutionary thought. Professor Dawkins articulates a gene's eye view of evolution - a view giving centre stage to these persistent units of information, and in which organisms can be seen as vehicles for their replication. This imaginative, powerful, and stylistically brilliant work not only brought the insights of Neo-Darwinism to a wide audience, but galvanized the biology community, generating much debate and stimulating whole new areas of research. Forty years later, its insights remain as relevant today as on the day it was published. This 40th anniversary edition includes a new epilogue from the author discussing the continuing relevance of these ideas in evolutionary biology today, as well as the original prefaces and foreword, and extracts from early reviews. Oxford Landmark Science books are 'must-read' classics of modern science writing which have crystallized big ideas, and shaped the way we think.

the selfish gene: The Society of Genes Itai Yanai, Martin Lercher, 2016-01-11 Nearly four decades ago Richard Dawkins published The Selfish Gene, famously reducing humans to "survival machines" whose sole purpose was to preserve "the selfish molecules known as genes." How these selfish genes work together to construct the organism, however, remained a mystery. Standing atop a wealth of new research, The Society of Genes now provides a vision of how genes cooperate and compete in the struggle for life. Pioneers in the nascent field of systems biology, Itai Yanai and Martin Lercher present a compelling new framework to understand how the human genome evolved and why understanding the interactions among our genes shifts the basic paradigm of modern biology. Contrary to what Dawkins's popular metaphor seems to imply, the genome is not made of individual genes that focus solely on their own survival. Instead, our genomes comprise a society of genes which, like human societies, is composed of members that form alliances and rivalries. In language accessible to lay readers, The Society of Genes uncovers genetic strategies of cooperation and competition at biological scales ranging from individual cells to entire species. It captures the way the genome works in cancer cells and Neanderthals, in sexual reproduction and the origin of life, always underscoring one critical point: that only by putting the interactions among genes at center stage can we appreciate the logic of life.

the selfish gene: Genes in Conflict Austin Burt, Robert Trivers, 2006 In evolution, most genes survive and spread within populations because they increase the ability of their hosts (or their close relatives) to survive and reproduce. But some genes spread in spite of being harmful to the host organism—by distorting their own transmission to the next generation, or by changing how the host behaves toward relatives. As a consequence, different genes in a single organism can have diametrically opposed interests and adaptations. Covering all species from yeast to humans, Genes in Conflict is the first book to tell the story of selfish genetic elements, those continually appearing stretches of DNA that act narrowly to advance their own replication at the expense of the larger organism. As Austin Burt and Robert Trivers show, these selfish genes are a universal feature of life with pervasive effects, including numerous counter-adaptations. Their spread has created a whole world of socio-genetic interactions within individuals, usually completely hidden from sight. Genes in Conflict introduces the subject of selfish genetic elements in all its aspects, from molecular and genetic to behavioral and evolutionary. Burt and Trivers give us access for the first time to a crucial area of research—now developing at an explosive rate—that is cohering as a unitary whole, with its own logic and interconnected questions, a subject certain to be of enduring importance to our understanding of genetics and evolution.

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the selfish gene: The Gene's-Eye View of Evolution J. Arvid Ågren, 2021-07-21 To many evolutionary biologists, the central challenge of their discipline is to explain adaptation, the appearance of design in the living world. With the theory of evolution by natural selection, Charles Darwin elegantly showed how a purely mechanistic process can achieve this striking feature of nature. Since then, the way many biologists have thought about evolution and natural selection is as a theory about individual organisms. Over a century later, a subtle but radical shift in perspective emerged with the gene's-eve view of evolution in which natural selection was conceptualized as a struggle between genes for replication and transmission to the next generation. This viewpoint culminated with the publication of The Selfish Gene by Richard Dawkins (Oxford University Press, 1976) and is now commonly referred to as selfish gene thinking. The gene's-eye view has subsequently played a central role in evolutionary biology, although it continues to attract controversy. The central aim of this accessible book is to show how the gene's-eye view differs from the traditional organismal account of evolution, trace its historical origins, clarify typical misunderstandings and, by using examples from contemporary experimental work, show why so many evolutionary biologists still consider it an indispensable heuristic. The book concludes by discussing how selfish gene thinking fits into ongoing debates in evolutionary biology, and what they tell us about the future of the gene's-eye view of evolution.--

the selfish gene: From Gaia to Selfish Genes Connie Barlow, 1992-07-08 From Gaia to Selfish Genes is a different kind of anthology. Lively excerpts from the popular writings of leading theorists in the life sciences blend in a seamless presentation of the controversies and bold ideas driving contemporary biological research. Selections span scales from the biosphere to the cell and DNA, and disciplines from global ecology to behavior and genetics, and also reveals the links between biology and philosophy. They plunge the reader into debates about heredity and environment, competition and cooperation, randomness and determinism, and the meaning of individuality. From Gaia to Selfish Genes conveys the technical and conceptual roots of current scientific theories beginning with the planetary perspective of James Lovelock and Lynn Margulis and concluding with the reductionist views of Richard Dawkins and E. O. Wilson. The contrasting worldviews, coupled with excerpts drawn from critics of each theory, encourage readers to examine their own presuppositions. In addition to the scientists' portrayal of the Gaia hypothesis, symbiosis in cell evolution, hierarchy theory, systems theory, game theory, sociobiology, and the selfish gene, the text is rich in autobiographical passages and biographies. By presenting the human side of research, From Gaia to Selfish Genes reveals the social context and interactions, the motivations and range of cognitive styles that comprise the scientific endeavor. Concluding essays written expressly for this book by Lynn Margulis, John Maynard Smith, W. Ford Doolittle, and others underscore the importance of such diversity. Connie Barlow is a science writer currently living in New York City. The scientists include: Robert Axelrod. Richard D. Alexander. Ludwig von Bertalanffy. Leo W. Buss. Francis Crick. Richard Dawkins. W. Ford Doolittle. Douglas Hofstadter. Julian Huxley. Leon J. Kamin. Philip Kitcher. Richard C. Lewontin. James Lovelock. Lynn Margulis. Ashley Montagu. Leslie Orgel. Steven Rose. Carmen Sapienza. John Maynard Smith. Lewis Thomas. Gerald Weinberg. E. 0. Wilson. Robert Wright. The science writers include: Lawrence Joseph. Arthur Koestler. Francesca Lyman. Jeanne McDermott. Richard Monastersky. Dorion Sagan.

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the selfish gene: Richard Dawkins Alan Grafen, Mark Ridley, 2007 This sparkling collection explores the impact of Richard Dawkins as scientist, rationalist, and one of the most important thinkers alive today. Specially commissioned pieces by leading figures in science, philosophy, literature, and the media, such as Daniel C. Dennett, Matt Ridley, Steven Pinker, Philip Pullman, and the Bishop of Oxford, highlight the breadth and range of Dawkins' influence on modern science and culture, from the gene's eye view of evolution to his energetic engagement in public debates on science, rationalism, and religion. The volume includes personal reminiscences and critical debate as

well as accessible discussions of science - it provides a stimulating tribute to a remarkable intellectual.

the selfish gene: The Extended Phenotype Richard Dawkins, 2016 In The Selfish Gene, Richard Dawkins crystallized the gene's eye view of evolution developed by W.D. Hamilton and others. The book provoked widespread and heated debate. Written in part as a response, The Extended Phenotype gave a deeper clarification of the central concept of the gene as the unit of selection; but it did much more besides. In it, Dawkins extended the gene's eve view to argue that the genes that sit within an organism have an influence that reaches out beyond the visible traits in that body - the phenotype - to the wider environment, which can include other individuals. So, for instance, the genes of the beaver drive it to gather twigs to produce the substantial physical structure of a dam; and the genes of the cuckoo chick produce effects that manipulate the behaviour of the host bird, making it nurture the intruder as one of its own. This notion of the extended phenotype has proved to be highly influential in the way we understand evolution and the natural world. It represents a key scientific contribution to evolutionary biology, and it continues to play an important role in research in the life sciences. The Extended Phenotype is a conceptually deep book that forms important reading for biologists and students. But Dawkins' clear exposition is accessible to all who are prepared to put in a little effort. Oxford Landmark Science books are 'must-read' classics of modern science writing which have crystallized big ideas, and shaped the way we think.

the selfish gene: Prisoners of Reason S. M. Amadae, 2016-01-14 Using the theory of Prisoner's Dilemma, Prisoners of Reason explores how neoliberalism departs from classic liberalism and how it rests on game theory.

the selfish gene: How to Build a Dinosaur Jack Horner, James Gorman, 2009-03-19 A world-renowned paleontologist reveals groundbreaking science that trumps science fiction: how to grow a living dinosaur. Over a decade after Jurassic Park, Jack Horner and his colleagues in molecular biology labs are in the process of building the technology to create a real dinosaur. Based on new research in evolutionary developmental biology on how a few select cells grow to create arms, legs, eyes, and brains that function together, Jack Horner takes the science a step further in a plan to reverse evolution and reveals the awesome, even frightening, power being acquired to recreate the prehistoric past. The key is the dinosaur's genetic code that lives on in modern birds-even chickens. From cutting-edge biology labs to field digs underneath the Montana sun, How to Build a Dinosaur explains and enlightens an awesome new science.

the selfish gene: The Genial Gene Joan Roughgarden, 2009-04-20 Are selfishness and individuality—rather than kindness and cooperation—basic to biological nature? Does a selfish gene create universal sexual conflict? In The Genial Gene, Joan Roughgarden forcefully rejects these and other ideas that have come to dominate the study of animal evolution. Building on her brilliant and innovative book Evolution's Rainbow, in which she challenged accepted wisdom about gender identity and sexual orientation, Roughgarden upends the notion of the selfish gene and the theory of sexual selection and develops a compelling and controversial alternative theory called social selection. This scientifically rigorous, model-based challenge to an important tenet of neo-Darwinian theory emphasizes cooperation, elucidates the factors that contribute to evolutionary success in a gene pool or animal social system, and vigorously demonstrates that to identify Darwinism with selfishness and individuality misrepresents the facts of life as we now know them.

the selfish gene: The 100 Best Nonfiction Books of All Time Robert McCrum, 2018 Beginning in 1611 with the King James Bible and ending in 2014 with Elizabeth Kolbert's 'The Sixth Extinction', this extraordinary voyage through the written treasures of our culture examines universally-acclaimed classics such as Pepys' 'Diaries', Charles Darwin's 'The Origin of Species', Stephen Hawking's 'A Brief History of Time' and a whole host of additional works --

the selfish gene: The Selfish Meme Kate Distin, 2005 Publisher Description the selfish gene: The Music of Life Denis Noble, 2008-02-14 What is Life? Decades of research have resulted in the full mapping of the human genome - three billion pairs of code whose functions are only now being understood. The gene's eye view of life, advocated by evolutionary biology, sees

living bodies as mere vehicles for the replication of the genetic codes. But for a physiologist, working with the living organism, the view is a very different one. Denis Noble is a world renowned physiologist, and sets out an alternative view to the question - one that becomes deeply significant in terms of the living, breathing organism. The genome is not life itself. Noble argues that far from genes building organisms, they should be seen as prisoners of the organism. The view of life presented in this little, modern, post-genome project reflection on the nature of life, is that of the systems biologist: to understand what life is, we must view it at a variety of different levels, all interacting with each other in a complex web. It is that emergent web, full of feedback between levels, from the gene to the wider environment, that is life. It is a kind of music. Including stories from Noble's own research experience, his work on the heartbeat, musical metaphors, and elements of linguistics and Chinese culture, this very personal and at times deeply lyrical book sets out the systems biology view of life.

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the selfish gene: Biological Emergences Robert G. B. Reid, 2009-08-21 A critique of selectionism and the proposal of an alternate theory of emergent evolution that is causally sufficient for evolutionary biology. Natural selection is commonly interpreted as the fundamental mechanism of evolution. Questions about how selection theory can claim to be the all-sufficient explanation of evolution often go unanswered by today's neo-Darwinists, perhaps for fear that any criticism of the evolutionary paradigm will encourage creationists and proponents of intelligent design. In Biological Emergences, Robert Reid argues that natural selection is not the cause of evolution. He writes that the causes of variations, which he refers to as natural experiments, are independent of natural selection; indeed, he suggests, natural selection may get in the way of evolution. Reid proposes an alternative theory to explain how emergent novelties are generated and under what conditions they can overcome the resistance of natural selection. He suggests that what causes innovative variation causes evolution, and that these phenomena are environmental as well as organismal. After an extended critique of selectionism, Reid constructs an emergence theory of evolution, first examining the evidence in three causal arenas of emergent evolution: symbiosis/association, evolutionary physiology/behavior, and developmental evolution. Based on this evidence of causation, he proposes some working hypotheses, examining mechanisms and processes common to all three arenas, and arrives at a theoretical framework that accounts for generative mechanisms and emergent qualities. Without selectionism, Reid argues, evolutionary innovation can more easily be integrated into a general thesis. Finally, Reid proposes a biological synthesis of rapid emergent evolutionary phases and the prolonged, dynamically stable, non-evolutionary phases imposed by natural selection.

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the selfish gene: An Appetite For Wonder: The Making of a Scientist Richard Dawkins, 2013-09-12 Born to parents who were enthusiastic naturalists, and linked through his wider family to a clutch of accomplished scientists, Richard Dawkins was bound to have biology in his genes. But what were the influences that shaped his life? And who inspired him to become the pioneering scientist and public thinker now famous (and infamous to some) around the world? In An Appetite for Wonder we join him on a personal journey from an enchanting childhood in colonial Africa, through the eccentricities of boarding school in England, to his studies at the University of Oxford's

dynamic Zoology Department, which sparked his radical new vision of Darwinism, The Selfish Gene. Through Dawkins's honest self-reflection, touching reminiscences and witty anecdotes, we are finally able to understand the private influences that shaped the public man who, more than anyone else in his generation, explained our own origins.

the selfish gene: In the Light of Evolution National Academy of Sciences, 2007 The Arthur M. Sackler Colloquia of the National Academy of Sciences address scientific topics of broad and current interest, cutting across the boundaries of traditional disciplines. Each year, four or five such colloquia are scheduled, typically two days in length and international in scope. Colloquia are organized by a member of the Academy, often with the assistance of an organizing committee, and feature presentations by leading scientists in the field and discussions with a hundred or more researchers with an interest in the topic. Colloquia presentations are recorded and posted on the National Academy of Sciences Sackler colloquia website and published on CD-ROM. These Colloquia are made possible by a generous gift from Mrs. Jill Sackler, in memory of her husband, Arthur M. Sackler.

the selfish gene: River Out of Eden Richard Dawkins, 2008-08-04 How did the replication bomb we call "life" begin and where in the world, or rather, in the universe, is it heading? Writing with characteristic wit and an ability to clarify complex phenomena (the New York Times described his style as "the sort of science writing that makes the reader feel like a genius"), Richard Dawkins confronts this ancient mystery.

the selfish gene: Dawkins' God Alister E. McGrath, 2015-01-20 A fully updated new edition of a critically acclaimed examination of the theories and writings of Richard Dawkins by a world-renowned expert on the relation of science and religion Includes in-depth analysis of Dawkins' landmark treatise The God Delusion (2006), as well as coverage of his later popular works The Magic of Reality (2011) and The Greatest Show on Earth (2011), and a new chapter on Dawkins as a popularizer of science Tackles Dawkins' hostile and controversial views on religion, and examine the religious implications of his scientific ideas including a comprehensive investigation of the 'selfish gene' Written in an accessible and engaging style that will appeal to anyone interested in better understanding the interplay between science and religion

the selfish gene: A Little Life Hanya Yanagihara, 2016-01-26 NEW YORK TIMES BESTSELLER
• A stunning "portrait of the enduring grace of friendship" (NPR) about the families we are born into, and those that we make for ourselves. A masterful depiction of love in the twenty-first century. NATIONAL BOOK AWARD FINALIST • MAN BOOKER PRIZE FINALIST • WINNER OF THE KIRKUS PRIZE A Little Life follows four college classmates—broke, adrift, and buoyed only by their friendship and ambition—as they move to New York in search of fame and fortune. While their relationships, which are tinged by addiction, success, and pride, deepen over the decades, the men are held together by their devotion to the brilliant, enigmatic Jude, a man scarred by an unspeakable childhood trauma. A hymn to brotherly bonds and a masterful depiction of love in the twenty-first century, Hanya Yanagihara's stunning novel is about the families we are born into, and those that we make for ourselves. Look for Hanya Yanagihara's latest bestselling novel, To Paradise.

the selfish gene: SCUM Manifesto Valerie Solanas, 2016-04-05 Classic radical feminist statement from the woman who shot Andy Warhol "Life in this society being, at best, an utter bore and no aspect of society being at all relevant to women, there remains to civic-minded, responsible, thrill-seeking females only to overthrow the government, eliminate the money system, institute complete automation and destroy the male sex." Outrageous and violent, SCUM Manifesto was widely lambasted when it first appeared in 1968. Valerie Solanas, the woman who shot Andy Warhol, self-published the book just before she became a notorious household name and was confined to a mental institution. But for all its vitriol, it is impossible to dismiss as the mere rantings of a lesbian lunatic. In fact, the work has proved prescient, not only as a radical feminist analysis light years ahead of its time—predicting artificial insemination, ATMs, a feminist uprising against underrepresentation in the arts—but also as a stunning testament to the rage of an abused and destitute woman. In this edition, philosopher Avital Ronell's introduction reconsiders the evocative

exuberance of this infamous text.

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the selfish gene: Frozen Evolution Jaroslav Flegr, 2008

the selfish gene: Summary of The Selfish Gene Readtrepreneur Publishing, 2019-05-24 The Selfish Gene: by Richard Dawkins - Book Summary - Readtrepreneur (Disclaimer: This is NOT the original book, but an unofficial summary.) An entirely different approach to one of the most controversial theories in the world. The Selfish Gene is a reformulation of the theory of natural selection developed by Charles Darwin. This classic is focused on the nature of altruism and selfishness that creatures have. Despite that any living creature is focused on his well-being, the study reveals that they have a natural sense of altruism as well. Many creatures have a tendency of sacrificing themselves for their loved ones' safety. (Note: This summary is wholly written and published by Readtrepreneur. It is not affiliated with the original author in any way) Any altruistic system is inherently unstable, because it is open to abuse by selfish individuals, ready to exploit it. -Richard Dawkins Richard Dawkins' title is an interesting look into the nature of living creatures. An incredibly complex topic developed perfectly so any person interested in reading it can enjoy and learn a lot from the book. Richard Dawkins reveals many things we didn't know about Charles Darwin's natural selection theory. P.S. The Selfish Gene is an extremely informative book which will teach you a lot about the most primal side of any living creature. The Time for Thinking is Over! Time for Action! Scroll Up Now and Click on the Buy now with 1-Click Button to Grab your Copy Right Away! Why Choose Us, Readtrepreneur? ● Highest Quality Summaries ● Delivers Amazing Knowledge ● Awesome Refresher ● Clear And Concise Disclaimer Once Again: This book is meant for a great companionship of the original book or to simply get the gist of the original book.

the selfish gene: Why Evolution is True Jerry A. Coyne, 2010-01-14 For all the discussion in the media about creationism and 'Intelligent Design', virtually nothing has been said about the evidence in question - the evidence for evolution by natural selection. Yet, as this succinct and important book shows, that evidence is vast, varied, and magnificent, and drawn from many disparate fields of science. The very latest research is uncovering a stream of evidence revealing evolution in action - from the actual observation of a species splitting into two, to new fossil discoveries, to the deciphering of the evidence stored in our genome. Why Evolution is True weaves together the many threads of modern work in genetics, palaeontology, geology, molecular biology, anatomy, and development to demonstrate the 'indelible stamp' of the processes first proposed by Darwin. It is a crisp, lucid, and accessible statement that will leave no one with an open mind in any doubt about the truth of evolution.

the selfish gene: The Ant and the Peacock Helena Cronin, 1991 This book is a success story. It explains two long-running puzzles of the theory of natural selection. How can natural selection favour those, like the ant, that renounce tooth and claw in favour of the public-spirited ways of the commune? How can it explain the peacock's tail, flamboyant and a burden to its bearer; surely selection would act against useless ornamentation? Helena Cronin's enthralling account blends history, science and philosophy in a gripping tale that is scholarly, entertaining and eminently readable. The hardback edition was selected by Nature as one of the best scientific books in 1992. Also the New York Times chose it as one of their best books of 1992. The author divides her time between the Philosophy Department at the London School of Economics and the Zoology Department at Oxford.

the selfish gene: Climbing Mount Improbable Richard Dawkins, 1997-09-17 A brilliant book celebrating improbability as the engine that drives life, by the acclaimed author of The Selfish Gene and The Blind Watchmaker. The human eye is so complex and works so precisely that surely, one might believe, its current shape and function must be the product of design. How could such an intricate object have come about by chance? Tackling this subject—in writing that the New York Times called a masterpiece—Richard Dawkins builds a carefully reasoned and lovingly illustrated argument for evolutionary adaptation as the mechanism for life on earth. The metaphor of Mount Improbable represents the combination of perfection and improbability that is epitomized in the seemingly designed complexity of living things. Dawkins skillfully guides the reader on a breathtaking journey through the mountain's passes and up its many peaks to demonstrate that following the improbable path to perfection takes time. Evocative illustrations accompany Dawkins's eloquent descriptions of extraordinary adaptations such as the teeming populations of figs, the intricate silken world of spiders, and the evolution of wings on the bodies of flightless animals. And through it all runs the thread of DNA, the molecule of life, responsible for its own destiny on an unending pilgrimage through time. Climbing Mount Improbable is a book of great impact and skill, written by the most prominent Darwinian of our age.

the selfish gene: The Magic of Reality Richard Dawkins, 2012-09-11 The author addresses key scientific questions previously explained by rich mythologies, from the evolution of the first humans and the life cycle of stars to the principles of a rainbow and the origins of the universe.

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