

Origins Fourteen Billion Years Of Cosmic Evolution Neil Degrasse Tyson

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CUNNINGHAM CASSIUS

A Brief History of Earth HMH
 #1 NEW YORK TIMES BESTSELLER • NAACP IMAGE AWARD WINNER • A dramatic expansion of a groundbreaking work of journalism, *The 1619 Project: A New Origin Story* offers a profoundly revealing vision of the American past and present. “[A] groundbreaking compendium . . . bracing and urgent . . . This collection is an extraordinary update to an ongoing project of vital truth-telling.”—*Esquire* NOW AN EMMY-NOMINATED HULU ORIGINAL DOCUSERIES • FINALIST FOR THE KIRKUS PRIZE • ONE OF THE BEST BOOKS OF THE YEAR: *The Washington Post*, *NPR*, *Esquire*, *Marie Claire*, *Electric Lit*, *Ms. magazine*, *Kirkus Reviews*, *Booklist* In late August 1619, a ship arrived in the British colony of Virginia bearing a cargo of twenty to thirty enslaved people from Africa. Their arrival led to the barbaric and unprecedented system of American chattel slavery that would last for the next 250 years. This is sometimes referred to as the country’s original sin, but it is more than that: It is the source of so much that still defines the United States. The *New York Times Magazine*’s award-winning 1619 Project issue reframed our understanding of American history by placing slavery and its continuing legacy at the center of our national narrative. This book substantially expands on that work, weaving together eighteen essays that explore the legacy of slavery in present-day America with thirty-six poems and works of fiction that illuminate key moments of oppression, struggle,

and resistance. The essays show how the inheritance of 1619 reaches into every part of contemporary American society, from politics, music, diet, traffic, and citizenship to capitalism, religion, and our democracy itself. This book that speaks directly to our current moment, contextualizing the systems of race and caste within which we operate today. It reveals long-glossed-over truths around our nation’s founding and construction—and the way that the legacy of slavery did not end with emancipation, but continues to shape contemporary American life. Featuring contributions from: Leslie Alexander • Michelle Alexander • Carol Anderson • Joshua Bennett • Reginald Dwayne Betts • Jamelle Bouie • Anthea Butler • Matthew Desmond • Rita Dove • Camille T. Dungy • Cornelius Eady • Eve L. Ewing • Nikky Finney • Vievee Francis • Yaa Gyasi • Forrest Hamer • Terrance Hayes • Kimberly Annece Henderson • Jeneen Interlandi • Honorée Fanonne Jeffers • Barry Jenkins • Tyehimba Jess • Martha S. Jones • Robert Jones, Jr. • A. Van Jordan • Ibram X. Kendi • Eddie Kendricks • Yusef Komunyakaa • Kevin M. Kruse • Kiese Laymon • Trymaine Lee • Jasmine Mans • Terry McMillan • Tiya Miles • Wesley Morris • Khalil Gibran Muhammad • Lynn Nottage • ZZ Packer • Gregory Pardlo • Darryl Pinckney • Claudia Rankine • Jason Reynolds • Dorothy Roberts • Sonia Sanchez • Tim Seibles • Evie Shockley • Clint Smith • Danez Smith • Patricia Smith • Tracy K. Smith • Bryan Stevenson • Nafissa Thompson-Spires • Natasha Trethewey • Linda Villarosa • Jesmyn Ward
Death By Black Hole Princeton University Press

A *New York Times*-bestselling author explains how the physical world shaped the history of our species When we talk about human history, we often focus on great leaders, population forces, and decisive wars. But how has the earth itself determined our destiny? Our planet wobbles, driving

changes in climate that forced the transition from nomadism to farming. Mountainous terrain led to the development of democracy in Greece. Atmospheric circulation patterns later on shaped the progression of global exploration, colonization, and trade. Even today, voting behavior in the south-east United States ultimately follows the underlying pattern of 75 million-year-old sediments from an ancient sea. Everywhere is the deep imprint of the planetary on the human. From the cultivation of the first crops to the founding of modern states, *Origins* reveals the breathtaking impact of the earth beneath our feet on the shape of our human civilizations.

Some Assembly Required Princeton University Press

Bringing demonstrations of the principles of nature into the living room, Tyson writes in a lucid, easygoing style that finally makes scientific literacy possible for enthusiasts and those with math and science phobias alike.

Your Place in the Universe Penguin

NEW YORK TIMES BESTSELLER Bringing his cosmic perspective to civilization on Earth, Neil deGrasse Tyson shines new light on the crucial fault lines of our time—war, politics, religion, truth, beauty, gender, and race—in a way that stimulates a deeper sense of unity for us all. In a time when our political and cultural views feel more polarized than ever, Tyson provides a much-needed antidote to so much of what divides us, while making a passionate case for the twin chariots of enlightenment—a cosmic perspective and the rationality of science. After thinking deeply about how science sees the world and about Earth as a planet, the human brain has the capacity to reset and recalibrates life’s priorities, shaping the actions we might take in response. No outlook on culture, society, or civilization remains untouched. With crystalline prose, *Starry Messenger* walks us through the scientific palette that sees and paints the world differently. From insights on resolving global conflict to reminders of how precious it is to be alive, Tyson reveals, with warmth and eloquence, an array of brilliant and beautiful truths that apply to us all, informed and enlightened by knowledge of our place in the universe.

The 1619 Project Yale University Press

“Nothing short of a masterpiece.” —NPR Books A New York Times Bestseller and a Washington Post Notable Book of the Year In the most ambitious one-volume American history in decades, award-winning historian Jill Lepore offers a magisterial account of the origins and rise of a divided nation. Widely hailed for its “sweeping, sobering account of the American past” (New York Times Book Review), Jill Lepore’s one-volume history of America places truth itself—a devotion to facts, proof, and evidence—at the center of the nation’s history. The American experiment rests on three ideas—“these truths,” Jefferson called them—political equality, natural rights, and the sovereignty of the people. But has the nation, and democracy itself, delivered on that promise? *These Truths* tells this uniquely American story, beginning in 1492, asking whether the course of events over more than five centuries has proven the nation’s truths, or belied them. To answer that question, Lepore wrestles with the state of American politics, the legacy of slavery, the persistence of inequality, and the nature of technological change. “A nation born in contradiction... will fight, forever, over the meaning of its history,” Lepore writes, but engaging in that struggle by studying the past is part of the work of citizenship. With *These Truths*, Lepore has produced a book that will shape our view of American history for decades to come.

Time Travel in Einstein's Universe MIT Press

The New York Times bestseller: "You gotta read this. It is the most exciting book about Pluto you will ever read in your life." —Jon Stewart When the Rose Center for Earth and Space at the American Museum of Natural History reclassified Pluto as an icy comet, the New York Times proclaimed on page one, "Pluto Not a Planet? Only in New York." Immediately, the public, professionals, and press were choosing sides over Pluto's planethood. Pluto is entrenched in our cultural and emotional view of the cosmos, and Neil deGrasse Tyson, award-winning author and director of the Rose Center, is on a quest to discover why. He stood at the heart of the controversy over Pluto's demotion, and consequently Plutophiles have freely shared their opinions with him, including endless hate mail from third-graders. With his inimitable wit, Tyson delivers a minihistory of planets, describes the oversized characters of the people who study them, and recounts how America's favorite planet was ousted from the cosmic hub.

Cosmic Queries Vintage

By one of Britain's most gifted scientists: a magnificently daring and compulsively readable account of life on Earth (from the "big bang" to the advent of man), based entirely on the most original of all sources--the evidence of fossils. With excitement and driving intelligence, Richard Fortey guides us from the barren globe spinning in space, through the very earliest signs of life in the sulphurous hot springs and volcanic vents of the young planet, the appearance of cells, the slow creation of an atmosphere and the evolution of myriad forms of plants and animals that could then be sustained, including the magnificent era of the dinosaurs, and on to the last moment before the debut of *Homo sapiens*. Ranging across multiple scientific disciplines, explicating in wonderfully clear and refreshing prose their findings and arguments--about the origins of life, the causes of species extinctions and the first appearance of man--Fortey weaves this history out of the most delicate tracers left in rock, stone and earth. He also explains how, on each aspect of nature and life, scientists have reached the understanding we have today, who made the key discoveries, who their opponents were and why certain ideas won. Brimful of wit, fascinating personal experience and high scholarship, this book may well be our best introduction yet to the complex history of life on Earth. A Book-of-the-Month Club Main Selection With 32 pages of photographs

Accessory to War: The Unspoken Alliance Between Astrophysics and the Military W. W. Norton & Company

Neil deGrasse Tyson's #1 New York Times best-selling guide to the cosmos, adapted for young readers. From the basics of physics to big questions about the nature of space and time, celebrated astrophysicist and science communicator Neil deGrasse Tyson breaks down the mysteries of the cosmos into bite-sized pieces. *Astrophysics for Young People in a Hurry* describes the fundamental rules and unknowns of our universe clearly—and with Tyson’s characteristic wit, there’s a lot of fun thrown in, too. This adaptation by Gregory Mone includes full-color photos, infographics, and extra explanations to make even the trickiest concepts accessible. Building on the wonder inspired by outer space, *Astrophysics for Young People in a Hurry* introduces an exciting field and the principles of scientific inquiry to young readers.

Journey of the Universe Basic Books

In this thought-provoking follow-up to his acclaimed *StarTalk* book, uber astrophysicist Neil deGrasse Tyson tackles the world's most important philosophical questions about the universe with wit, wisdom, and cutting-edge science. For science geeks, space and physics nerds, and all who want

to understand their place in the universe, this enlightening new book from Neil deGrasse Tyson offers a unique take on the mysteries and curiosities of the cosmos, building on rich material from his beloved *StarTalk* podcast. In these illuminating pages, illustrated with dazzling photos and revealing graphics, Tyson and co-author James Trefil, a renowned physicist and science popularizer, take on the big questions that humanity has been posing for millennia--How did life begin? What is our place in the universe? Are we alone?--and provide answers based on the most current data, observations, and theories. Populated with paradigm-shifting discoveries that help explain the building blocks of astrophysics, this relatable and entertaining book will engage and inspire readers of all ages, bring sophisticated concepts within reach, and offer a window into the complexities of the cosmos. or all who loved National Geographic's *StarTalk* with Neil deGrasse Tyson, *Cosmos: Possible Worlds*, and *Space Atlas*, this new book will take them on more journeys into the wonders of the universe and beyond.

The Sky Is Not the Limit Univ of California Press

Describes the process by which the author uses knowledge of fossil discoveries and comparative ape and human anatomy to create forensically accurate representations of human beings' ancient ancestors.

One Universe: W. W. Norton & Company

“Who can ask for better cosmic tour guides?” —Michio Kaku Our true origins are not only human, or even terrestrial, but in fact cosmic. Drawing on recent scientific breakthroughs and cross-pollination among geology, biology, astrophysics, and cosmology, *Origins* illuminates the soul-stirring leaps in our understanding of the cosmos. This revised and updated edition features such startling discoveries as the now more than 5,000 detected exoplanets that promise to reveal exciting possibilities for life in the cosmos, and data from a new generation of ground-based and spaceborne observatories that have fundamentally changed what we know about the expanding universe?and maybe even the laws of physics themselves. From the first image of a galaxy’s birth to tantalizing evidence of water not only on Mars but also on the asteroid Ceres, as well as on moons of Jupiter and Saturn, coauthors Neil deGrasse Tyson and Donald Goldsmith conduct an exhilarating tour of the cosmos with clarity and exuberance.

StarTalk W. W. Norton & Company

World-renowned economist Klaus Schwab, Founder and Executive Chairman of the World Economic Forum, explains that we have an opportunity to shape the fourth industrial revolution, which will fundamentally alter how we live and work. Schwab argues that this revolution is different in scale, scope and complexity from any that have come before. Characterized by a range of new technologies that are fusing the physical, digital and biological worlds, the developments are affecting all disciplines, economies, industries and governments, and even challenging ideas about what it means to be human. Artificial intelligence is already all around us, from supercomputers, drones and virtual assistants to 3D printing, DNA sequencing, smart thermostats, wearable sensors and microchips smaller than a grain of sand. But this is just the beginning: nanomaterials 200 times stronger than steel and a million times thinner than a strand of hair and the first transplant of a 3D printed liver are already in development. Imagine “smart factories” in which global systems of manufacturing are coordinated virtually, or implantable mobile phones made of biosynthetic materials. The fourth industrial revolution, says Schwab, is more significant, and its ramifications more profound, than in any prior period of human history. He outlines the key technologies driving this revolution and discusses the major impacts expected on government, business, civil society and individuals. Schwab also offers bold ideas on how to harness these changes and shape a better future—one in which technology empowers people rather than replaces them; progress serves society rather than disrupts it; and in which innovators respect moral and ethical boundaries rather than cross them. We all have the opportunity to contribute to developing new frameworks that advance progress.

Space Chronicles: Facing the Ultimate Frontier National Geographic Books

Since its original landmark publication in 1980, *A People's History of the United States* has been chronicling American history from the bottom up, throwing out the official version of history taught in schools -- with its emphasis on great men in high places -- to focus on the street, the home, and the workplace. Known for its lively, clear prose as well as its scholarly research, *A People's History* is the only volume to tell America's story from the point of view of -- and in the words of -- America's women, factory workers, African-Americans, Native Americans, the working poor, and immigrant laborers. As historian Howard Zinn shows, many of our country's greatest battles -- the fights for a fair wage, an eight-hour workday, child-labor laws, health and safety standards, universal suffrage, women's rights, racial equality -- were carried out at the grassroots level, against bloody resistance. Covering Christopher Columbus's arrival through President Clinton's first term, *A People's History of the United States*, which was nominated for the American Book Award in 1981, features insightful analysis of the most important events in our history. Revised, updated, and featuring a new afterword by the author, this special twentieth anniversary edition continues Zinn's important contribution to a complete and balanced understanding of American history.

Astrophysics for Young People in a Hurry Yale University Press

An exciting and accessible new view of the evolution of human and animal life on Earth. From the author of national bestseller, *Your Inner Fish*, this extraordinary journey of discovery spans centuries, as explorers and scientists seek to understand the origins of life's immense diversity. “Fossils, DNA, scientists with a penchant for suits of armor—what’s not to love?”—BBC Wildlife Magazine Over billions of years, ancient fish evolved to walk on land, reptiles transformed into birds that fly, and apelike primates evolved into humans that walk on two legs, talk, and write. For more than a century, paleontologists have traveled the globe to find fossils that show how such changes have happened. We have now arrived at a remarkable moment—prehistoric fossils coupled with new DNA technology have given us the tools to answer some of the basic questions of our existence: How do big changes in evolution happen? Is our presence on Earth the product of mere chance? This new science reveals a multibillion-year evolutionary history filled with twists and turns, trial and error, accident and invention. In *Some Assembly Required*, Neil Shubin takes readers on a journey of discovery spanning centuries, as explorers and scientists seek to understand the origins of life's immense diversity.

Shaping Humanity Springer Nature

Presenting a rich array of stereoscopic color images, which can be viewed in 3D using a special stereo viewer that folds easily out of the cover of the book, this book reveals your cosmic environment as you have never seen it before. Journey into the vast depths of the observable universe by visualising the most spectacular images in astronomy in stereoscopic 3D. Welcome to the Universe in 3D takes you on a grand tour of the observable

universe, guiding you through the most spectacular sights in the cosmos a in breathtaking 3D. Astronomy is the story of how humankind's perception of the two-dimensional dome of the sky evolved into a far deeper comprehension of an expanding three-dimensional cosmos. This book invites you to take part in this story by exploring the universe in depth, as revealed by cutting-edge astronomical research and observations. You will journey from the Moon through the solar system, out to exoplanets, distant nebulae, and galaxy clusters, until you finally reach the cosmic microwave background radiation (or CMB), the most distant light we can observe. The distances to these celestial wonders range from 1.3 light-seconds to 13.8 billion light-years. Along the way, the authors explain the fascinating features of what you are seeing, including how the 3D images were made using the same technique that early astronomers devised to measure distances to objects in space. The dramatic 3D images in this one-of-a-kind book will astonish you, extending your vision out to the farthest reaches of the universe. You will never look up into the night sky the same way again.

The Origins of Everything in 100 Pages (More or Less) Currency

From the author of *Astrophysics for People in a Hurry* and the host of *Cosmos: A Spacetime Odyssey*, a memoir about growing up and a young man's budding scientific curiosity. This is the absorbing story of Neil deGrasse Tyson's lifelong fascination with the night sky, a restless wonder that began some thirty years ago on the roof of his Bronx apartment building and eventually led him to become the director of the Hayden Planetarium. A unique chronicle of a young man who at one time was both nerd and jock, Tyson's memoir could well inspire other similarly curious youngsters to pursue their dreams. Like many athletic kids he played baseball, won medals in track and swimming, and was captain of his high school wrestling team. But at the same time he was setting up a telescope on winter nights, taking an advanced astronomy course at the Hayden Planetarium, and spending a summer vacation at an astronomy camp in the Mojave Desert. Eventually, his scientific curiosity prevailed, and he went on to graduate in physics from Harvard and to earn a Ph.D. in astrophysics from Columbia. There followed postdoctoral research at Princeton. In 1996, he became the director of the Hayden Planetarium, where some twenty-five years earlier he had been awed by the spectacular vista in the sky theater. Tyson pays tribute to the key teachers and mentors who recognized his precocious interests and abilities, and helped him succeed. He intersperses personal reminiscences with thoughts on scientific literacy, careful science vs. media hype, the possibility that a meteor could someday hit the Earth, dealing with society's racial stereotypes, what science can and cannot say about the existence of God, and many other interesting insights about science, society, and the nature of the universe. Now available in paperback with a new preface and other additions, this engaging memoir will enlighten and inspire an appreciation of astronomy and the wonders of our universe.

Welcome to the Universe One World

Australopithecines, dinosaurs, trilobites--such fossils conjure up images of lost worlds filled with vanished organisms. But in the full history of life, ancient animals, even the trilobites, form only the half-billion-year tip of a nearly four-billion-year iceberg. Andrew Knoll explores the deep history of life from its origins on a young planet to the incredible Cambrian explosion, presenting a compelling new explanation for the emergence of biological novelty. The very latest discoveries in paleontology--many of them made by the author and his students--are integrated with emerging insights from molecular biology and earth system science to forge a broad understanding of how the biological diversity that surrounds us came to be. Moving from Siberia to Namibia to the Bahamas, Knoll shows how life and environment have evolved together through Earth's history. Innovations in biology have helped shape our air and oceans, and, just as surely, environmental change has influenced the course of evolution, repeatedly closing off opportunities for some species while opening avenues for others. Readers go into the field to confront fossils, enter the lab to discern the inner workings of cells, and alight on Mars to ask how our terrestrial experience can guide exploration for life beyond our planet. Along the way, Knoll brings us up-to-date on some of science's hottest questions, from the oldest fossils and claims of life beyond the Earth to the hypothesis of global glaciation and Knoll's own unifying concept of "permissive ecology." In laying bare Earth's deepest biological roots, *Life on a Young Planet* helps us understand

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- [Daisy Jones & The Six: A Novel](#)
- [The Five-star Weekend](#)
- [The Wonderful Things You Will Be](#)
- [Tucker](#)
- [The Woman In Me](#)
- [Stone Maidens By Lloyd Devereux Richards](#)
- [A Court Of Frost And Starlight \(a Court Of Thorns And Roses, 4\) By Sarah J. Maas](#)

our own place in the universe--and our responsibility as stewards of a world four billion years in the making. In a new preface, Knoll describes how the field has broadened and deepened in the decade since the book's original publication.

Life on a Young Planet University of Chicago Press

Taking advantage of recent advances throughout the sciences, Matthew Hedman brings the distant past closer to us than it has ever been. Here, he shows how scientists have determined the age of everything from the colonization of the New World over 13,000 years ago to the origin of the universe nearly fourteen billion years ago. Hedman details, for example, how interdisciplinary studies of the Great Pyramids of Egypt can determine exactly when and how these incredible structures were built. He shows how the remains of humble trees can illuminate how the surface of the sun has changed over the past ten millennia. And he also explores how the origins of the earth, solar system, and universe are being discerned with help from rocks that fall from the sky, the light from distant stars, and even the static seen on television sets. Covering a wide range of time scales, from the Big Bang to human history, *The Age of Everything* is a provocative and far-ranging look at how science has determined the age of everything from modern mammals to the oldest stars, and will be indispensable for all armchair time travelers. "We are used to being told confidently of an enormous, measurable past: that some collection of dusty bones is tens of thousands of years old, or that astronomical bodies have an age of some billions. But how exactly do scientists come to know these things? That is the subject of this quite fascinating book. . . . As told by Hedman, an astronomer, each story is a marvel of compressed exegesis that takes into account some of the most modern and intriguing hypotheses."—Steven Poole, *Guardian* "Hedman is worth reading because he is careful to present both the power and peril of trying to extract precise chronological data. These are all very active areas of study, and as you read Hedman you begin to see how researchers have to be both very careful and incredibly audacious, and how much of our understanding of ourselves—through history, through paleontology, through astronomy—depends on determining the age of everything."—Anthony Doerr, *Boston Globe*

A People's History of the United States W. W. Norton & Company

New York Times Bestseller A luminous companion to the phenomenal bestseller *Astrophysics for People in a Hurry*. Astrophysicist Neil deGrasse Tyson has attracted one of the world's largest online followings with his fascinating, widely accessible insights into science and our universe. Now, Tyson invites us to go behind the scenes of his public fame by revealing his correspondence with people across the globe who have sought him out in search of answers. In this hand-picked collection of 101 letters, Tyson draws upon cosmic perspectives to address a vast array of questions about science, faith, philosophy, life, and of course, Pluto. His succinct, opinionated, passionate, and often funny responses reflect his popularity and standing as a leading educator. Tyson's 2017 bestseller *Astrophysics for People in a Hurry* offered more than one million readers an insightful and accessible understanding of the universe. Tyson's most candid and heartfelt writing yet, *Letters from an Astrophysicist* introduces us to a newly personal dimension of Tyson's quest to explore our place in the cosmos.

The True Story of Modern Cosmology Blackstone Publishing

A pocket-style edition based on the New York Times bestseller *A Brief Welcome to the Universe* offers a breathtaking tour of the cosmos, from planets, stars, and galaxies to black holes and time loops. Bestselling authors and acclaimed astrophysicists Neil deGrasse Tyson, Michael A. Strauss, and J. Richard Gott take readers on an unforgettable journey of exploration to reveal how our universe actually works. Propelling you from our home solar system to the outermost frontiers of space, this book builds your cosmic insight and perspective through a marvelously entertaining narrative. How do stars live and die? What are the prospects of intelligent life elsewhere in the universe? How did the universe begin? Why is it expanding and accelerating? Is our universe alone or part of an infinite multiverse? Exploring these and many other questions, this pocket-friendly book is your passport into the wonders of our evolving cosmos.