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**Genius/GZA of the Wu-Tang Clan -
Weapons of Math Destruction**

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Originally published in hardcover in 2014 by G.P. Putnam's Sons.

Algorithms of Oppression

"Interior designer Nina Freudenberger, New Yorker writer Sadie Stein, and Architectural Digest photographer Shade Degges give readers a peek at the private libraries and bookshelves of passionate readers all over the world, including Larry McMurtry, Silvia Whitman of Shakespeare and Co., Gay and Nan Talese, and Emma Straub. Throughout, gorgeous photographs of rooms with rare collections, floor-to-ceiling shelves, and stacks upon stacks of books inspire readers to live better with their own collections"--Amazon.com.

The Black Box Society

"An entertaining romp that tells us where and why the tech industry, once America's darling, went wrong, and what it might do to recover its good graces."

—Tim Wu, author of *The Master Switch* Buying groceries, tracking our health, finding a date: whatever we want to do, odds are that we can now do it online. But few of us realize just how many oversights, biases, and downright ethical nightmares are baked inside the tech products we use every day. It's time we change that. In *Technically Wrong*, Sara Wachter-Boettcher demystifies the tech industry, leaving those of us on the other side of the screen better prepared to make informed choices about the services we use—and to demand more from the

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companies behind them. A Wired Top Tech Book of the Year A Fast Company Best Business and Leadership Book of the Year

Weapons of Math Destruction

From a cutting-edge cultural commentator and documentary filmmaker, a bold and brilliant challenge to cherished notions of the Internet as the great democratizing force of our age. The Internet has been hailed as a place where all can be heard and everyone can participate equally. But how true is this claim? In a seminal dismantling of techno-utopian visions, *The People's Platform* argues that for all that we "tweet" and "like" and "share," the Internet in fact reflects and amplifies real-world inequities at least as much as it ameliorates them. Online, just as off-line, attention and influence largely accrue to those who already have plenty of both. What we have seen in the virtual world so far, Astra Taylor says, has been not a revolution but a rearrangement. Although Silicon Valley tycoons have eclipsed Hollywood moguls, a handful of giants like Amazon, Apple, Google and Facebook still dominate our lives. And the worst habits of the old media model--the pressure to be quick and sensational, to seek easy celebrity, to appeal to the broadest possible public--have proliferated online, where every click can be measured and where "aggregating" the work of others is the surest way to attract eyeballs and ad revenue. In a world where culture is "free," creative work has diminishing value, and advertising fuels the system, the new order looks suspiciously just like the

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old one. We can do better, Taylor insists. The online world does offer an unprecedented opportunity, but a democratic culture that supports diverse voices, work of lasting value, and equitable business practices will not appear as a consequence of technology alone. If we want the Internet to truly be a people's platform, we will have to make it so.

Adrian Mole and The Weapons of Mass Destruction

Adrian Mole and The Weapons of Mass Destruction is the sixth book in Sue Townsend's brilliantly funny Adrian Mole series. Wednesday April 2nd My birthday. I am thirty-five today. I am officially middle-aged. It is all downhill from now. A pathetic slide towards gum disease, wheelchair ramps and death. Adrian Mole is middle-aged but still scribbling. Working as a bookseller and living in Leicester's Rat Wharf; finding time to write letters of advice to Tim Henman and Tony Blair; locked in mortal combat with a vicious swan called Gielgud; measuring his expanding bald spot; and trying to win-over the voluptuous Daisy . . . Adrian yearns for a better more meaningful world. But he's not ready to surrender his pen yet Bestselling author Sue Townsend has been Britain's favourite comic writer for over three decades. 'Hilarious. Deft, gleeful mockery impales modish fads, from home make-overs to new-age crazes, while fiercer irony is trained on the country's involvement with Iraq' Sunday Times 'Richly comic stuffed full of humour, tragedy, vanity, pathos and, very occasionally, wisdom' Guardian 'Completely hilarious, laugh-out-

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loud, a joy' Daily Mirror Sue Townsend is Britain's favourite comic author. Her hugely successful novels include eight Adrian Mole books, The Public Confessions of a Middle-Aged Woman (Aged 55¾), Number Ten, Ghost Children, The Queen and I, Queen Camilla and The Woman Who Went to Bed For a Year, all of which are highly acclaimed bestsellers. She has also written numerous well-received plays. She lives in Leicester, where she was born and grew up.

Things to Make and Do in the Fourth Dimension

“Delightful . . . easily digestible chapters include plenty of helpful examples and illustrations. You'll never forget the Pythagorean theorem again!”—Scientific American Many people take math in high school and promptly forget much of it. But math plays a part in all of our lives all of the time, whether we know it or not. In *The Joy of x*, Steven Strogatz expands on his hit New York Times series to explain the big ideas of math gently and clearly, with wit, insight, and brilliant illustrations. Whether he is illuminating how often you should flip your mattress to get the maximum lifespan from it, explaining just how Google searches the internet, or determining how many people you should date before settling down, Strogatz shows how math connects to every aspect of life. Discussing pop culture, medicine, law, philosophy, art, and business, Strogatz is the math teacher you wish you'd had. Whether you aced integral calculus or aren't sure what an integer is, you'll find profound wisdom and persistent delight in

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The Joy of x.

Weapons of Mass Destruction

WINNER: The 2018 McGannon Center Book Prize and shortlisted for the Goddard Riverside Stephan Russo Book Prize for Social Justice The New York Times Book Review: "Riveting." Naomi Klein: "This book is downright scary." Ethan Zuckerman, MIT: "Should be required reading." Dorothy Roberts, author of Killing the Black Body: "A must-read." Astra Taylor, author of The People's Platform: "The single most important book about technology you will read this year." Cory Doctorow: "Indispensable." A powerful investigative look at data-based discrimination—and how technology affects civil and human rights and economic equity The State of Indiana denies one million applications for healthcare, foodstamps and cash benefits in three years—because a new computer system interprets any mistake as “failure to cooperate.” In Los Angeles, an algorithm calculates the comparative vulnerability of tens of thousands of homeless people in order to prioritize them for an inadequate pool of housing resources. In Pittsburgh, a child welfare agency uses a statistical model to try to predict which children might be future victims of abuse or neglect. Since the dawn of the digital age, decision-making in finance, employment, politics, health and human services has undergone revolutionary change. Today, automated systems—rather than humans—control which neighborhoods get policed, which families attain needed resources, and who is investigated for fraud.

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While we all live under this new regime of data, the most invasive and punitive systems are aimed at the poor. In *Automating Inequality*, Virginia Eubanks systematically investigates the impacts of data mining, policy algorithms, and predictive risk models on poor and working-class people in America. The book is full of heart-wrenching and eye-opening stories, from a woman in Indiana whose benefits are literally cut off as she lays dying to a family in Pennsylvania in daily fear of losing their daughter because they fit a certain statistical profile. The U.S. has always used its most cutting-edge science and technology to contain, investigate, discipline and punish the destitute. Like the county poorhouse and scientific charity before them, digital tracking and automated decision-making hide poverty from the middle-class public and give the nation the ethical distance it needs to make inhumane choices: which families get food and which starve, who has housing and who remains homeless, and which families are broken up by the state. In the process, they weaken democracy and betray our most cherished national values. This deeply researched and passionate book could not be more timely.

Technically Wrong: Sexist Apps, Biased Algorithms, and Other Threats of Toxic Tech

"New Dark Age is among the most unsettling and illuminating books I've read about the Internet, which is to say that it is among the most unsettling and illuminating books I've read about contemporary life."

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- New Yorker As the world around us increases in technological complexity, our understanding of it diminishes. Underlying this trend is a single idea: the belief that our existence is understandable through computation, and more data is enough to help us build a better world. In reality, we are lost in a sea of information, increasingly divided by fundamentalism, simplistic narratives, conspiracy theories, and post-factual politics. Meanwhile, those in power use our lack of understanding to further their own interests. Despite the apparent accessibility of information, we're living in a new Dark Age. From rogue financial systems to shopping algorithms, from artificial intelligence to state secrecy, we no longer understand how our world is governed or presented to us. The media is filled with unverifiable speculation, much of it generated by anonymous software, while companies dominate their employees through surveillance and the threat of automation. In his brilliant new work, leading artist and writer James Bridle surveys the history of art, technology, and information systems, and reveals the dark clouds that gather over our dreams of the digital sublime.

Exam Prep for: Weapons of Math Destruction

'One of the best books yet written on data and algorithms. . .deserves a place on the bestseller charts.' (The Times) You are accused of a crime. Who would you rather determined your fate - a human or an algorithm? An algorithm is more consistent and less prone to error of judgement. Yet a human can

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look you in the eye before passing sentence.

Welcome to the age of the algorithm, the story of a not-too-distant future where machines rule supreme, making important decisions - in healthcare, transport, finance, security, what we watch, where we go even who we send to prison. So how much should we rely on them? What kind of future do we want? Hannah Fry takes us on a tour of the good, the bad and the downright ugly of the algorithms that surround us. In Hello World she lifts the lid on their inner workings, demonstrates their power, exposes their limitations, and examines whether they really are an improvement on the humans they are replacing. A BBC RADIO 4- BOOK OF THE WEEK SHORTLISTED FOR THE 2018 BAILLIE GIFFORD PRIZE AND 2018 ROYAL SOCIETY SCIENCE BOOK PRIZE

Finance in America

The funny math notebook Weapons of Math Destruction is a very popular, beautiful gift for math teachers and math fans who can do more with numbers and algebra than the majority. A funny math notebook in 6x9 format, which is also great for notes and as a todo planner or gratitude diary. A great gift not only for the favorite math teacher. This notebook and journal features the following: 120 dot grid pages in 6x9 format with funny slogan, it is a great gift for nerds and geeks, children and teenagers and especially for math teachers. If your math teacher has a birthday, this is the perfect gift! Your teacher is retiring? You have the right gift! Examples of use: Diary exercise book homework book sketchbook

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notebook Schedule planner for exams, school performances nutrition diary vocabulary book fitness planner holiday diary holiday planner weekly planner agenda health diary homework book sketchbook homework book gratitude diary success diary pause helper motivation diary

Black Victims of Violent Crime

This book approaches big data, artificial intelligence, machine learning, and business intelligence through the lens of Data Science. We have grown accustomed to seeing these terms mentioned time and time again in the mainstream media. However, our understanding of what they actually mean often remains limited. This book provides a general overview of the terms and approaches used broadly in data science, and provides detailed information on the underlying theories, models, and application scenarios. Divided into three main parts, it addresses what data science is; how and where it is used; and how it can be implemented using modern open source software. The book offers an essential guide to modern data science for all students, practitioners, developers and managers seeking a deeper understanding of how various aspects of data science work, and of how they can be employed to gain a competitive advantage.

Bibliostyle

"Using the mathematician's method of analyzing life and exposing the hard-won insights of the academic

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community to the layman, minus the jargon Ellenberg pulls from history as well as from the latest theoretical developments to provide those not trained in math with the knowledge they need"--

The Nordic Theory of Everything

Crucial information on nuclear, chemical, and biological weapons From the diseased animal carcass hurled over the wall of a besieged castle to the nuclear suitcase bomb carried by a clandestine operative, the threat of unconventional weapons has always been a feature of warfare. Today's danger comes mainly from the potential use of nuclear, biological, and chemical (NBC) weapons of mass destruction (WMD) by international terrorists or rogue states. False alarms and misinformation about these weapons have abounded in the jittery post-9/11 atmosphere. To understand and deal with the actual threat posed requires basing response plans, policy, and reporting on actual facts. Introduction to Weapons of Mass Destruction separates fact from fiction about NBC weaponry by providing clear, technically precise information. For each family of weapon, coverage in this handbook includes: * History and background information * Agent types and delivery mechanisms * Effects of exposure * Protection * Safe storage and handling * Decontamination * Medical treatments Drawing from a broad array of military, scientific, and safety resources, this text offers both accessibility to the general public and accuracy and depth for professional emergency responders. Additional

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resources include a bibliography of references and a list of addresses and telephone numbers of federal and military agencies and professional organizations of interest. With full coverage of WMDs, from high-tech, genetically modified organisms to rudimentary radiological "dirty bombs," Introduction to Weapons of Mass Destruction is an essential reference for understanding and responding to these dangerous warfare agents.

Democracy Against Domination

Foreword by Steven Pinker Blending the informed analysis of *The Signal and the Noise* with the instructive iconoclasm of *Think Like a Freak*, a fascinating, illuminating, and witty look at what the vast amounts of information now instantly available to us reveals about ourselves and our world—provided we ask the right questions. By the end of an average day in the early twenty-first century, human beings searching the internet will amass eight trillion gigabytes of data. This staggering amount of information—unprecedented in history—can tell us a great deal about who we are—the fears, desires, and behaviors that drive us, and the conscious and unconscious decisions we make. From the profound to the mundane, we can gain astonishing knowledge about the human psyche that less than twenty years ago, seemed unfathomable. *Everybody Lies* offers fascinating, surprising, and sometimes laugh-out-loud insights into everything from economics to ethics to sports to race to sex, gender and more, all drawn from the world of big data. What percentage of white

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voters didn't vote for Barack Obama because he's black? Does where you go to school effect how successful you are in life? Do parents secretly favor boy children over girls? Do violent films affect the crime rate? Can you beat the stock market? How regularly do we lie about our sex lives and who's more self-conscious about sex, men or women? Investigating these questions and a host of others, Seth Stephens-Davidowitz offers revelations that can help us understand ourselves and our lives better. Drawing on studies and experiments on how we really live and think, he demonstrates in fascinating and often funny ways the extent to which all the world is indeed a lab. With conclusions ranging from strange-but-true to thought-provoking to disturbing, he explores the power of this digital truth serum and its deeper potential—revealing biases deeply embedded within us, information we can use to change our culture, and the questions we're afraid to ask that might be essential to our health—both emotional and physical. All of us are touched by big data everyday, and its influence is multiplying. *Everybody Lies* challenges us to think differently about how we see it and the world.

Demagoguery and Democracy

If machine learning transforms the nature of knowledge, does it also transform the practice of critical thought? Machine learning—programming computers to learn from data—has spread across scientific disciplines, media, entertainment, and government. Medical research, autonomous vehicles,

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credit transaction processing, computer gaming, recommendation systems, finance, surveillance, and robotics use machine learning. Machine learning devices (sometimes understood as scientific models, sometimes as operational algorithms) anchor the field of data science. They have also become mundane mechanisms deeply embedded in a variety of systems and gadgets. In contexts from the everyday to the esoteric, machine learning is said to transform the nature of knowledge. In this book, Adrian Mackenzie investigates whether machine learning also transforms the practice of critical thinking. Mackenzie focuses on machine learners—either humans and machines or human-machine relations—situated among settings, data, and devices. The settings range from fMRI to Facebook; the data anything from cat images to DNA sequences; the devices include neural networks, support vector machines, and decision trees. He examines specific learning algorithms—writing code and writing about code—and develops an archaeology of operations that, following Foucault, views machine learning as a form of knowledge production and a strategy of power. Exploring layers of abstraction, data infrastructures, coding practices, diagrams, mathematical formalisms, and the social organization of machine learning, Mackenzie traces the mostly invisible architecture of one of the central zones of contemporary technological cultures. Mackenzie's account of machine learning locates places in which a sense of agency can take root. His archaeology of the operational formation of machine learning does not unearth the footprint of a strategic monolith but reveals the local tributaries of force that feed into the

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generalization and plurality of the field.

Statistics Done Wrong

"This book describes several weapons of mass destruction and examines the extent and duration of environmental damage to be expected from them"--Jacket.

How Not to be Wrong

A Finnish journalist, now a naturalized American citizen, asks Americans to draw on elements of the Nordic way of life to nurture a fairer, happier, more secure, and less stressful society for themselves and their children. Moving to America in 2008, Finnish journalist Anu Partanen quickly went from confident, successful professional to wary, self-doubting mess. She found that navigating the basics of everyday life—from buying a cell phone and filing taxes to education and childcare—was much more complicated and stressful than anything she encountered in her homeland. At first, she attributed her crippling anxiety to the difficulty of adapting to a freewheeling new culture. But as she got to know Americans better, she discovered they shared her deep apprehension. To understand why life is so different in the U.S. and Finland, Partanen began to look closely at both. In *The Nordic Theory of Everything*, Partanen compares and contrasts life in the United States with life in the Nordic region, focusing on four key relationships—parents and children, men and women, employees and employers,

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and government and citizens. She debunks criticism that Nordic countries are socialist “nanny states,” revealing instead that it is we Americans who are far more enmeshed in unhealthy dependencies than we realize. As Partanen explains step by step, the Nordic approach allows citizens to enjoy more individual freedom and independence than we do. Partanen wants to open Americans’ eyes to how much better things can be—to show her beloved new country what it can learn from her homeland to reinvigorate and fulfill the promise of the American dream—to provide the opportunity to live a healthy, safe, economically secure, upwardly mobile life for everyone. Offering insights, advice, and solutions, *The Nordic Theory of Everything* makes a convincing argument that we can rebuild our society, rekindle our optimism, and restore true freedom to our relationships and lives.

Weapons of Math Destruction

In the American Mathematical Society's first-ever book for kids (and kids at heart), mathematician and author Richard Evan Schwartz leads math lovers of all ages on an innovative and strikingly illustrated journey through the infinite number system. By means of engaging, imaginative visuals and endearing narration, Schwartz manages the monumental task of presenting the complex concept of Big Numbers in fresh and relatable ways. The book begins with small, easily observable numbers before building up to truly gigantic ones, like a nonillion, a tredecillion, a googol, and even ones too huge for names! Any person, regardless of age, can benefit

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from reading this book. Readers will find themselves returning to its pages for a very long time, perpetually learning from and growing with the narrative as their knowledge deepens. Really Big Numbers is a wonderful enrichment for any math education program and is enthusiastically recommended to every teacher, parent and grandparent, student, child, or other individual interested in exploring the vast universe of numbers.

Weapons of Mass Destruction and the Environment

This is a print on demand edition of a hard to find publication. During the 5-year period from 2001 to 2005, comparative non-fatal violent victimizations showed: Black males were more vulnerable to violent victimization than black females; Younger blacks were generally more likely than older blacks to be victims of violence; Blacks in households with lower annual incomes were at a greater risk of violence than those in households with higher annual incomes; Blacks living in urban areas were more likely than those in suburban or rural areas to be victims of violence. Black victims of homicide were most likely to be male and between ages 17 and 29. Homicides against blacks were more likely than those against whites to occur in highly populated areas, including cities and suburbs. Charts and tables.

Hand to Mouth

In 2008, the collapse of the US financial system

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plunged the economy into the worst economic downturn since the Great Depression. In its aftermath, the financial crisis pushed to the forefront fundamental moral and institutional questions about how we govern the modern economy. What are the values that economic policy ought to prioritize? What institutions do we trust to govern complex economic dynamics? Much of popular and academic debate revolves around two competing approaches to these fundamental questions: laissez-faire defenses of self-correcting and welfare-enhancing markets on the one hand, and managerialist turns to the role of insulated, expert regulation in mitigating risks and promoting growth on the other. In *Democracy Against Domination*, K. Sabeel Rahman offers an alternative vision for how we should govern the modern economy in a democratic society. Drawing on a rich tradition of economic reform rooted in the thought and reform politics of early twentieth century progressives like John Dewey and Louis Brandeis, Rahman argues that the fundamental moral challenge of economic governance today is two-fold: first, to counteract the threats of economic domination whether in the form of corporate power or inequitable markets; and second, to do so by expanding the capacity of citizens themselves to exercise real political power in economic policymaking. This normative framework in turn suggests a very different way of understanding and addressing major economic governance issues of the post-crisis era, from the challenge of too-big-to-fail financial firms, to the dangers of regulatory capture and regulatory reform. Synthesizing a range of insights from history to political theory to public policy, *Democracy Against Domination* offers an

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exciting reinterpretation of progressive economic thought; a fresh normative approach to democratic theory; and an urgent hope for realizing a more equitable and democratically accountable economy through practical reforms in our policies and regulatory institutions.

Introduction to Weapons of Mass Destruction

Now that people are aware that data can make the difference in an election or a business model, data science as an occupation is gaining ground. But how can you get started working in a wide-ranging, interdisciplinary field that's so clouded in hype? This insightful book, based on Columbia University's Introduction to Data Science class, tells you what you need to know. In many of these chapter-long lectures, data scientists from companies such as Google, Microsoft, and eBay share new algorithms, methods, and models by presenting case studies and the code they use. If you're familiar with linear algebra, probability, and statistics, and have programming experience, this book is an ideal introduction to data science. Topics include: Statistical inference, exploratory data analysis, and the data science process Algorithms Spam filters, Naive Bayes, and data wrangling Logistic regression Financial modeling Recommendation engines and causality Data visualization Social networks and data journalism Data engineering, MapReduce, Pregel, and Hadoop Doing Data Science is collaboration between course instructor Rachel Schutt, Senior VP of Data Science at

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News Corp, and data science consultant Cathy O'Neil, a senior data scientist at Johnson Research Labs, who attended and blogged about the course.

Quantum Theory, Groups and Representations

Every day, corporations are connecting the dots about our personal behavior—silently scrutinizing clues left behind by our work habits and Internet use. But who connects the dots about what firms are doing with all this information? Frank Pasquale exposes how powerful interests abuse secrecy for profit and explains ways to rein them in.

The Ethical Algorithm

The transformation of schooling from a twelve-year jail sentence to freedom to learn. John Taylor Gatto's *Weapons of Mass Instruction*, now available in paperback, focuses on mechanisms of traditional education which cripple imagination, discourage critical thinking, and create a false view of learning as a byproduct of rote-memorization drills. Gatto's earlier book, *Dumbing Us Down*, introduced the now-famous expression of the title into the common vernacular. *Weapons of Mass Instruction* adds another chilling metaphor to the brief against conventional schooling. Gatto demonstrates that the harm school inflicts is rational and deliberate. The real function of pedagogy, he argues, is to render the common population manageable. To that end, young people must be conditioned to rely upon experts, to remain

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divided from natural alliances and to accept disconnections from their own lived experiences. They must at all costs be discouraged from developing self-reliance and independence. Escaping this trap requires a strategy Gatto calls "open source learning" which imposes no artificial divisions between learning and life. Through this alternative approach our children can avoid being indoctrinated-only then can they achieve self-knowledge, good judgment, and courage.

Weapons of Math Destruction

Who Owns the Future?

Undated Planner - Weekly & Monthly No Year Pocket Calendar Interior Details: Undated yearly overview
Undated monthly overviews with ruled notes section, two pages per month
Undated weekly overviews for your daily schedule with ruled notes and to-do lists
One page per week 12 times: 1 monthly overview + 5 weeks 12 months on 100 bright white pages + 20 blank lined pages 6x9 dimensions, portable size (bag, school, home, work, desc,) High quality glossy softbound cover designed with love Makes an ideal present for any gift giving occasion Perfect gift idea for: birthdays, christmas, thanksgiving, family & friends, back to school, notebook & planner lovers, teachers, co-workers, boss gift,

The Master Algorithm

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A book from the stand-up mathematician that makes math fun again! Math is boring, says the mathematician and comedian Matt Parker. Part of the problem may be the way the subject is taught, but it's also true that we all, to a greater or lesser extent, find math difficult and counterintuitive. This counterintuitiveness is actually part of the point, argues Parker: the extraordinary thing about math is that it allows us to access logic and ideas beyond what our brains can instinctively do—through its logical tools we are able to reach beyond our innate abilities and grasp more and more abstract concepts. In the absorbing and exhilarating *Things to Make and Do in the Fourth Dimension*, Parker sets out to convince his readers to revisit the very math that put them off the subject as fourteen-year-olds. Starting with the foundations of math familiar from school (numbers, geometry, and algebra), he reveals how it is possible to climb all the way up to the topology and to four-dimensional shapes, and from there to infinity—and slightly beyond. Both playful and sophisticated, *Things to Make and Do in the Fourth Dimension* is filled with captivating games and puzzles, a buffet of optional hands-on activities that entices us to take pleasure in math that is normally only available to those studying at a university level. *Things to Make and Do in the Fourth Dimension* invites us to re-learn much of what we missed in school and, this time, to be utterly enthralled by it.

What Algorithms Want

The economic crisis of 2008 led to an unprecedented

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focus on the world of high finance—and revealed it to be far more arcane and influential than most people could ever have imagined. Any hope of avoiding future crises, it's clear, rest on understanding finance itself. To understand finance, however, we have to learn its history, and this book fills that need. Kevin R. Brine, an industry veteran, and Mary Poovey, an acclaimed historian, show that finance as we know it today emerged gradually in the late nineteenth century and only coalesced after World War II, becoming ever more complicated—and ever more central to the American economy. The authors explain the models, regulations, and institutions at the heart of modern finance and uncover the complex and sometimes surprising origins of its critical features, such as corporate accounting standards, the Federal Reserve System, risk management practices, and American Keynesian and New Classic monetary economics. This book sees finance through its highs and lows, from pre-Depression to post-Recession, exploring the myriad ways in which the practices of finance and the realities of the economy influenced one another through the years. A masterwork of collaboration, *Finance in America* lays bare the theories and practices that constitute finance, opening up the discussion of its role and risks to a broad range of scholars and citizens.

Weapons of Mass Instruction

A clear-eyed guide to demagoguery—and how we can defeat it What is demagoguery? Some demagogues are easy to spot: They rise to power through

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pandering, charisma, and prejudice. But, as professor Patricia Roberts-Miller explains, a demagogue is anyone who reduces all questions to us vs. them. Why is it dangerous? Demagoguery is democracy's greatest threat. It erodes rational debate, so that intelligent policymaking grinds to a halt. The idea that we never fall for it—that all the blame lies with them—is equally dangerous. How can we stop it? Demagogues follow predictable patterns in what they say and do to gain power. The key to resisting demagoguery is to name it when you see it—and to know where it leads.

Really Big Numbers

Longlisted for the National Book Award New York Times Bestseller A former Wall Street quant sounds an alarm on the mathematical models that pervade modern life — and threaten to rip apart our social fabric We live in the age of the algorithm. Increasingly, the decisions that affect our lives—where we go to school, whether we get a car loan, how much we pay for health insurance—are being made not by humans, but by mathematical models. In theory, this should lead to greater fairness: Everyone is judged according to the same rules, and bias is eliminated. But as Cathy O'Neil reveals in this urgent and necessary book, the opposite is true. The models being used today are opaque, unregulated, and uncontestable, even when they're wrong. Most troubling, they reinforce discrimination: If a poor student can't get a loan because a lending model deems him too risky (by virtue of his zip code), he's

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then cut off from the kind of education that could pull him out of poverty, and a vicious spiral ensues. Models are propping up the lucky and punishing the downtrodden, creating a “toxic cocktail for democracy.” Welcome to the dark side of Big Data. Tracing the arc of a person’s life, O’Neil exposes the black box models that shape our future, both as individuals and as a society. These “weapons of math destruction” score teachers and students, sort résumés, grant (or deny) loans, evaluate workers, target voters, set parole, and monitor our health. O’Neil calls on modelers to take more responsibility for their algorithms and on policy makers to regulate their use. But in the end, it’s up to us to become more savvy about the models that govern our lives. This important book empowers us to ask the tough questions, uncover the truth, and demand change. — Longlist for National Book Award (Non-Fiction) — Goodreads, semi-finalist for the 2016 Goodreads Choice Awards (Science and Technology) — Kirkus, Best Books of 2016 — New York Times, 100 Notable Books of 2016 (Non-Fiction) — The Guardian, Best Books of 2016 — WBUR's "On Point," Best Books of 2016: Staff Picks — Boston Globe, Best Books of 2016, Non-Fiction

Mini Weapons of Mass Destruction 2

The gap between theoretical ideas and messy reality, as seen in Neal Stephenson, Adam Smith, and Star Trek. We depend on—we believe in—algorithms to help us get a ride, choose which book to buy, execute a mathematical proof. It's as if we think of code as a

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magic spell, an incantation to reveal what we need to know and even what we want. Humans have always believed that certain invocations—the marriage vow, the shaman's curse—do not merely describe the world but make it. Computation casts a cultural shadow that is shaped by this long tradition of magical thinking. In this book, Ed Finn considers how the algorithm—in practical terms, “a method for solving a problem”—has its roots not only in mathematical logic but also in cybernetics, philosophy, and magical thinking. Finn argues that the algorithm deploys concepts from the idealized space of computation in a messy reality, with unpredictable and sometimes fascinating results. Drawing on sources that range from Neal Stephenson's *Snow Crash* to Diderot's *Encyclopédie*, from Adam Smith to the Star Trek computer, Finn explores the gap between theoretical ideas and pragmatic instructions. He examines the development of intelligent assistants like Siri, the rise of algorithmic aesthetics at Netflix, Ian Bogost's satiric Facebook game *Cow Clicker*, and the revolutionary economics of Bitcoin. He describes Google's goal of anticipating our questions, Uber's cartoon maps and black box accounting, and what Facebook tells us about programmable value, among other things. If we want to understand the gap between abstraction and messy reality, Finn argues, we need to build a model of “algorithmic reading” and scholarship that attends to process, spearheading a new experimental humanities.

Automating Inequality

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Statistics Done Wrong describes how researchers often go wrong and teaches you the best practices for avoiding their mistakes.

Hello World

This foundational primer offers a comprehensive analysis of the evolution and current status of weapons of mass destruction and seeks to inform and advance policy debate in ways that support international security, while also adding important connective tissue between analytical areas in the IR and historical domains that often remain separate.

Machine Learners

A thought-provoking and wide-ranging exploration of machine learning and the race to build computer intelligences as flexible as our own In the world's top research labs and universities, the race is on to invent the ultimate learning algorithm: one capable of discovering any knowledge from data, and doing anything we want, before we even ask. In The Master Algorithm, Pedro Domingos lifts the veil to give us a peek inside the learning machines that power Google, Amazon, and your smartphone. He assembles a blueprint for the future universal learner--the Master Algorithm--and discusses what it will mean for business, science, and society. If data-ism is today's philosophy, this book is its bible.

Data Science in Practice

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As a budding spy, what better way to conceal your clandestine activities than to miniaturize your secret agent arsenal? Hide a mini catapult in a breath mint tin. Turn a Tic Tac case into vest-pocket candy shooter. Or transform a milk jug cap onto a fake wristwatch that launches tiny paper darts. Toy designer and author John Austin provides detailed, step-by-step instructions with diagrams to show James Bondiacs how to build 35 different spy weapons and surveillance tools. All of the projects in *MiniWeapons of Mass Destruction 2* are built from common household items—binder clips, playing cards, rubber bands, markers, clothespins, paper clips, and discarded packaging—clearly detailed on materials lists. In addition to movie-inspired sidearms and other "weapons," you'll find plans to construct periscopes, bionic ears, grappling hooks, and decipher pens. Once you have assembled your arsenal, the author provides a number of ideas on how to hide your stash—inside a deck of cards, a false-bottom soda bottle, or a cereal box briefcase—and targets for practicing your spycraft, including a flip-down firing range, a fake security camera, and sharks with laser beams. And if you think yourself more of an evil-genius in training, this book also has projects to keep you busy while you finish planning your volcano lair—a Q-pick blow gun, a paper throwing star, a bowler hat launcher, and more. Fluffy Persian cat not included.

Spoon-Fed

New Dark Age

This text systematically presents the basics of quantum mechanics, emphasizing the role of Lie groups, Lie algebras, and their unitary representations. The mathematical structure of the subject is brought to the fore, intentionally avoiding significant overlap with material from standard physics courses in quantum mechanics and quantum field theory. The level of presentation is attractive to mathematics students looking to learn about both quantum mechanics and representation theory, while also appealing to physics students who would like to know more about the mathematics underlying the subject. This text showcases the numerous differences between typical mathematical and physical treatments of the subject. The latter portions of the book focus on central mathematical objects that occur in the Standard Model of particle physics, underlining the deep and intimate connections between mathematics and the physical world. While an elementary physics course of some kind would be helpful to the reader, no specific background in physics is assumed, making this book accessible to students with a grounding in multivariable calculus and linear algebra. Many exercises are provided to develop the reader's understanding of and facility in quantum-theoretical concepts and calculations.

Doing Data Science

Evaluates the negative impact of digital network technologies on the economy and particularly the

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middle class, citing challenges to employment and personal wealth while exploring the potential of a new information economy.

Everybody Lies

THE SUNDAY TIMES BESTSELLER The groundbreaking new book from Tim Spector, bestselling author of *The Diet Myth* and creator of the COVID Symptom Study app. 'Illuminating and so incredibly timely.' Yotam Ottolenghi We are all bombarded with advice about what we should and shouldn't eat, and new scientific discoveries are announced every day. Yet the more we are told about nutrition, the less we seem to understand. Through his pioneering scientific research, Tim Spector has been shocked to discover how little good evidence there is for many of our most deep-rooted ideas about food. In a series of short, myth-busting chapters, *Spoon-Fed* reveals why almost everything we've been told about food is wrong. Spector explores the scandalous lack of good science behind many medical and government food recommendations, and how the food industry holds sway over these policies and our choices. *Spoon-Fed* is a groundbreaking book that forces us to question every diet plan, official recommendation, miracle cure or food label we encounter, and encourages us to rethink our whole relationship with food. Diet may be the most important medicine we all possess. We urgently need to learn how best to use it, not just for our health as individuals but for the future of the planet. 'One of the clearest and most accessible short nutrition books I

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have read: refreshingly open-minded, deeply informative and free of faddish diet rules.' Bee Wilson, Guardian 'This book should be available on prescription.' Felicity Cloake, Literary Review

The People's Platform

Over the course of a generation, algorithms have gone from mathematical abstractions to powerful mediators of daily life. Algorithms have made our lives more efficient, more entertaining, and, sometimes, better informed. At the same time, complex algorithms are increasingly violating the basic rights of individual citizens. Allegedly anonymized datasets routinely leak our most sensitive personal information; statistical models for everything from mortgages to college admissions reflect racial and gender bias. Meanwhile, users manipulate algorithms to "game" search engines, spam filters, online reviewing services, and navigation apps. Understanding and improving the science behind the algorithms that run our lives is rapidly becoming one of the most pressing issues of this century. Traditional fixes, such as laws, regulations and watchdog groups, have proven woefully inadequate. Reporting from the cutting edge of scientific research, *The Ethical Algorithm* offers a new approach: a set of principled solutions based on the emerging and exciting science of socially aware algorithm design. Michael Kearns and Aaron Roth explain how we can better embed human principles into machine code - without halting the advance of data-driven scientific exploration. Weaving together

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innovative research with stories of citizens, scientists, and activists on the front lines, *The Ethical Algorithm* offers a compelling vision for a future, one in which we can better protect humans from the unintended impacts of algorithms while continuing to inspire wondrous advances in technology.

The Joy of x

A revealing look at how negative biases against women of color are embedded in search engine results and algorithms Run a Google search for “black girls”—what will you find? “Big Booty” and other sexually explicit terms are likely to come up as top search terms. But, if you type in “white girls,” the results are radically different. The suggested porn sites and un-moderated discussions about “why black women are so sassy” or “why black women are so angry” presents a disturbing portrait of black womanhood in modern society. In *Algorithms of Oppression*, Safiya Umoja Noble challenges the idea that search engines like Google offer an equal playing field for all forms of ideas, identities, and activities. Data discrimination is a real social problem; Noble argues that the combination of private interests in promoting certain sites, along with the monopoly status of a relatively small number of Internet search engines, leads to a biased set of search algorithms that privilege whiteness and discriminate against people of color, specifically women of color. Through an analysis of textual and media searches as well as extensive research on paid online advertising, Noble exposes a culture of racism and sexism in the way

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discoverability is created online. As search engines and their related companies grow in importance—operating as a source for email, a major vehicle for primary and secondary school learning, and beyond—understanding and reversing these disquieting trends and discriminatory practices is of utmost importance. An original, surprising and, at times, disturbing account of bias on the internet, *Algorithms of Oppression* contributes to our understanding of how racism is created, maintained, and disseminated in the 21st century.

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