
Math Hacks

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Painless Mental Math

"O'Reilly Media, Inc."

IRC (Internet Relay Chat) may very well turn out to be the world's most successful hack. In 1988, Jarkko Oikarinen wrote the original IRC program at the University of Oulu, Finland. As he says in his foreword, "IRC started as one summer trainee's programming exercise. A hack grew into a software development project that hundreds of people participated in, and then became a worldwide environment where tens of thousands of people now spend time with each other. I have found many of my friends through IRC and learnt a significant part of my present software engineering knowledge while using

and working with IRC.

That would not have been possible without learning from code examples and hacks from others". IRC has continued to grow in popularity since its inception. Millions of people from all over the world now use IRC to chat with friends, discuss projects and collaborate on research. With a simple, clearly defined protocol, IRC has become one of the most accessible chat environments, with clients written for a multitude of operating systems. And IRC is more than just a simple chat system it is a network of intercommunicating servers, allowing thousands of clients to connect from anywhere in the world using the IRC protocol. While IRC is easy to get into and many people are happy to use it

without being aware of what's happening under the hood, there are those who hunger for more knowledge, and this book is for them. IRC Hacks is a collection of tips and tools that cover just about everything needed to become a true IRC master, featuring contributions from some of the most renowned IRC hackers, many of whom collaborated on IRC, grouping together to form the channel #irchacks on the freenode IRC network (irc.freenode.net). Like all of our Hacks books, there are many different ways to use IRC Hacks. You can read the book from cover to cover, but you might be better served by picking an interesting item from the table of contents and just diving in. If you're relatively new to IRC, you should considering starting with a few hacks

from each progressive chapter. Chapter 1 starts you off by showing you how to connect to IRC, while Chapter 2 acquaints you with the everyday concepts you'll need to use IRC effectively. Chapter 3 is all about users and channels, and introduces the first pieces of code. Chapter 4 shows you how to make useful enhancements to IRC clients. Chapter 5 is where you will learn the basics about creating IRC bots, with Chapters 6-12 introducing more complex bots that can be used for logging, servicing communities, searching, announcing, networking, managing channels or simply for having fun. Chapter 13 delves into the IRC protocol in more detail, and Chapter 14 demonstrates some interesting alternative methods for connecting to IRC. Finally, Chapter 15 will move you on to new pastures by showing you how to set up your own IRC server. This book presents an opportunity to learn how IRC works and how to make best use of some of the features that have made it the most successful, most scalable, and most mature chat system on this planet. IRC Hacks delves deep into the

possibilities. [Google Maps Hacks](#) "O'Reilly Media, Inc." "Magical Mathematics reveals the secrets of amazing, fun-to-perform card tricks--and the profound mathematical ideas behind them--that will astound even the most accomplished magician. Persi Diaconis and Ron Graham provide easy, step-by-step instructions for each trick, explaining how to set up the effect and offering tips on what to say and do while performing it. Each card trick introduces a new mathematical idea, and varying the tricks in turn takes readers to the very threshold of today's mathematical knowledge. For example, the Gilbreath principle--a fantastic effect where the cards remain in control despite being shuffled--is found to share an intimate connection with the Mandelbrot set. Other card tricks link to the mathematical secrets of combinatorics, graph theory, number theory, topology, the Riemann hypothesis, and even Fermat's last theorem. Diaconis and Graham are mathematicians as well as skilled performers with decades of professional experience between them. In this book they

share a wealth of conjuring lore, including some closely guarded secrets of legendary magicians. *Magical Mathematics* covers the mathematics of juggling and shows how the I Ching connects to the history of probability and magic tricks both old and new. It tells the stories--and reveals the best tricks--of the eccentric and brilliant inventors of mathematical magic. *Magical Mathematics* exposes old gambling secrets through the mathematics of shuffling cards, explains the classic street-gambling scam of three-card monte, traces the history of mathematical magic back to the thirteenth century and the oldest mathematical trick--and much more"- *Mental Math* "O'Reilly Media, Inc." "Dives headfirst into getting the most out of Google: finding rather than just searching, performing useful tasks to get a job done and using the Google API to automate complicated or repetitive tasks." - cover. **Algebra Magic Tricks** "O'Reilly Media, Inc." Since the dawn of creation, man has designed maps to help identify the space that we

occupy. From Lewis and Clark's pencil-sketched maps of mountain trails to Jacques Cousteau's sophisticated charts of the ocean floor, creating maps of the utmost precision has been a constant pursuit. So why should things change now? Well, they shouldn't. The reality is that map creation, or "cartography," has only improved in its ease-of-use over time. In fact, with the recent explosion of inexpensive computing and the growing availability of public mapping data, mapmaking today extends all the way to the ordinary PC user. *Mapping Hacks*, the latest page-turner from O'Reilly Press, tackles this notion head on. It's a collection of one hundred simple--and mostly free--techniques available to developers and power users who want draw digital maps or otherwise visualize geographic data. Authors Schuyler Erle, Rich Gibson, and Jo Walsh do more than just illuminate the basic concepts of location and cartography, they walk you through the process one step at a time. *Mapping Hacks* shows you where to find the best sources of geographic data, and then

how to integrate that data into your own map. But that's just an appetizer. This comprehensive resource also shows you how to interpret and manipulate unwieldy cartography data, as well as how to incorporate personal photo galleries into your maps. It even provides practical uses for GPS (Global Positioning System) devices--those touch-of-a-button street maps integrated into cars and mobile phones. Just imagine: If Captain Kidd had this technology, we'd all know where to find his buried treasure! With all of these industrial-strength tips and tools, *Mapping Hacks* effectively takes the sting out of the digital mapmaking and navigational process. Now you can create your own maps for business, pleasure, or entertainment--without ever having to sharpen a single pencil. *Statistics Hacks* Cassell Stop fearing math - tips and tricks to ditch the calculator and never make embarrassing errors again. Mental math is not as hard as you think it is. Well, the way you've been doing it is probably pretty difficult, but there's a better, simpler way. Easily calculate: tax, tips, discounts, weights,

conversions, and measurements. *Painless Mental Math* is a shortcut to understanding how math really works - far differently from your childhood textbooks. It will give you techniques to use math in the real world, even for those of us traumatized from algebra/geometry/calculus class. There's no fluff in this book, you simply learn the most common ways to quickly calculate. You will also learn about the two most famous mental math frameworks: Vedic math and the Trachtenberg Method. Once you get in the habit, it will be second nature. Never lose money to miscalculating again! Peter Hollins has studied psychology and peak human performance for over a dozen years and is a bestselling author. He has worked with a multitude of individuals to unlock their potential and path towards success. His writing draws on his academic, coaching, and research experience. Complex calculations and equations made simple - your friends will be amazed and confused.

- The cause of math anxiety and hatred.
- The mindset you need to excel in mental math.
- The most common everyday

math scenarios and how to handle them effortlessly. •Vedic math, the Trachtenberg Method, and other frameworks to solve complex equations easily. You'll wish you knew these tips when you were still in school! For many of us, math is a subject of extreme lack of confidence. Maybe you didn't go into a career because it is math-heavy. No more. Transform your thinking by learning a few simple tricks. Face math anywhere and anytime. Feel a sense of freedom and empowerment. Stop being intimidated and start taking charge!
Math Hacks "O'Reilly Media, Inc."

What is 4% of 75? Can you calculate $60 + 60 \times 0 + 1$? Which is bigger, an 18-inch pizza or two 12-inch pizzas? Join award-winning maths presenter Kyle D Evans on an entertaining tour of viral maths problems that have gone wild on social media in recent years. From the infamous 'Hannah's sweets' exam question to percentages 'life-hacks', viral maths problems seem to capture the public's imagination without fail. In *Maths Tricks to Blow Your Mind*, Kyle presents over 50 viral maths problems with background information,

explanations and solutions to similar problems, all in a humorous, accessible and inclusive manner. Want to dazzle and delight your friends and family? This book shows you how!

Flash Hacks Cassell
Firefox Hacks is ideal for power users who want to take full advantage of Firefox from Mozilla, the next-generation web browser that is rapidly subverting Internet Explorer's once-dominant audience. It's also the first book that specifically dedicates itself to this technology. Firefox is winning such widespread approval for a number of reasons, including the fact that it lets users browse faster and more efficiently. Perhaps its most appealing strength, though, is its increased security something that is covered in great detail in *Firefox Hacks*. Clearly the web browser of the future, Firefox includes most of the features that browser users are familiar with, along with several new features, such as a bookmarks toolbar and tabbed pages that allow users to quickly switch among several web sites. *Firefox Hacks* offers all the valuable tips and tools you need to maximize the

effectiveness of this hot web application. It's all covered, including how to customize its deployment, appearance, features, and functionality. You'll even learn how to install, use, and alter extensions and plug-ins. Aimed at clever people who may or may not be capable of basic programming tasks, this convenient resource describes 100 techniques for 100 strategies that effectively exploit Firefox. Or, put another way, readers of every stripe will find all the user-friendly tips, tools, and tricks they need to make a productive switch to Firefox. With *Firefox Hacks*, a superior and safer browsing experience is truly only pages away. The latest in O'Reilly's celebrated *Hacks* series, *Firefox Hacks* smartly complements other web-application titles such as *Google Hacks* and *PayPal Hacks*.

Magical Mathematics "O'Reilly Media, Inc." Presents information on getting the most out of a PC's hardware and software, covering such topics as upgrading the BIOS, configuring the hard drive, installing more RAM, improving CPU performance, and adding COM ports.

Math Hacks "O'Reilly Media, Inc."

This resource book contains 20 magic tricks based on the properties of whole numbers that are intended to spark the interest and imagination of students. Following each activity, students are asked to write about their discoveries and to create their own magic tricks. A matrix of skills for all the activities and lists of the materials required for each activity are included. Each of the activities has three sections: unraveling the trick, questions to ponder, and further investigations. The emphases of these activities are on student discovery, critical thinking, verbal and written communications, and creativity. The tricks work well in whole class or small group situations. (DDR)

Maths Hacks "O'Reilly Media, Inc."

Change the way you look at math forever, with these insane tricks that make working with numbers fun and exciting for all ages! This incredible collection will teach you how to do equations in a flash (no calculator required!) to help with everyday questions and situations—from figuring

out how many hours you spent at school last year, to who pays what at a restaurant. Impress your friends with your quick problem solving, and foster an appreciation for numbers as you master each trick. Tanya Zakowich, creator of Pink Pencil math, is an online instructor with a knack for making math easy and enjoyable for everyone, students and parents alike. She carefully walks you through every equation and question, and offers tons of helpful examples so you never feel lost. Practice right in the pages of the book, and take it on the go for a fun and educational pass time. You'll be amazed to discover all the easy ways you can use concepts like percentages, long division, times tables, square roots and more to help with day-to-day life. And with Tanya's infectious love of math, it's hard not to fall in love with the subject as you learn from her—whether you're currently studying it in school or did so decades ago!

PC Hacks "O'Reilly Media, Inc."

Discover more than 300 quick tips and exercises to help you optimize your mental performance and improve brain health.

Everyone wants to be at their best mentally, and Brain Hacks provides you with more than 300 actionable tips and exercises you can use right away to help you achieve and maintain peak mental performance. Topics covers include: - Proper nutrition and brain superfoods -Brain-boosting vitamins, minerals, herbs, and supplements -Stress management techniques - Natural mood-enhancing activities -Exercises that stimulate and challenge the brain With straightforward, simple advice, Brain Hacks will teach you how to keep your brain sharp and functioning at optimal levels.

Mapping Hacks PKCS Media

These simple math secrets and tricks will forever change how you look at the world of numbers. Secrets of Mental Math will have you thinking like a math genius in no time. Get ready to amaze your friends—and yourself—with incredible calculations you never thought you could master, as renowned "mathemagician" Arthur Benjamin shares his techniques for lightning-quick calculations and

amazing number tricks. This book will teach you to do math in your head faster than you ever thought possible, dramatically improve your memory for numbers, and—maybe for the first time—make mathematics fun. Yes, even you can learn to do seemingly complex equations in your head; all you need to learn are a few tricks. You'll be able to quickly multiply and divide triple digits, compute with fractions, and determine squares, cubes, and roots without blinking an eye. No matter what your age or current math ability, *Secrets of Mental Math* will allow you to perform fantastic feats of the mind effortlessly. This is the math they never taught you in school.

Mind Performance Hacks
"O'Reilly Media, Inc."

In *Hacking Mathematics*, teacher, author, and math consultant Denis Sheeran shows you how to hack your instructional approach and assessment procedures, in order to promote an amazing culture of mathematical inquiry and engagement that very few students ever see.

Math Hacks "O'Reilly Media, Inc."

100 ingenious hacks to make even the most

complex mathematical theories easy to understand. Everything you need to know about 100 key mathematical concepts condensed into easy-to-understand sound bites designed to stick in your memory and give you an instant grasp of the concept. On each topic, you'll start with a helicopter overview of the subject, which will give you an introduction to the idea and some context surrounding it. Next, you'll zoom in on the core elements of the theory, with clear explanation of each point to make sure you really understand the concept, along with simple examples that everyone can follow. Finally, you'll be given a one-liner hack to really make the theory stick in your mind. The perfect introduction to algebra, logic, probability and much more, this is a great new way to learn about the most important mathematical ideas and concepts in a way that makes them easy to recall even months after reading the book. Topics covered include: Numbers Algebra Logic Geometry Probability Computer science Applied mathematics Mechanics Statistics Set Theory *Brain Hacks* John Wiley &

Sons

With *Science Hacks*, you no longer need a PhD to understand the fascinating ideas behind science's greatest theories and discoveries. This latest addition to the ingenious new *Hacks* series will show you a technique for understanding and, crucially, remembering 100 of the most important and most interesting scientific theories from throughout the ages. On each topic, you'll start with a helicopter overview of the subject, which will give you an introduction to the idea and some context surrounding it. Next, you'll zoom in on the core elements of the theory, with clear explanation of each point to make sure you really understand the concept before finally, you'll be given a one-liner hack to really make the theory stick in your mind. Includes such topics and fields as: Particle Physics Evolutionary Biology Genetics Medicine Chemistry Ecology *XML Hacks* Page Street Publishing Provides ninety HTML5 hacks with complete code examples covering such topics as Canvas, SVG, multimedia, storage, WebSockets, and

geolocation.

Maths Tricks to Blow Your Mind

American

Mathematical Soc.

How do you approach a math problem that challenges you? Do you keep trying until you reach a solution? Or are you like Amy, who gets frustrated easily and gives up? Amy is usually a happy and enthusiastic student in grade five who loves to dance, but she is struggling with a tough math assignment. She doesn't think she is good at math because her classmates always get the answers faster than she does and sometimes she uses her fingers to help her count. Even though her mom tries to help her, Amy is convinced she just cannot do math. She decides not to do the assignment at all since she thinks she wouldn't do well anyway. As Amy goes about her day, her experiences at ballet class, the playground, and gym class have her thinking back to how she gave up on her math assignment. She starts to notice that hard-work, practice, and dedication lead to success, thanks to her friends and teachers. She soon comes to understand that learning math is no different than learning any other skill in

life. With some extra encouragement from her math teacher, a little help from her mom, and a new attitude, Amy realizes that she can do math!

Google Hacks

Crown "Are you frazzled by fractions? Mystified by multiplication? Is the thought of your next math test scarier than an evil clown? Exhale...Math Hacks can help! Look inside for lots of friendly advice to help you relax into study mode and become BFFs with some of the math concepts that kids in grade 3-6 most often struggle with. Plus you'll find lots of tips and tricks to make your mastery of math complete" -- Back cover. [Hacking Mathematics](#) "O'Reilly Media, Inc." Developers and system administrators alike are uncovering the true power of XML, the Extensible Markup Language that enables data to be sent over the Internet from one computer platform to another or one application to another and retain its original format. Flexible enough to be customized for applications as diverse as web sites, electronic data interchange, voice mail systems, wireless devices, web services, and more, XML is quickly becoming ubiquitous.XML

Hacks is a roll-up-your-sleeves guide that distills years of ingenious XML hacking into a complete set of practical tips, tricks, and tools for web developers, system administrators, and programmers who want to go far beyond basic tutorials to leverage the untapped power of XML. With plenty of useful real-world projects that illustrate how to define, read, create, and manipulate XML documents, XML Hacks shows readers how to put XML's power to work on the Internet and within productivity applications. Each Hack in this book can be read easily in a few minutes, saving programmers and administrators countless hours of searching for the right answer. And this is an O'Reilly Hacks book, so it's not just practical, imminently useful, and time-saving. It's also fun. From Anatomy of an XML Document to Exploring SOAP Messages XML Hacks shows you how to save time and accomplish more with fewer resources. If you want much more than the average XML user--to explore and experiment, do things you didn't know you could do with XML, discover clever shortcuts,

and show off just a little--this invaluable book is a must-have.

Crazy Math Tricks You Need to Know!

FriesenPress

A top SAT coach—whose high-scoring strategies earned him \$300 an hour from Manhattan’s elite private-school students—now makes his unique, proven secrets available to all. Money can buy academic success, and the SAT is no exception. Harvard honors graduate Eliot Schrefer discovered this lucrative truth when he took a job at the nation’s most exclusive

test-prep firm. He has helped hundreds of his clients raise their scores an average of 300 points and reel in admission to exclusive colleges. Now, in a guide that is as unique as his tricks, Schrefer brings his extraordinary pointers to every anxious applicant. This user-friendly rescue manual delivers such scoreboosting features as: a killer vocabulary list, including words the SAT has repeated for decades (and why reading *Vanity Fair* magazine is smart test prep) cheap tricks to master the math section

(surprise! you learned all you needed to know about SAT math by the eighth grade) how to be a grammar genius without cracking another book (bonus: discover the tiny subset of grammar rules that is the SAT’s secret lover) Schrefer writes in a snappy, conversational tone, dishing gossipy anecdotes about former clients while presenting advice not found in competing books. With a design that is as vibrant as a gamer’s virtual world, this is the ultimate weapon in the quest for test-score triumph.