

TIM CHARTIER

**GOOGLE BOMBS,
CHOCOLATE-COVERED PI,
AND OTHER COOL
BITS IN COMPUTING**



MATH BYTES

Math Bytes Google Bombs Chocolate Covered Pi And Other Cool Bits In Computing

Matt Parker



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Math Bytes Tim P. Chartier, 2014-04-06 An inviting collection of fun hands on applications in mathematics and computing This book provides a fun hands on approach to learning how mathematics and computing relate to the world around us and help us to better understand it How can reposting on Twitter kill a movie s opening weekend How can you use mathematics to find your celebrity look alike What is Homer Simpson s method for disproving Fermat s Last Theorem Each topic in this refreshingly inviting book illustrates a famous mathematical algorithm or result such as Google s PageRank and the traveling salesman problem and the applications grow more challenging as you progress through the chapters But don t worry helpful solutions are provided each step of the way Math Bytes shows you how to do calculus using a bag of chocolate chips and how to prove the Euler characteristic simply by doodling Generously illustrated in color throughout this lively and entertaining book also explains how to create fractal landscapes with a roll of the dice pick a competitive bracket for March Madness decipher the math that makes it possible to resize a computer font or launch an Angry Bird and much much more All of the applications are presented in an accessible and engaging way enabling beginners and advanced readers alike to learn and explore at their own pace a bit and a byte at a time

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The Mathematics of Various Entertaining Subjects Jennifer Beineke, Jason Rosenhouse, 2019-04-09 The history of mathematics is filled with major breakthroughs resulting from solutions to recreational problems Problems of interest to gamblers led to the modern theory of probability for example and surreal numbers were inspired by the game of Go Yet even with such groundbreaking findings and a wealth of popular level books exploring puzzles and brainteasers research in recreational mathematics has often been neglected The Mathematics of Various Entertaining Subjects brings together authors from a variety of specialties to present fascinating problems and solutions in recreational mathematics Contributors

to the book show how sophisticated mathematics can help construct mazes that look like famous people how the analysis of crossword puzzles has much in common with understanding epidemics and how the theory of electrical circuits is useful in understanding the classic Towers of Hanoi puzzle The card game SET is related to the theory of error correcting codes and simple tic tac toe takes on a new life when played on an affine plane Inspirations for the book s wealth of problems include board games card tricks fake coins flexagons pencil puzzles poker and so much more Looking at a plethora of eclectic games and puzzles The Mathematics of Various Entertaining Subjects is sure to entertain challenge and inspire academic mathematicians and avid math enthusiasts alike

X Games In Mathematics: Sports Training That Counts! Timothy P Chartier,2020-12-02 Sports analytics has gathered tremendous momentum as one of the most dynamic fields Diving deep into the numbers of sports can be game changing or simply a fun exercise for fans How do you get in the game with numbers What questions can be explored What actionable insights can be gleaned Do you like sports This book will detail ways to analyze athletics to gain insight that can otherwise be obscured Like math You ll find many mathematical topics not involving sports You ll also see how sports analytics can train you broadly in mathematics From coaching at the highest levels to national media broadcasts analytics are becoming increasingly indispensable Dive into the numbers behind soccer to basketball to baseball to boxing to swimming dive into the numbers Learn how to get in the game with sports and mathematics

The Best Writing on Mathematics 2015 Mircea Pitici,2016-01-12 The year s finest writing on mathematics from around the world This annual anthology brings together the year s finest mathematics writing from around the world Featuring promising new voices alongside some of the foremost names in the field The Best Writing on Mathematics 2015 makes available to a wide audience many articles not easily found anywhere else and you don t need to be a mathematician to enjoy them These writings offer surprising insights into the nature meaning and practice of mathematics today They delve into the history philosophy teaching and everyday occurrences of math and take readers behind the scenes of today s hottest mathematical debates Here David Hand explains why we should actually expect unlikely coincidences to happen Arthur Benjamin and Ethan Brown unveil techniques for improvising custom made magic number squares Dana Mackenzie describes how mathematicians are making essential contributions to the development of synthetic biology Steven Strogatz tells us why it s worth writing about math for people who are alienated from it Lisa Rougetet traces the earliest written descriptions of Nim a popular game of mathematical strategy Scott Aaronson looks at the unexpected implications of testing numbers for randomness and much much more In addition to presenting the year s most memorable writings on mathematics this must have anthology includes a bibliography of other notable writings and an introduction by the editor Mircea Pitici This book belongs on the shelf of anyone interested in where math has taken us and where it is headed

When Life is Linear Tim Chartier,2015-01-07 From simulating complex phenomenon on supercomputers to storing the coordinates needed in modern 3D printing data is a huge and growing part of our world A major tool to manipulate and study

this data is linear algebra When Life is Linear introduces concepts of matrix algebra with an emphasis on application particularly in the fields of computer graphics and data mining Readers will learn to make an image transparent compress an image and rotate a 3D wireframe model In data mining readers will use linear algebra to read zip codes on envelopes and encrypt sensitive information Chartier details methods behind web search utilized by such companies as Google and algorithms for sports ranking which have been applied to creating brackets for March Madness and predict outcomes in FIFA World Cup soccer The book can serve as its own resource or to supplement a course on linear algebra *Single Digits* Marc Chamberland, 2017-05-30 The numbers one through nine have remarkable mathematical properties and characteristics For instance why do eight perfect card shuffles leave a standard deck of cards unchanged Are there really six degrees of separation between all pairs of people And how can any map need only four colors to ensure that no regions of the same color touch In *Single Digits* Marc Chamberland takes readers on a fascinating exploration of small numbers from one to nine looking at their history applications and connections to various areas of mathematics including number theory geometry chaos theory numerical analysis and mathematical physics Jacket **Von Eins bis Neun - Große Wunder hinter kleinen Zahlen** Marc Chamberland, 2016-09-29 Eine Schatztruhe mathematischer Miniaturen Dieses Buch ist eine Einladung zu einer spannenden Entdeckungsreise Ausgehend von den einstelligen Zahlen eröffnet Marc Chamberland seinen Lesern den Blick auf eine weite mathematische Landschaft Warum zeigt ein Skatenspiel das man achtmal perfekt gemischt hat wieder genau dieselbe Kartenfolge Sind zwei beliebige Menschen auf der ganzen Erde tatsächlich verbunden über eine Bekanntenkette von sechs Personen miteinander verbunden Weshalb lässt sich jede Landkarte mit nur vier Farben so einfärben dass sich nie zwei Gebiete mit derselben Farbe berühren Die Zahlen Eins bis Neun erweisen sich als höchst bemerkenswerte mathematische Objekte von denen aus der Autor ein Netz von Querverbindungen zu verschiedenen Feldern der Mathematik spannt von der Zahlentheorie über die Geometrie die Chaostheorie und die numerische Mathematik bis zur mathematischen Physik Jedes Kapitel ist einer dieser neun Zahlen gewidmet Zu Beginn stehen stets einfache Problemstellungen im Verlauf des Kapitels nimmt der Schwierigkeitsgrad zu Jedes Mal durchstreift Chamberland ein weitläufiges Areal So ist etwa die Drei ebenso mit der Chaostheorie verknüpft wie mit einem noch ungelösten Problem der ägyptischen Brüche mit der Anzahl der Aufsichthabenden in einer Kunstgalerie und der Problematik von Wahlergebnissen Bei der Sieben geht es um Matrizenmultiplikation die Transsilvanienlotterie die Synchronisation von Signalen und den Klang einer Trommel Immer wieder sind auch Rätsel zu lösen wie das der perfekten Quadrate das Hutter'sche oder die Catalan'sche Vermutung Das Buch ist in viele kurze Abschnitte unterteilt die man unabhängig lesen und huppenweise konsumieren kann was beim Ham Sandwich Satz und beim Pizzatheorem durchaus wertlich genommen werden darf Mit den über 100 Miniaturen eröffnet der Autor eine wahre mathematische Schatztruhe für Neugierige und Kenner für Oberstufenschüler wie für Hochscholstudenten für gestandene Mathematiker ebenso wie für alle die von Mustern fasziniert sind *Get in the Game* Tim Chartier, 2022-09-07

An award winning math popularizer who has advised the US Olympic Committee NFL and NBA offers sports fans a new way to understand truly improbable feats in their favorite games In 2013 NBA point guard Steph Curry wowed crowds when he sunk 11 out of 13 three pointers for a game total of 54 points only seven other players including Michael Jordan and Kobe Bryant had scored more in a game at Madison Square Garden Four years later the University of Connecticut women's basketball team won its hundredth straight game defeating South Carolina 66 55 And in 2010 one forecaster an octopus named Paul correctly predicted the outcome of all of Germany's matches in the FIFA World Cup These are surprising events but are they truly improbable In Get in the Game mathematician and sports analytics expert Tim Chartier helps us answer that question condensing complex mathematics down to coin tosses and dice throws to give readers both an introduction to statistics and a new way to enjoy sporting events With these accessible tools Chartier leads us through modeling experiments that develop our intuitive sense of the improbable For example to see how likely you are to beat Curry's three pointer feat consider his 45.3 percent three point shooting average in 2012 13 Take a coin and assume heads is making the shot slightly better than Curry at a fifty percent chance Can you imagine getting heads eleven out of thirteen times With engaging exercises and fun comic book style illustrations by Ansley Earle Chartier's book encourages all readers including those who have never encountered formal statistics or data simulations or even heard of sports analytics but who enjoy watching sports to get in the game

Nonstandard Notebook Tim Chartier, Timothy P. Chartier, Amy Langville, 2024 Our civilization has the odd habit of printing books full of lines We call these notebooks ruled It's an orderly lawful word as befits an orderly lawful document Of course in a ruled notebook the rules are there to invite writing drawing and thinking The rules are riverbanks and the river flowing between them is whatever you want it to be How might changing the lines change the flow of thoughts between them What if the straight parallels gave way to curves clusters and criss crosses What if the once identical pages began to individuate and develop personalities What ideas might come to life if the rules grew unruly Mathematics liked line notebooks does not enjoy a reputation for playful spontaneity If you want to create an unruly notebook for nonstandard thoughts it might seem that algebra is the last place you'd turn But creativity is not as we sometimes imagine a matter of shaking off all constraints It is about playing against them We need rules if only for the sake of breaking them Plotted written and overruled by mathematicians educators and popularizers Tim Chartier and Amy Langville and with a foreword by Ben Orlin this book reveals math's creative side We will see how straight lines can form fractal crenelations how circles can disrupt and unify how waves can create complex landscapes and famous faces The rules of mathematics this book shows are like the rules of a notebook invitations to play Pi: A Source Book J.L. Berggren, Jonathan M. Borwein, Peter Borwein, 2004-06-17 This book documents the history of pi from the dawn of mathematical time to the present One of the beauties of the literature on pi is that it allows for the inclusion of very modern yet accessible mathematics The articles on pi collected herein fall into various classes First and foremost there is a selection

from the mathematical and computational literature of four millennia There is also a variety of historical studies on the cultural significance of the number Additionally there is a selection of pieces that are anecdotal fanciful or simply amusing For this new edition the authors have updated the original material while adding new material of historical and cultural interest There is a substantial exposition of the recent history of the computation of digits of π a discussion of the normality of the distribution of the digits and new translations of works by Viete and Huygen

Pi: The Next Generation David H. Bailey, Jonathan M. Borwein, 2016-07-19 This book contains a compendium of 25 papers published since the 1970s dealing with π and associated topics of mathematics and computer science The collection begins with a Foreword by Bruce Berndt Each contribution is preceded by a brief summary of its content as well as a short key word list indicating how the content relates to others in the collection The volume includes articles on actual computations of π articles on mathematical questions related to π e g Is π normal articles presenting new and often amazing techniques for computing digits of π e g the BBP algorithm for π which permits one to compute an arbitrary binary digit of π without needing to compute any of the digits that came before papers presenting important fundamental mathematical results relating to π and papers presenting new high tech techniques for analyzing π i e new graphical techniques that permit one to visually see if π and other numbers are normal This volume is a companion to *Pi A Source Book* whose third edition released in 2004 The present collection begins with 2 papers from 1976 published by Eugene Salamin and Richard Brent which describe quadratically convergent algorithms for π and other basic mathematical functions derived from some mathematical work of Gauss Bailey and Borwein hold that these two papers constitute the beginning of the modern era of computational mathematics This time period 1970s also corresponds with the introduction of high performance computer systems supercomputers which since that time have increased relentlessly in power by approximately a factor of 100 000 000 advancing roughly at the same rate as Moore's Law of semiconductor technology This book may be of interest to a wide range of mathematical readers some articles cover more advanced research questions suitable for active researchers in the field but several are highly accessible to undergraduate mathematics students

How to Bake Pi Eugenia Cheng, 2015-05-05 One of the world's most creative mathematicians finds the meaning of mathematics in the kitchen in this whimsical rigorous and insightful New York Times book What is math How exactly does it work And what do three siblings trying to share a cake have to do with it In *How to Bake Pi* math professor Eugenia Cheng provides an accessible introduction to the logic and beauty of mathematics powered unexpectedly by insights from the kitchen We learn how the bechamel in a lasagna can be a lot like the number five and why making a good custard proves that math is easy but life is hard At the heart of it all is Cheng's work on category theory a cutting edge mathematics of mathematics that is about figuring out how math works Combined with her infectious enthusiasm for cooking and true zest for life Cheng's perspective on math is a funny journey through a vast territory no popular book on math has explored before So what is math Let's look for the answer in the kitchen

Pi Jonathan M.

Borwein,2014-01-15 The Pleasures of Pi, E and Other Interesting Numbers Adrian Yeo,2006 This is a mathematics book written specifically for the enjoyment of non mathematicians and those who hated math in school The book is organized into two sections I Beauty for the Eye shallow water for the non swimmer and II A Feast for the Mind slowly getting deeper for the more adventurous The author covers beautiful infinite series beginning with those that a young child can understand to one that even Isaac Newton Gottfried Liebniz and the famous Bernoulli brothers could not sum *The Pleasures Of Pi, E And Other Interesting Numbers* Adrian Ning Hong Yeo,2006 Humble Pi Matt Parker,2020-01-21 1 INTERNATIONAL BESTSELLER AN ADAM SAVAGE BOOK CLUB PICK The book length answer to anyone who ever put their hand up in math class and asked When am I ever going to use this in the real world Fun informative and relentlessly entertaining Humble Pi is a charming and very readable guide to some of humanity s all time greatest miscalculations that also gives you permission to feel a little better about some of your own mistakes Ryan North author of How to Invent Everything Our whole world is built on math from the code running a website to the equations enabling the design of skyscrapers and bridges Most of the time this math works quietly behind the scenes until it doesn t All sorts of seemingly innocuous mathematical mistakes can have significant consequences Math is easy to ignore until a misplaced decimal point upends the stock market a unit conversion error causes a plane to crash or someone divides by zero and stalls a battleship in the middle of the ocean Exploring and explaining a litany of glitches near misses and mathematical mishaps involving the internet big data elections street signs lotteries the Roman Empire and an Olympic team Matt Parker uncovers the bizarre ways math trips us up and what this reveals about its essential place in our world Getting it wrong has never been more fun

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