Decoding Theory Of Knowledge For The Ib Diploma Themes Skills And Assessment

What cognitive processes and skills do children draw on to make meaning from text? How are these capacities consolidated over the course of development? What puts some learners at risk for comprehension difficulties? This authoritative volume presents state-of-the-science research on the behavioral and biological components of successful reading comprehension. Uniquely integrative, the book covers everything from decoding, fluency, and vocabulary knowledge to embodiment theory, eye movements, gene–environment interactions, and neurobiology. The contributors are prominent investigators who describe their methods and findings in depth and identify important implications for the classroom.

This open access book provides a concise explanation of the fundamentals and background of the surround sound recording and playback technology Ambisonics. It equips readers with the psychoacoustical, signal processing, acoustical, and mathematical knowledge needed to understand the inner workings of modern processing utilities, special equipment for recording, manipulation, and reproduction in the higher-order Ambisonic format. The book comes with various practical examples based on free software tools and open scientific data for reproducible research. The book’s introductory section offers a perspective on Ambisonics spanning from the origins of coincident recordings in the 1930s to the Ambisonic concepts of the 1970s, as well as classical ways of applying Ambisonics in first-order coincident sound scene recording and reproduction that have been practiced since the 1980s. As, from time to time, the underlying mathematics become quite involved, but should be comprehensive without sacrificing readability, the book includes an extensive mathematical appendix. The book offers readers a deeper understanding of Ambisonic technologies, and will especially benefit scientists, audio-system and audio-recording engineers. In the advanced sections of the book, fundamentals and modern techniques as higher-order Ambisonic decoding, 3D audio effects, and higher-order recording are explained. Those techniques are shown to be suitable to supply audience areas ranging from studio-sized to hundreds of listeners, or headphone-based playback, regardless whether it is live, interactive, or studio-produced 3D audio material.

Introduces machine learning and its algorithmic paradigms, explaining the principles behind automated learning approaches and the considerations underlying their usage. Examines the basic stages in a child’s development of reading skills and suggests methods for aiding this learning process in school and at home.

NATIONAL BESTSELLER For readers of Atomic Habits, Deep Work, and Peak comes a game-changing approach to mastering new skills and succeeding faster. For generations, we’ve been taught there are two ways to succeed—either from talent or practice. In Decoding Greatness, award-winning social psychologist Ron Friedman illuminates a powerful third path—one that has quietly launched icons in a wide range of fields, from artists, writers, and chefs, to athletes, inventors, and entrepreneurs: reverse engineering. To reverse engineer is to look beyond what is evident on the surface and find a hidden structure. It’s the ability to taste an intoxicating dish and deduce its recipe, to listen to a beautiful song and discern its chord progression, to watch a horror film and grasp its narrative arc. Using eye-opening examples of top performers—from Agatha Christie to Andy Warhol, Barack Obama to Serena Williams—and groundbreaking research on pattern recognition, skill acquisition, and creative genius, Friedman reveals the staggering power of reverse engineering and teaches you how to harness this vital skill for yourself. You’ll learn how to take apart models you admire, pinpoint precisely what makes them work, and apply that knowledge to develop novel ideas, methods, and products that are uniquely your own. Along the way, you’ll meet the culinary detective who exposes top-secret recipes, the burglar who can visit a bank and recreate its blueprints, and the celebrated artist who reverse engineered his way to the top of his profession without any formal education. You don’t have to be a genius to achieve greatness, but you do need a method for getting there. Bursting with unforgettable stories and actionable strategies, Decoding Greatness is an indispensable guide to learning from the best, improving your skills, and sparking breakthrough ideas.

Learn to communicate with your dog—using their language “Good reading for dog lovers and an immensely useful manual for dog owners.”—The Washington Post An Applied Animal Behaviorist and dog trainer with more than twenty years’ experience, Dr. Patricia McConnell reveals a revolutionary new perspective on our relationship with dogs—sharing insights on how “man’s best friend” might interpret our behavior, as well as essential advice on how to interact with our four-legged friends in ways that bring out the best in them. After all, humans and dogs are two entirely different species, each shaped by its individual evolutionary heritage. Quite simply, humans are primates and dogs are canids (as are wolves, coyotes, and foxes). Since we each speak a different native tongue, a lot gets lost in the translation. This marvelous guide demonstrates how even the slightest changes in our voices and in the ways we stand can help dogs understand what we want. Inside you will discover: • How you can get your dog to come when called by acting less like a primate and more like a dog • Why the advice to “get dominance” over your dog can cause problems • Why “rough and tumble primate play” can lead to trouble—and how to play with your dog in ways that are fun and keep him out of mischief • How dogs and humans share personality types—and why most dogs want to live with benevolent leaders rather than “alpha wanna-bes!” Fascinating, insightful, and compelling, The Other End of the Leash is a book that strives to help you connect with your dog in a completely new way—so as to enrich that most rewarding of relationships.

This book uses recent computational models to explore issues related to language and cognition. The cutting-edge, scientifically accurate, definitive book on the most popular behavioral issues that cats face In the United States, one of the predominant reasons that owners abandon or give up their pets (often leading to euthanasia) is because of unwanted behaviors. Many have tried to instruct proper cat training, but this is the first book of its kind to provide an in-depth understanding of the underlying reasons for a cat’s problem behavior, the essential key to unlocking the best for your cat and avoiding pitfalls. Decoding Your Cat gives owners new insight on promoting their cat’s physical and psychological health and wellness and maintaining a long and fulfilling relationship together. Written by the leading experts in cat behavior from the American College of Veterinary Behaviorists, with an introduction by animal expert Steve Dale, this book conveys the newest and best information on cat behavioral science in a fun, interesting, and understandable way. Together with anecdotes from real life situations and the science behind how cats relate to their world, Decoding Your Cat empowers owners to provide a home environment that is happy, safe, and functional, to identify and seek treatment for medical health problems, to understand how to deal with unwanted behaviors, and in general to help cats live longer and fuller lives.

Decoding Branding explains the evolution of branding and how the disrupting factors like digital revolution, technological advancement, changing consumer behavior, and the COVID-19 pandemic have reshaped the marketing landscape. Fundamental principles of fostering strong brands are distilled with illustrations of case studies from various industries. A structured and holistic framework to building and
revamping brands is clearly presented for corporations to remain competitive in this constantly changing operating environment. Interviews with branding experts and corporate leaders are featured at the end of each chapter to allow readers to obtain a complete appreciation of brand development from different perspectives.

The highly original satire about Oedipa Maas, a woman who finds herself enmeshed in a worldwide conspiracy, meets some extremely interesting characters and attains a not inconsiderable amount of self-knowledge.

The board-certified specialists of the American College of Veterinary Behaviorists here to decode how dogs think, how they communicate, and how they learn. More than 90 percent of dog owners consider their pets to be members of their family. But often, despite our best intentions, we are letting our dogs down by not giving them the guidance and direction they need. Unwanted behavior is the number-one reason dogs are relinquished to shelters and rescue groups. The key to training dogs effectively is first to understand why our dogs do what they do. And no one can address this more authoritatively than the diplomates of the American College of Veterinary Behaviorists, whose expert and researched work analyze problem behaviors and correct common misconceptions. With veterinary-approved positive training methods, expert advice on socialization, and remedies for behavior problems such as OCD and aggression, Decoding Your Dog is the must-have behavior guide that will challenge the way we think about man’s best friend.

The untold story of the root cause of America's education crisis—and the seemingly endless cycle of multigenerational poverty. It was only after years within the education reform movement that Natalie Wexler stumbled across a hidden explanation for our country's frustrating lack of progress when it comes to providing every child with a quality education. The problem wasn't one of the usual scapegoats: lazy teachers, shoddy facilities, lack of accountability. It was something no one was talking about: the elementary school curriculum’s intense focus on decontextualized reading comprehension "skills" at the expense of actual knowledge. In the tradition of Dale Russakoff's The Prize and Dana Goldstein's The Teacher Wars, Wexler brings together history, research, and compelling characters to pull back the curtain on this fundamental flaw in our education system—one that fellow reformers, journalists, and policymakers have long overlooked, and of which the general public, including many parents, remains unaware. But The Knowledge Gap isn't just a story of what schools have gotten so wrong—it also follows innovative educators who are in the process of shedding their deeply ingrained habits, and describes the rewards that have come along: students who are not only excited to learn but are also acquiring the knowledge and vocabulary that will enable them to succeed. If we truly want to fix our education system and unlock the potential of our neediest children, we have no choice but to pay attention.

The Science of Reading: A Handbook brings together state-of-the-art reviews of reading research from leading names in the field, to create a highly authoritative, multidisciplinary overview of contemporary knowledge about reading and related skills. Provides comprehensive coverage of the subject, including theoretical approaches, reading processes, stage models of reading, cross-linguistic studies of reading, reading difficulties, and reading instruction. Divided into seven sections: Word Recognition Processes in Reading; Learning to Read and Spell; Reading Comprehension; Reading in Different Languages; Disorders of Reading and Spelling; Biological Bases of Reading; Teaching Reading Edited by well-respected senior figures in the field.

A fascinating look at the philosophical, social, and intellectual legacy of one of the twentieth century’s most influential and controversial minds Occupying a pivotal position in postwar thought, Noam Chomsky is both the founder of modern linguistics and the world's most prominent political dissident. Chris Knight adopts an anthropologist's perspective on the twin output of this intellectual giant, acclaimed as much for his denunciations of US foreign policy as for his theories about language and mind. Knight explores the social and institutional context of Chomsky's thinking, showing how the tension between military funding and his role as linchpin of the political left pressured him to establish a disconnect between science on the one hand and politics on the other, deepening a split between mind and body characteristic of Western philosophy since the Enlightenment. Provocative, fearless, and engaging, this remarkable study explains the enigma of one of the greatest intellectuals of our time.

Software is more than a set of instructions for computers: it enables (and disables) political imperatives and policies. Nowhere is the case for radical social and political change more apparent than in the practice and movement known as “free software.” Free software makes the knowledge and innovation of its creators publicly available. This liberation of code—celebrated in free software’s catchy slogan “Think free speech, not free beer”—is the foundation, for example, of the Linux phenomenon. Decoding Liberation provides a synoptic perspective on the relationships between free software and freedom.

Understanding how free software promises to transform not only technology but society as well. How data science and the analysis of networks help us solve the puzzle of unintended consequences. Social life is full of paradoxes. Our intentions often trigger outcomes that we did not intend or even envision. How do we explain those unintended effects and what can we do to regulate them? In Decoding the Social World, Sandra González-Bailón explains how data science and digital traces help us solve the puzzle of unintended consequences—offering the solution to a social paradox that has intrigued thinkers for centuries. Communication has always been the force that makes a collection of people more than the sum of individuals, but only now can we explain why: digital technologies have made it possible to parse the information we generate by being social in new, imaginative ways. And yet we must look at that data, González-Bailón argues, through the lens of theories that capture the nature of social life. The technologies we use, in the end, are also a manifestation of the social world we inhabit. González-Bailón discusses how the unpredictability of social life relates to communication networks, social influence, and the unintended effects that derive from individual decisions. She describes how communication generates social dynamics in aggregate (leading to episodes of “collective efervescence”) and discusses the mechanisms that underlie large-scale diffusion, when information and behavior spread “like wildfire.” She applies the theory of networks to illuminate why collective outcomes can differ drastically even when they arise from the same individual actions. By opening the black box of unintended effects, González-Bailón identifies strategies for social intervention and discusses the policy implications—and how data science and evidence-based research embolden critical thinking in a world that is constantly changing.

For a physicist, all the world is information. The Universe and its workings are the eb and flow of information. We are all transient patterns of information, passing on the recipe for our basic forms to future generations using a four-letter digital code called DNA. In this engaging and mind-stretching account, Vlatko Vedral considers some of the deepest questions about the Universe and considers the implications of interpreting it in terms of information. He explains the nature of information, the idea of entropy, and the roots of this thinking in thermodynamics. He describes the bizarre effects of quantum behaviour — effects such as ‘entanglement’, which Einstein called ‘spooky action at a distance’, and explores cutting edge work on harnessing quantum effects in hyperfast quantum computers, and how recent evidence suggests that the weirdness of the quantum world, once thought limited to the tiniest scales, may reach into the macro world. Vedral finishes by considering the answer to the ultimate question: where did all of the information in the Universe come from? The answers he considers are exhilarating, drawing upon the work of distinguished physicist John Wheeler. The ideas challenge our concept of the nature of particles, of time, of determinism, and of reality itself. This edition includes a new foreword from the author, reflecting on changes in the world of quantum information since first publication. Oxford Landmark Science books are 'must-read' classics of modern science writing which have crystallized big ideas, and shaped the way we think.

Argues that American children are deprived of cultural literacy.
Teaching and learning in a college setting has never been more challenging. How can instructors reach out to their students and fully engage them in the conversation? Applicable to multiple disciplines, the Decoding the Disciplines Paradigm offers a radically new model for helping students respond to the challenges of college and provides a framework for understanding why students find academic life so arduous. Teachers can help their pupils overcome obstacles by identifying bottlenecks to learning and systematically exploring the steps needed to overcome these obstacles. Often, experts find it difficult to define the mental operations necessary to master their discipline because they have become so automatic that they are invisible. However, once these mental operations have been made explicit, the teacher can model them for students, create opportunities for practice and feedback, manage additional emotional obstacles, assess results, and share what has been learned with others.

This book examines democracy and governance from the unconventional and largely under researched vantage point of information. It looks at the exclusionary informational dynamics in democracy and analyses the role of information capitalism, new technology, virtual networks, cyberspace and media. While emphasizing the foundational value of information as the ‘source code’ of modern societies the book explains how it is strategically maneuvered in technologies of governance in so-called established and credible democracies. It studies the neutralization and subversion as well as the complex, nuanced and multidimensional act of othering of people, who are supposed to be the repositories of power in democracy and in whose interest the business of governance is expected to be conducted. The work highlights the challenges of technocratic interpretations, stunted public policy communication, hyped information society, cooption through the state-of-the-art capitalism, rhetoric of virtual networks and the often-unilateral agenda of mainstream media. A major intervention in understanding the nature of contemporary democracy and politics, this volume will be of great interest to scholars and researchers of politics, media, political communication and technology studies.

Channel coding lies at the heart of digital communication and data storage, and this detailed introduction describes the core theory as well as decoding algorithms, implementation details, and performance analyses. In this book, Professors Ryan and Lin provide clear information on modern channel codes, including turbo and low-density parity-check (LDPC) codes. They also present detailed coverage of BCH codes, Reed-Solomon codes, convolutional codes, finite geometry codes, and product codes, providing a one-stop resource for both classical and modern coding techniques. Assuming no prior knowledge in the field of channel coding, the opening chapters begin with basic theory to introduce newcomers to the subject. Later chapters then extend to advanced topics such as code ensemble performance analyses and algebraic code design. 250 varied and stimulating end-of-chapter problems are also included to test and enhance learning, making this an essential resource for students and practitioners alike.

Communication plays a vital and unique role in society—often blamed for problems when it breaks down and at the same time heralded as a panacea for human relations. A sweeping history of communication, Speaking Into the Air illuminates our expectations of communication as both historically specific and a fundamental knot in Western thought. "This is a most interesting and thought-provoking book. . . . Peters maintains that communication is ultimately unthinkable apart from the task of establishing a kingdom in which people can live together peacefully. Given our condition as mortals, communication remains not primarily a problem of technology, but of power, ethics and art." —Antony Anderson, New Scientist "Guaranteed to alter your thinking about communication. . . . Original, erudite, and beautifully written, this book is a gem." —Kirkus Reviews "Peters writes to reclaim the notion of authenticity in a media-saturated world. It's this ultimate concern that renders his book a brave, colorful exploration of the hydra-headed problems presented by a rapid-fire popular culture." —Publishers Weekly What we have here is a failure-to-communicate book. Funny thing is, it communicates beautifully. . . . Speaking Into the Air delivers what superb serious books always do-hours of intellectual challenge as one absorbs the gradually unfolding vision of an erudite, creative author." —Carlin Romano, Philadelphia Inquirer First Published in 2002. Routledge is an imprint of Taylor & Francis, an informa company. Exam Board: IB Subject: English First Teaching: September 2014 First Exam: June 2016 Build confidence in a range of key Theory of Knowledge skills with this practical companion, full of advice and guidance from an experienced TOK expert. - Learn to apply analytical skills with Deeper Analysis, showing you how to go beyond simply identifying and explaining. - Develop awareness of the practical application of knowledge with In Practice pointers, offering guidance on how topics can be used in TOK activities. - Improve skills for formulating genuine knowledge questions for use in activities, a crucial part of assessment success. - Avoid making the mistakes that others make in the assessment with TOK Traps that highlight common errors and misconceptions.

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An analysis of how religious bias shaped U.S. federal Indian law. Developed in cooperation with the International Baccalaureate (IB) Build knowledge with this thought-provoking guide through the core theme, the five optional themes and the five areas of knowledge. - Guide students by helping them examine the nature of knowledge and their own status as a knower. - Develop diverse and balanced arguments with a variety of activities, case studies and Deeper Thinking features. - Aid understanding with in-depth discussions of the twelve course concepts and detailed definitions of all key terms. - Provide assessment support with guidance relating to the TOK Exhibition and Essay. Free online material available at hoddereducation.com/ib-extras Also available: Theory of Knowledge Student eTextbook 9781510475458 Theory of Knowledge Whiteboard eTextbook 9781510475441 Theory of Knowledge: Teaching for Success 9781510474659 Theory of Knowledge: Skills for Success 9781510474956 Theory of Knowledge: Skills for Student eTextbook 9781510475472 We’ve been teaching reading wrong—a leading cognitive scientist tells us how we can finally do it right Decoding Theory of Knowledge for the IB DiplomaThemes, Skills and AssessmentCambridge University Press Variothoughts is a guide to the labyrinths of thought. Concentrate of information. Time is money. Thoughts that will forever change your understanding of life. Knowledge is power. Movement is life, running is energizing. If you run and get tired, then you are running wrong. The reader is offered a thematic set of valuable thoughts, aphorisms and metaphors on the topic indicated in the title of the book. The meaning of Variothoughts is the search for 3D truth. The knowledge of truth comes through the denial of lies, which are infinite, so the act of faith associated with the knowledge of truth is an infinite source of joy and strength. Great thing the truth? Great thing a lie?SoloINC (anc.greek "combining the uncombinable", keeper of the grain")SoloInc Logic, philosopher from the city of Sofia. SoloInc (Diamond Solo / Solodilov Dmitry) Bulgarian psychologist and Stoic philosopher. The author of more than 888 books of the Variothoughts series.Attention! The book was published by the author in the author's version. Book language: syntalist dialect of English. The book contains many strange thoughts, fictitious words and non-standard speech forms. In order to avoid misunderstanding, the author recommends that no one read this book. Find out where our world is headed with this dazzling first-hand account of inventing the future from the #1 New York Times bestselling author of What Should I Do With My Life? and the founder of science accelerator IndieBio. Decoding the World is a buddy adventure about the quest to live meaningfully in a world with such uncertainty. It starts with Po Bronson coming to IndieBio. Arvind Gupta created IndieBio as a laboratory for early biotech startups trying to solve major world problems. Glaciers melting. Dying bees. Infertility. Cancer. Ocean plastic. Pandemics. Arvind is the fearless one, a radical experimentalist. Po is the studious detective, patiently synthesizing clues others have missed. Their styles mix and create a quadratic speedup of creativity. Yin and Yang crystallized. As they travel around the world, finding scientists to join their cause, the authors bring their firsthand experience to the great mysteries that haunt our future. Natural resource depletion. Job-taking robots. China's global influence. Arvind feels he needs to leave IndieBio to help startups do more than just get started.
But as his departure draws near, he struggles to leave the sanctum he created. While Po has to prove he can keep the “indie” in IndieBio after Arvind is gone. After looking through their lens, you'll never see the world the same.

This book represents a significant intervention and, as such, should be used on numerous cultural studies courses. In its intellectual honesty and clarity Tudor's book will stand as an authoritative basis for further developments in the coming years” - David Chaney Decoding Culture offers a concise and accessible account of the development of cultural studies from the late 1950s to the 1990s. Focusing on the significant theoretical and methodological assumptions that have informed the cultural studies project - the text: covers the key thinkers and key perspectives including, structuralism and post-structuralism, Screen theory, the Birmingham School, and audience analysis; offers a timely corrective t

Increasingly interconnected, volatile, and complex, today's organizations cannot be controlled by any conventional approach to management. Indeed, an entirely new definition of what it means to manage is called for. In The Biology of Business, John Clippinger and nine outstanding contributors introduce managers to the Complex Adaptive System (CAS) of management, a system that takes into account all of the variables that impact modern enterprises and allows managers to take control from the bottom up. Here, the authors show how McKinsey & Co., Capital One, and Optimark have employed CAS to achieve specific business goals and improve overall corporate fitness. And they bridge theory and practice to provide managers with proven tools and techniques they can use to transform their enterprises into self-renewing, self-organizing systems that are maximally responsive to changing market conditions and opportunities.[subhead] Featuring Cutting-Edge Contributions by These Noted ScholarsW. Brian Arthur Andy Clark Philip AndersonWilliam G. Macready Christopher Meyer John Julius Sviokla Brook Manville David R. Johnson David Stark

Written by experienced practitioners this resource for Theory of Knowledge for the IB Diploma offers comprehensive coverage of and support for the new subject guide. Decoding Theory of Knowledge (ToK) is an accessible new resource that explores Areas of Knowledge, Ways of Knowing, Personal and Shared Knowledge, the Knowledge Framework and Knowledge Questions. Written in succinct and clear language, this engaging book decodes ToK concepts and helps students develop their critical thinking skills. The book offers extensive support on the new assessment criteria for the essay and presentation. Features include explanation of key concepts to consolidate knowledge and understanding; real-life situations to engage students; practical activities to develop students’ thinking, writing and presentation skills; and top tips to provide further guidance and advice.

Decoding the Irrational Consumer was written to help marketing practitioners demystify neuromarketing, a relatively new field of marketing research used to understand consumer response to marketing stimuli. This book presents in plain terms the key theoretical tools required to implement neuromarketing studies and achieve desired research outcomes. Marketers and researchers will learn how to effectively and confidently brief data processors, and confer with neuroscientists and technicians. They will gain keen understanding of recent developments in behavioural science and data-processing technology, as well as sophisticated neuromarketing tools used to understand subconscious responses including behavioural economics, eye-tracking, implicit response measures, and facial coding. The author discusses when to apply these techniques and others, how to combine them effectively and how to correctly interpret resulting data to generate valuable insights that aid in decision making.

About the series: The Marketing Science series makes difficult topics accessible to marketing students and practitioners by grounding them in business reality. Each book is written by an expert in the field and includes case studies and illustrations enabling marketers to gain confidence in applying the tools and techniques and in commissioning external research.

Confidently navigate the new syllabus with a variety of teaching resources to help you plan engaging lessons that are directly aligned with the Student Book. - Confidently teach the new course with a clear overview of the TOK course and your responsibilities as a TOK teacher. - Ensure full coverage of the syllabus with specific guidance relating to the core theme, the optional themes and the areas of knowledge. - Easily navigate the new course with lesson plans, activities and extension material. - Help guide students through the assessment process with advice relating to the exhibition and essay.

This comprehensive and accessible book is designed for use by students following the Theory of Knowledge course in the International Baccalaureate (IB) Diploma Programme. The book is also useful for students following other critical thinking courses. The fundamental question in Theory of Knowledge is How do you know? In exploring this question, the author encourages critical thinking across a range of subject areas and helps students to ask relevant questions, use language with care and precision, support ideas with evidence, argue coherently and make sound judgements.

Situates the medieval manuscript within its cultural contexts, with chapters by experts in bibliographical and theoretical approaches to manuscript study.

The noted archaeologist explores the varieties of prehistoric cave art across the world and offers surprising insights into its purpose and meaning. What drew our Stone Age ancestors into caves to paint in charcoal and red hematite, to watch the likenesses of lions, bison, horses, and aurochs as they flickered by firelight? Was it a creative impulse, a spiritual dawn, a shamanistic conception of the world? In this book, Jean Clottes, one of the most renowned figures in the study of cave paintings, pursues an answer to the “why” of Paleolithic art. Discussing sites and surveys across the world, Clottes offers personal reflections on how we have viewed these paintings in the past, what we learn from looking at them across geographies, and what these paintings may have meant—and what function they may have served—for their artists. Steeped in Clottes’s shamanistic theories of cave painting, What Is Paleolithic Art? travels from well-known Ice Age sites like Chauvet, Altamira, and Lascaux to visits with contemporary aboriginal artists, evoking a continuum between the cave paintings of our prehistoric past and the living rock art of today. Clottes’s work lifts us from the darkness of our Paleolithic origins to reveal surprising insights into how we think, why we create, why we believe, and who we are.

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