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A comprehensive illustrated exploration of the fascinating science of color Arielle and Joann Eckstut, authors of *The Secret Language of Color*, offer a thorough, readable, and highly visual exploration of the science of color. Organized by 50 of the most essential questions about color across a variety of fields—physics, chemistry, biology, technology, and psychology—this book examines how and why we see color; how color relates to light; what the real primary colors are; how biology, language, and culture affect the colors that we see; and much more. Full of clear and elegant infographics, *What Is Color?* is a must-have for artists and designers, scientists, students, and decorators, and anyone else whose work or play involves color.

Sure-fire techniques of visualizing, dramatizing, and analyzing numbers promise to attract and retain students' attention and understanding. Topics include basic multiplication and division, algebra, word problems, graphs, negative numbers, fractions, many other practical applications of elementary mathematics. 1964 ed. *Answers to Problems*. There are many excellent R resources for visualization, data science, and package development. Hundreds of scattered vignettes, web pages, and forums explain how to use R in particular

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domains. But little has been written on how to simply make R work effectively—until now. This hands-on book teaches novices and experienced R users how to write efficient R code. Drawing on years of experience teaching R courses, authors Colin Gillespie and Robin Lovelace provide practical advice on a range of topics—from optimizing the set-up of RStudio to leveraging C++—that make this book a useful addition to any R user’s bookshelf.

Academics, business users, and programmers from a wide range of backgrounds stand to benefit from the guidance in *Efficient R Programming*. Get advice for setting up an R programming environment
Explore general programming concepts and R coding techniques
Understand the ingredients of an efficient R workflow
Learn how to efficiently read and write data in R
Dive into data carpentry—the vital skill for cleaning raw data
Optimize your code with profiling, standard tricks, and other methods

Determine your hardware capabilities for handling R computation
Maximize the benefits of collaborative R programming
Accelerate your transition from R hacker to R programmer

Brandl's *MONEY, BANKING, FINANCIAL MARKETS AND INSTITUTIONS* brings key financial concepts to life in a clear, concise manner. You clearly see links between the study of macroeconomics and money and banking as you examine financial entities in detail, using the recent economic crisis as a

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backdrop. This unique, inviting book reads almost as a conversation that prepares and encourages you to discuss and debate these important concepts with friends, colleagues and future employers. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

As a veteran emergency room physician, Dr. Brian Goldman has a successful career setting broken bones, curing pneumonia, and otherwise pulling people back from the brink of medical emergency. He always believed that caring came naturally to physicians. But time, stress, errors, and heavy expectations left him wondering if he might not be the same caring doctor he thought he was at the beginning of his career. He wondered what kindness truly looks like—in himself and in others. In *The Power of Kindness*, Goldman leaves the comfortable, familiar surroundings of the hospital in search of his own lost compassion. A top neuroscientist performs an MRI scan of his brain to see if he is hard-wired for empathy. A researcher at Western University in Ontario tests his personality and makes a startling discovery. Goldman then circles the planet in search of the most empathic people alive, to hear their stories and learn their secrets. He visits a boulevard in São Paulo, Brazil, where he meets a woman who calls a homeless poet her soulmate and reunited him with his family; a

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research lab in Kyoto, Japan, where he meets a lifelike, empathetic android; and a nursing home in rural Pennsylvania, where he meets a therapist at a nursing home who has an uncanny knack of knowing what's inside the hearts and minds of people with dementia, as well as her protege, a woman who talked a gun-wielding robber into walking away from his crime. Powerful and engaging, *The Power of Kindness* takes us far from the theatre of medicine and into the world at large, and investigates why kindness is so vital to our existence.

There are many reasons to be curious about the way people learn, and the past several decades have seen an explosion of research that has important implications for individual learning, schooling, workforce training, and policy. In 2000, *How People Learn: Brain, Mind, Experience, and School: Expanded Edition* was published and its influence has been wide and deep. The report summarized insights on the nature of learning in school-aged children; described principles for the design of effective learning environments; and provided examples of how that could be implemented in the classroom. Since then, researchers have continued to investigate the nature of learning and have generated new findings related to the neurological processes involved in learning, individual and cultural variability related to learning, and educational technologies. In addition to expanding

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scientific understanding of the mechanisms of learning and how the brain adapts throughout the lifespan, there have been important discoveries about influences on learning, particularly sociocultural factors and the structure of learning environments. *How People Learn II: Learners, Contexts, and Cultures* provides a much-needed update incorporating insights gained from this research over the past decade. The book expands on the foundation laid out in the 2000 report and takes an in-depth look at the constellation of influences that affect individual learning. *How People Learn II* will become an indispensable resource to understand learning throughout the lifespan for educators of students and adults.

Food engineering refers to the engineering aspects of food production and processing. Food engineering includes, but is not limited to, the application of agricultural engineering and chemical engineering principles to food materials. Genetic engineering of plants and animals is not normally the work of a food engineer. Food engineering is a very wide field of activities. Among its domain of knowledge and action are: Design of machinery and processes to produce foods; Design and implementation of food safety and preservation measures in the production of foods; ;Biotechnological processes of food production; Choice and design of food packaging materials. Quality control of food production. This book deals

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with new and important food engineering research trends.

This Dictionary covers information and communication technology (ICT), including hardware and software; information networks, including the Internet and the World Wide Web; automatic control; and ICT-related computer-aided fields. The Dictionary also lists abbreviated names of relevant organizations, conferences, symposia and workshops. This reference is important for all practitioners and users in the areas mentioned above, and those who consult or write technical material. This Second Edition contains 10,000 new entries, for a total of 33,000.

DLAB Study Guide How People Learn II Learners, Contexts, and Cultures National Academies Press
In this book, philosopher Harry Brighouse and Spencer Foundation president Michael McPherson bring together leading philosophers to think about some of the most fundamental questions that higher education faces. Looking beyond the din of arguments over how universities should be financed, how they should be run, and what their contributions to the economy are, the contributors to this volume set their sights on higher issues: ones of moral and political value. The result is an accessible clarification of the crucial concepts and goals we so often skip over—even as they underlie our educational policies and practices. The contributors tackle the biggest questions in higher education: What are the proper aims of the university? What role do the liberal arts play in fulfilling those aims? What is the justification for the humanities? How should we conceive

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of critical reflection, and how should we teach it to our students? How should professors approach their intellectual relationship with students, both in social interaction and through curriculum? What obligations do elite institutions have to correct for their historical role in racial and social inequality? And, perhaps most important of all: How can the university serve as a model of justice? The result is a refreshingly thoughtful approach to higher education and what it can, and should, be doing.

A companion to "The South Beach Diet" presents more than two hundred recipes that demonstrate how to eat healthfully without compromising taste, outlining the diet's basic philosophies and sharing personal success stories.

Personalized medicine employing patient-based tailor-made therapeutic drugs is taking over treatment paradigms in a variety of fields in oncology and the central nervous system. The success of such therapies is mainly dependent on efficacious therapeutic drugs and a selective imaging probe for identification of potential responders as well as therapy monitoring for an early benefit assessment. Molecular imaging (MI) is based on the selective and specific interaction of a molecular probe with a biological target which is visualized through nuclear, magnetic resonance, near infrared or other methods. Therefore it is the method of choice for patient selection and therapy monitoring as well as for specific e- point monitoring in modern drug development. PET (positron emitting tomography), a nuclear medical imaging modality, is ideally suited to produce three-

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dimensional images of various targets or processes. The rapidly increasing demand for highly selective probes for MI strongly pushes the development of new PET tracers and PET chemistry. 'PET chemistry' can be defined as the study of positron-emitting compounds regarding their synthesis, structure, composition, reactivity, nuclear properties and processes and their properties in natural and - natural environments. In practice PET chemistry is strongly influenced by the unique properties of the radioisotopes used (e. g. , half-life, chemical reactivity, etc.) and integrates scientific aspects of nuclear-, organic-, inorganic- and biochemistry.

This handbook offers the techniques and tactics that make Army Rangers the best soldiers in the world. These highly-trained, easily-deployable, and widely-skilled infantrymen specialize in airborne assault, raids, recovery of personnel and equipment, and airfield seizure, among other difficult and dangerous missions. Drawing from over two centuries of bloody lessons learned in special operations combat, this guide gives modern soldiers the best advice possible. In straightforward language and a no-frills style, it covers deception, stealth, communications, escape and evasion, ambush operations, perimeter defense, counterintelligence, and much more. Handy and concise, this manual was designed so Rangers could easily carry it into the field. Now it is the ultimate resource for anyone who wants to know how Rangers think and work.

On a moonless night just weeks after September 11, 2001, a U.S. Special Forces team of Green Berets known as ODA 574 infiltrated the mountains of southern

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Afghanistan with a seemingly impossible mission: to foment a tribal revolt and force the Taliban to surrender. Armed solely with the equipment they could carry on their backs, shockingly scant intelligence, and their mastery of guerrilla warfare, Captain Jason Amerine and his ten men had no choice but to trust their only ally, a little-known Pashtun statesman named Hamid Karzai. Having returned from exile, Karzai—on the run from the Taliban—was traveling the countryside to raise a militia. *The Only Thing Worth Dying For* chronicles the most important mission in the early days of the Global War on Terror, when the men on the ground knew little about the enemy—and their commanders in Washington knew even less. With unprecedented access to surviving members of ODA 574, key war planners, and Karzai himself, award-winning author Eric Blehm cuts through the noise of politicians and high-level military officials to narrate for the first time a story of uncommon bravery and terrible sacrifice, intimately exposing the realities of unconventional warfare and nation-building in Afghanistan that continue to shape the region today. About ten years after the publication of the Second Edition (1973), it became apparent that it was time for an up-date of this book. This was especially true in this case, since the subject matter has traditionally dealt mainly with the structure, properties, and technology of the various elastomers used in industry, and these are bound to undergo significant changes over the period of a decade. In revising the contents of this volume, it was thought best to keep the original format. Hence the first five chapters discuss the same general subject matter as

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before. The chapters dealing with natural rubber and the synthetic elastomers are up-dated, and an entirely new chapter has been added on the thermoplastic elastomers, which have, of course, grown tremendously in importance. Another innovation is the addition of a new chapter, "Miscellaneous Elastomers," to take care of "old" elastomers, e.g., polysulfides, which have decreased some what in importance, as well as to introduce some of the newly-developed synthetic rubbers which have not yet reached high production levels. The editor wishes to express his sincere appreciation to all the contributors, without whose close cooperation this task would have been impossible. He would especially like to acknowledge the invaluable assistance of Dr. Howard Stephens in the planning of this book, and for his suggestion of suitable authors. A collection of essays analyzing the results of several experimental projects in electronic publishing, all funded at least in part by the Mellon Foundation.

Documents the complete training regimen of the U.S. Army's Special Forces soldiers, the Green Berets, from their initial recruitment, through their physically and mentally grueling course of training, detailing the special character, intelligence, language skills, and adaptability that the Army looks for in selecting these versatile troops. Reprint. 25,000 first printing.

Management, Computers, Computer networks, Management operations, Management techniques, Data processing, IT and Information Management: IT Service Management

Major Richard J. "Dick" Meadows is renowned in military

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circles as a key figure in the development of the U.S. Army Special Operations. A highly decorated war veteran of the engagements in Korea and Vietnam, Meadows was instrumental in the founding of the U.S. Delta Force and hostage rescue force. Although he officially retired in 1977, Meadows could never leave the army behind, and he went undercover in the clandestine operations to free American hostages from Iran in 1980. *The Quiet Professional: Major Richard J. Meadows of the U.S. Army Special Forces* is the only biography of this exemplary soldier's life. Military historian Alan Hoe offers unique insight into Meadows, having served alongside him in 1960. *The Quiet Professional* is an insider's account that gives a human face to U.S. military strategy during the cold war. Major Meadows often claimed that he never achieved anything significant; *The Quiet Professional* proves otherwise, showcasing one of the great military minds of twentieth-century America.

EARLY BIRD BODY SYSTEMS TEACHING GUIDE

Knowledge in the field of parasitology must be kept at a high level and up to date in order to fight a parasitosis as quickly and effectively as possible. The third edition of this, one of Springer's renowned and authoritative Major Reference Works, contributes to these goals in several ways. First, the number of entries has been increased by about 30%. Secondly the content has been improved even more by adding additional tables and figures. Thirdly, the extensive linking between definitions and essays facilitates information within a minimum of time. More than 40 international contributors, who are well known specialists in their fields, give a comprehensive

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review of all parasites and therapeutic strategies in veterinarian and human parasitology.

Many students find it difficult to learn the kind of knowledge and thinking required by college or high school courses in mathematics, science, or other complex domains. Thus they often emerge with significant misconceptions, fragmented knowledge, and inadequate problem-solving skills. Most instructors or textbook authors approach their teaching efforts with a good knowledge of their field of expertise but little awareness of the underlying thought processes and kinds of knowledge required for learning in scientific domains. In this book, Frederick Reif presents an accessible coherent introduction to some of the cognitive issues important for thinking and learning in scientific or other complex domains (such as mathematics, science, physics, chemistry, biology, engineering, or expository writing). Reif, whose experience teaching physics at the University of California led him to explore the relevance of cognitive science to education, examines with some care the kinds of knowledge and thought processes needed for good performance; discusses the difficulties faced by students trying to deal with unfamiliar scientific domains; describes some explicit teaching methods that can help students learn the requisite knowledge and thinking skills; and indicates how such methods can be implemented by instructors or textbook authors. Writing from a practically applied rather than predominantly theoretical perspective, Reif shows how findings from recent research in cognitive science can be applied to education. He discusses cognitive issues related to the kind of knowledge and thinking skills that are needed for science or mathematics courses in high school or colleges and that are essential prerequisites for more advanced intellectual performance. In particular, he argues that a better understanding of the underlying cognitive

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mechanisms should help to achieve a more scientific approach to science education. Frederick Reif is Emeritus Professor of Physics and Education at Carnegie Mellon University and the University of California, Berkeley. STEM Road Map: A Framework for Integrated STEM Education is the first resource to offer an integrated STEM curricula encompassing the entire K-12 spectrum, with complete grade-level learning based on a spiraled approach to building conceptual understanding. A team of over thirty STEM education professionals from across the U.S. collaborated on the important work of mapping out the Common Core standards in mathematics and English/language arts, the Next Generation Science Standards performance expectations, and the Framework for 21st Century Learning into a coordinated, integrated, STEM education curriculum map. The book is structured in three main parts—Conceptualizing STEM, STEM Curriculum Maps, and Building Capacity for STEM—designed to build common understandings of integrated STEM, provide rich curriculum maps for implementing integrated STEM at the classroom level, and supports to enable systemic transformation to an integrated STEM approach. The STEM Road Map places the power into educators' hands to implement integrated STEM learning within their classrooms without the need for extensive resources, making it a reality for all students. This fully updated Second Edition focuses sharply on clinical PET-CT and SPECT-CT examinations, omitting lengthy physics discussions. The book is now strictly disease oriented and integrates PET-CT and SPECT-CT applications completely. When both techniques are relevant for a disease, they are discussed together; when only one is relevant, it is discussed alone. More than 1,200 illustrations are included. A bound-in DVD contains over 80 cases to be viewed in three orthogonal planes and different CT windows organized as

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reference and self-assessment files. The cases provide excellent training and allow readers to test their abilities in making diagnoses on their own.

Special Forces soldiers are daring, seasoned troops from America's heartland, selected in a tough competition and trained in an extraordinary range of skills. They know foreign languages and cultures and unconventional warfare better than any U.S. fighters, and while they prefer to stay out of the limelight, veteran war correspondent Linda Robinson gained access to their closed world. She traveled with them on the frontlines, interviewed them at length on their home bases, and studied their doctrine, methods and history. In *Masters of Chaos* she tells their story through a select group of senior sergeants and field-grade officers, a band of unforgettable characters like Rawhide, Killer, Michael T, and Alan -- led by the unflappable Lt. Col. Chris Conner and Col. Charlie Cleveland, a brilliant but self-effacing West Pointer who led the largest unconventional war campaign since Vietnam in northern Iraq. Robinson follows the Special Forces from their first post-Vietnam combat in Panama, El Salvador, Desert Storm, Somalia, and the Balkans to their recent trials and triumphs in Afghanistan and Iraq. She witnessed their secret sleuthing and unsung successes in southern Iraq, and recounts here for the first time the dramatic firefights of the western desert. Her blow-by-blow story of the attack on Ansar al-Islam's international terrorist training camp has never been told before. The most comprehensive account ever of the modern-day Special Forces in action, *Masters of Chaos* is filled with riveting, intimate detail in the words of a close-knit band of soldiers who have done it all.

First released in the Spring of 1999, *How People Learn* has been expanded to show how the theories and insights from the original book can translate into actions and practice, now making a real connection between classroom activities and

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learning behavior. This edition includes far-reaching suggestions for research that could increase the impact that classroom teaching has on actual learning. Like the original edition, this book offers exciting new research about the mind and the brain that provides answers to a number of compelling questions. When do infants begin to learn? How do experts learn and how is this different from non-experts? What can teachers and schools do—with curricula, classroom settings, and teaching methods—to help children learn most effectively? New evidence from many branches of science has significantly added to our understanding of what it means to know, from the neural processes that occur during learning to the influence of culture on what people see and absorb. *How People Learn* examines these findings and their implications for what we teach, how we teach it, and how we assess what our children learn. The book uses exemplary teaching to illustrate how approaches based on what we now know result in in-depth learning. This new knowledge calls into question concepts and practices firmly entrenched in our current education system. Topics include: How learning actually changes the physical structure of the brain. How existing knowledge affects what people notice and how they learn. What the thought processes of experts tell us about how to teach. The amazing learning potential of infants. The relationship of classroom learning and everyday settings of community and workplace. Learning needs and opportunities for teachers. A realistic look at the role of technology in education.

“A book about the complexities of combat that's just as applicable for dealing with the complexities of business and our personal lives.”—Kevin Sharer, chairman and CEO, Amgen As a commander of Delta Force—the most elite counter—terrorist organization in the world—Pete Blaber took part in some of the most dangerous, controversial, and

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significant military and political events of our time. Now he takes his intimate knowledge of warfare—and the heart, mind, and spirit it takes to win—and moves his focus from the combat zone to civilian life. In this book, you will learn the same lessons he learned, while experiencing what the life of a Delta Force Operator is like—from the extreme physical and psychological training to the darkest of shadow ops all around the world. From each mission, Pete Blaber has taken a life lesson back with him. You will learn these enlightening lessons as you gain insights into never-before-revealed missions executed around the globe. And when the smoke clears, you will emerge wiser, more capable, and better prepared to succeed in life than you ever thought possible. You're probably thinking this is just another typical study guide. Because we know your time is limited, we've created a product that isn't like most study guides. With Trivium Test Prep's unofficial AFOQT Study Guide 2020-2021: AFOQT Exam Prep and Practice Questions for the Air Force Officer Qualifying Test you'll benefit from a quick but total review of everything tested on the exam with real examples, graphics, and information. Imagine having your study materials on your phone or tablet! Trivium Test Prep's NEW AFOQT Study Guide 2020-2021 comes with FREE online resources, including: practice questions, online flashcards, study "cheat" sheets, and 35 tried and tested test tips. These easy to use materials give you that extra edge you need to pass the first time. USAF was not involved in the creation or production of this product, is not in any way affiliated with Trivium Test Prep, and does not sponsor or endorse this product. Trivium Test Prep's AFOQT Study Guide 2020-2021 offers: A full review of what you need to know for the Air Force Officer Qualifying Test Practice questions for you to practice and improve Test tips to help you score higher Trivium Test Prep's AFOQT Study Guide 2020-2021 covers: Verbal

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Analogies Arithmetic Reasoning Word Knowledge Math Knowledge Paragraph Comprehension Situational Judgement Self-Description Inventory Physical Science Table Reading Instrument Comprehension Block Counting Aviation Information ...and includes two FULL practice tests! About Trivium Test Prep Trivium Test Prep is an independent test prep study guide company that produces and prints all of our books right here in the USA. Our dedicated professionals know how people think and learn, and have created our test prep products based on what research has shown to be the fastest, easiest, and most effective way to prepare for the exam. Unlike other study guides that are stamped out in a generic fashion, our study materials are specifically tailored for your exact needs. We offer a comprehensive set of guides guaranteed to raise your score for exams from every step of your education; from high school, to college or the military, to graduate school. Let our study guides guide you along the path to the professional career of your dreams!

The Only Grammar Book You'll Ever Need is the ideal resource for everyone who wants to produce writing that is clear, concise, and grammatically excellent. Whether you're creating perfect professional documents, spectacular school papers, or effective personal letters, you'll find this handbook indispensable. From word choice to punctuation to organization, English teacher Susan Thurman guides you through getting your thoughts on paper with polish. Using dozens of examples, The Only Grammar Book You'll Ever Need provides guidelines for: Understanding the parts of speech and elements of a sentence Avoiding the most common grammar and punctuation mistakes Using correct punctuating in every sentence Writing clearly and directly Approaching writing projects, whether big or small Easy to follow and authoritative, The Only Grammar Book You'll Ever Need provides all the necessary tools to make you successful

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with every type of written expression.

The Fire And Life Safety Inspection Manual, Ninth Edition Is The Most Up-To-Date Inspection Reference Manual For Those Interested In Fire Protection, Fire Safety, And Life Safety Inspections. It Provides Step-By-Step Guidance Through The Complete Fire Inspection Process, With Special Emphasis On Life Safety Considerations. This Text Identifies Dangerous And Hazardous Conditions That Could Be Encountered In A Structure And Spells Out The Chief Areas The Inspector Should Be Focused On During An Inspection. Inspectors Should Use The Fire And Life Safety Inspection Manual, Ninth Edition To Identify Existing Deficiencies, Imminently Dangerous Conditions, Or A Fault In A Procedure Or Protocol That May Result In A Fire. Six New Chapters Have Been Added To Make Sure Fire Inspectors Have The Knowledge And Resources Available To Effectively Conduct All Types Of Fire Inspections. These New Chapters Include: • Chapter 5 Certification And Training For Inspectors • Chapter 6 Green Technologies And The Inspector • Chapter 24 Commissioning Process For Fire Protection Systems • Chapter 25 Accessibility Provisions • Chapter 26 Grass, Brush, And Forest Fire Hazards • Chapter 27 Tunnels More Than Three Hundred Codes And Standards Form The Basis For The Criteria, Recommendations, And Requirements That Are Found Throughout The Text. Early Chapters Provide Important Background Information, While The Second Half Presents Inspection Guidelines For Specific Fire Protection Systems And Occupancies That Are Based On The Life Safety Code?. This Text Is Packaged With An Access Code That Provides Free Access To Easy-To-Follow Checklists To Help You Remember And Record Every Important Detail. Whether You'Re Just Starting Your Career As A Fire Inspector Or Ready To Brush Up On The Basics, The Fire And Life Safety Inspection Manual, Ninth Edition Has The

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Reliable Inspection Advice You Need.

"This book narrows down the scope of data mining by adopting a heavily modeling-oriented perspective"--

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