The Code Book Science Of Secrecy From Ancient Egypt To Quantum Cryptography Simon Singh

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~~The Code Book Science Of~~
Imprinted beneath the bark of over 700 million acres of dead trees in Montana are the patterns of the ongoing environmental crisis. It ' s a crisis three artists address through sculptures, ...

~~Missoula Art Museum exhibit explores beetle art ' Below the Bark~~ '
SPONSORED POST] In this special guest feature, Rosaria Silipo, Ph.D., Principal Data Scientist at KNIME, discusses the difference between automated Machine Learning and low code tools for data science ...

~~Low Code Data Science is Not the Same as Automated Machine Learning~~
Netflix's horror series starring Penn Badgley revolves around a book-lover's obsessive behaviors. Here are all the literary references every season.

~~All of the hidden book references on Netflix ' s ' You~~ '
Lucy Calkins and Jennifer Serravallo are among those releasing updates that move away from unproven techniques like three-cueing.

Popular Literacy Materials Get ‘ Science of Reading ’ Overhaul. But Will Teaching Change?
Spend some time with Jim Martin and you learn to not interrupt him when he ’ s on a roll. “ Here ’ s the RNA coming along with the code it picked up from one gene, ” says Martin as he ...

North Carolina chemist wins award for book arguing science and God go hand-in-hand
It even won the Hugo Award, one of the most prestigious sci-fi prizes, for best series in 2019. It centers on a future version of humanity that has found its way into something called the Galactic ...

Why the best aliens are just a little bit human
AMERICAN EXPERIENCE has brought to life the incredible characters and epic stories that have shaped America ’ s past and present, and the work of historians and biographers is critical to telling those ...

American Experience: By The Books
HULL—Students in Sarah deVries ’ computer science classes in the Boyden-Hull School District aren ’ t merely staring at screens and learning to code.

Boyden-Hull gets computer science courses
The decline in church attendance in America is inextricably linked to the decline of marriage, according to a new book.

Can Our Nation's Churches Save Marriage—and the Family?
For her next adventure, the acclaimed science writer of 'Stiff' explores the puzzling and often hilarious conundrum of human-wildlife conflict in 'Fuzz: When Nature Breaks the Law.' ...

Mary Roach Investigates Science's Funniest, Strangest Corners
Aryan Khan, who has been remanded in the custody of the Narcotics Control Bureau (NCB) till October 7, has been provided with science books that he has asked for.

Aryan Khan Provided With Science Books In NCB Custody After He Asked For It
Going into graduate school, Victoria Muller Ewald said she never thought she could learn to code, let alone consider it would one day be integral to her research. Now, she ’ s involved in initiatives ...

UI neuroscientist empowers women to code
Right off the bat (get it?) you may be asking, why couldn't Marvel just use a vampire in their comic books - especially if they had done it before. I ...

~~How Marvel Comics fooled comic book censors by turning Vampires into Dinosaurs~~
During World War 2, the US military was trying to minimize losses of their bombers to enemy fire. They commissioned a study of their bombers and identified the areas where the bombers were sustaining ...

~~The Value of Traditional Statistics in a Big Data World~~
In 2012, an article in the Harvard Business Review named the role of data scientist the sexiest job of the 21st century. Data scientists are getting a lot of attention, and as a result, books about ...

~~Data Science Projects – Through the lens of a Data Scientist~~
I made a big life decision earlier this month, one that I have been agonizing over for years, maybe even longer. Well, maybe not "agonizing" per se, but this was ...

~~Perusing the titles at the library book sale~~
Scientists have sequenced the genome of the blue crab. The best way to understand an organism is to understand its genetic makeup, also known as its genome. Once the code is understood, it reveals ...

~~Scientists crack blue crab's genetic code~~
Hello, readers. American Masters is excited to announced our partnership with ALL ARTS to read Ursula K. Le Guin's genre-defining classic, The Left Hand of Darkness. As part of ALL ARTS' Ballerina ...

~~Read Ursula K. Le Guin's "The Left Hand of Darkness" as part of a special collaboration with ALL ARTS~~
According to TIOBE, Python has now overtaken C and Java to become the world's most popular programming language. The high-level language has been on the rise for years, and the fact that any language ...

"As gripping as a good thriller." --The Washington Post Unpack the science of secrecy and discover the methods behind cryptography--the encoding and decoding of information--in this clear and easy-to-understand young adult adaptation of the national bestseller that's perfect for this age of WikiLeaks, the Sony hack, and other events that reveal the extent to which our technology is never quite as secure as we want to believe. Coders and codebreakers alike will be fascinated by history's most mesmerizing stories of intrigue and cunning--from Julius Caesar and his Caeser cipher to the Allies' use of the Enigma machine to decode German messages during World War II. Accessible, compelling, and timely, The Code Book is sure to make readers see the past--and the future--in a whole new way. "Singh's power of explaining complex ideas is as dazzling as ever." --The

Guardian

Includes a history of how codes have affected the world, from the World Wars to the death of Mary, Queen of Scots, and also looks at what the future holds for the field of cryptography.

It's known as the science of secrecy. Cryptography: the encoding and decoding of private information. And it is history's most fascinating story of intrigue and cunning. The battle between codemakers and codebreakers has been going on for centuries: from Julius Caesar and his Caesar cipher to the codebreaking achievements of the 10th-century Arabs; from the code used by Mary Queen of Scots in an attempt to dethrone Elizabeth I to Sir Francis Walsingham's decipherment of that code, which led to Mary's execution for treason; from the Germans' use of the Enigma machine for automatic encryption in the Second World War to Alan Turing's efforts to infiltrate Enigma, which contributed to the Allied victory. And the battle rages on. How private are your e-mail communications? How secure is sending your credit card information over the internet? And how much secrecy will the government tolerate? Simon Singh follows the evolution of secret writing with a clarity that lets the reader enjoy the captivating story w.

Provides a review of cryptography, its evolution over time, and its purpose throughout history from the era of Julius Caesar to the modern day.

A TV tie-in edition of The Code Book filmed as a prime-time five-part Channel 4 series on the history of codes and code-breaking and presented by the author. This book, which accompanies the major Channel 4 series, brings to life the hidden history of codes and code breaking. Since the birth of writing, there has also been the need for secrecy. The story of codes is the story of the brilliant men and women who used mathematics, linguistics, machines, computers, gut instinct, logic and detective work to encrypt and break these secrect messages and the effect their work has had on history.

This is a detailed history of one of the most important and dramatic episodes in modern science, recounted from the novel vantage point of the dawn of the information age and its impact on representations of nature, heredity, and society. Drawing on archives, published sources, and interviews, the author situates work on the genetic code (1953-70) within the history of life science, the rise of communication technosciences (cybernetics, information theory, and computers), the intersection of molecular biology with cryptanalysis and linguistics, and the social history of postwar Europe and the United States. Kay draws out the historical specificity in the process by which the central biological problem of DNA-based protein synthesis came to be metaphorically represented as an information code and a writing technology and consequently as a book of life. This molecular writing and reading is part of the cultural production of the Nuclear Age, its power amplified by the centuries-old theistic resonance of the book of life metaphor. Yet, as the author points out, these are just metaphors: analogies, not ontologies. Necessary and productive as they have been, they have their epistemological limitations. Deploying analyses of

language, cryptology, and information theory, the author persuasively argues that, technically speaking, the genetic code is not a code, DNA is not a language, and the genome is not an information system (objections voiced by experts as early as the 1950s). Thus her historical reconstruction and analyses also serve as a critique of the new genomic biopower. Genomic textuality has become a fact of life, a metaphor literalized, she claims, as human genome projects promise new levels of control over life through the meta-level of information: control of the word (the DNA sequences) and its editing and rewriting. But the author shows how the humbling limits of these scriptural metaphors also pose a challenge to the textual and material mastery of the genomic book of life.

In Life and Work, You Can ' t Fake It to Make It. The Authenticity Code™ combines the best of a page-turner parable and a practical tool business book to deliver encouragement and proven tools for cracking the code to becoming a more authentic professional or leader. When you become more authentic, you do what you came here to do and be who you came here to be. You communicate more effectively, and the success you desire in your life and career becomes achievable. Dr. Sharon teaches in a fun, engaging, and honest parable style, and at the end of each chapter, you apply her proven practical tools to your own life and career. The effectiveness of these tools is proven from the over 20 years that Dr. Sharon ' s company, Inside-Out Learning, has been teaching them to their Fortune 500, mid-, and small-size business clients. Results across thousands of clients include getting promoted, landing a dream job, significantly increasing sales and revenue, developing confidence and loyalty, greatly enhancing professional, leadership, and communication skills, and improving your personal life. The promotion rate for individuals is 50-80% within a year of completing one of Inside Out Learning ' s 3- to 5-day programs. Now you have the opportunity to achieve these exceptional results in an easy-to-read book format. The Authenticity Code™ tells the story of a fictional corporate vice president choosing a sales director from two talented prot é g é s. After they present their cases, he realizes that neither of them is impressive enough to qualify. Instead of giving up, the leader sets out to teach his candidates what they need to know via The Authenticity Code™ Program. Like the candidates in the book, you, the reader, will learn to look within yourself and decide who you truly are and what you really want from life and work—and how to go about getting it. Now Dr. Sharon encourages you to enjoy the parable, apply the tools, develop your own authentic brand statement, and achieve the success you desire.

Anyone Can Code: The Art and Science of Logical Creativity introduces computer programming as a way of problem-solving through logical thinking. It uses the notion of modularization as a central lens through which we can make sense of many software concepts. This book takes the reader through fundamental concepts in programming by illustrating them in three different and distinct languages: C/C++, Python, and Javascript. Key features: Focuses on problem-solving and algorithmic thinking instead of programming functions, syntax, and libraries. Includes engaging examples, including video games and visual effects. Provides exercises and reflective questions. This book gives beginner and intermediate learners a strong understanding of what they are doing so that they can do it better and with any other tool or language that they may end up using later. Sample code is available on the author ' s website.

The bestselling author of Leonardo da Vinci and Steve Jobs returns with a gripping account of how Nobel Prize winner Jennifer Doudna and her colleagues launched a revolution that will allow us to cure diseases, fend off viruses, and have healthier babies. When Jennifer Doudna was in sixth grade, she came home one day to find that her dad had left a paperback titled The Double Helix on her bed. She put it aside, thinking it was one of those detective tales she loved. When she read it on a rainy Saturday, she discovered she was right, in a way. As she sped through the pages, she became enthralled by the intense drama behind the competition to discover the code of life. Even though her high school counselor told her girls didn ' t become scientists, she decided she would. Driven by a passion to understand how nature works and to turn discoveries into inventions, she would help to make what the book ' s author, James Watson, told her was the most important biological advance since his co-discovery of the structure of DNA. She and her collaborators turned a curiosity of nature into an invention that will transform the human race: an easy-to-use tool that can edit DNA. Known as CRISPR, it opened a brave new world of medical miracles and moral questions. The development of CRISPR and the race to create vaccines for coronavirus will hasten our transition to the next great innovation revolution. The past half-century has been a digital age, based on the microchip, computer, and internet. Now we are entering a life-science revolution. Children who study digital coding will be joined by those who study genetic code. Should we use our new evolution-hacking powers to make us less susceptible to viruses? What a wonderful boon that would be! And what about preventing depression? Hmmm…Should we allow parents, if they can afford it, to enhance the height or muscles or IQ of their kids? After helping to discover CRISPR, Doudna became a leader in wrestling with these moral issues and, with her collaborator Emmanuelle Charpentier, won the Nobel Prize in 2020. Her story is a thrilling detective tale that involves the most profound wonders of nature, from the origins of life to the future of our species.

How can one be assured that computer codes that solve differential equations are correct? Standard practice using benchmark testing no longer provides full coverage because today's production codes solve more complex equations using more powerful algorithms. By verifying the order-of-accuracy of the numerical algorithm implemented in the code, one can detect most any coding mistake that would prevent correct solutions from being computed. Verification of Computer Codes in Computational Science and Engineering sets forth a powerful alternative called OVMSP: Order-Verification via the Manufactured Solution Procedure. This procedure has two primary components: using the Method of Manufactured Exact Solutions to create analytic solutions to the fully-general differential equations solved by the code and using grid convergence studies to confirm the order-of-accuracy. The authors present a step-by-step procedural guide to OVMSP implementation and demonstrate its effectiveness. Properly implemented, OVMSP offers an exciting opportunity to identify virtually all coding 'bugs' that prevent correct solution of the governing partial differential equations. Verification of Computer Codes in Computational Science and Engineering shows you how this can be done. The treatment is clear, concise, and suitable both for developers of production quality simulation software and as a reference for computational science and engineering professionals.