Raspberry Pi Hacks Tips Tools For Making Things With The Inexpensive Linux Computer

Learn the Raspberry Pi 3 from the experts! Raspberry Pi User Guide, 4th Edition is the "unofficial official" guide to everything Raspberry Pi 3. Written by the Pi's creator and a leading Pi guru, this book goes straight to the source to bring you the ultimate Raspberry Pi 3 manual. This new fourth edition has been updated to cover the Raspberry Pi 3 board and software, with detailed discussion on its wide array of configurations, languages, and applications. You'll learn how to take full advantage of the mighty Pi's full capabilities, and then expand those capabilities even more with add-on technologies. You'll write productivity and multimedia programs, and learn flexible programming languages that allow you to shape your Raspberry Pi into whatever you want it to be. If you're ready to jump right in, this book gets you started with clear, step-by-step instruction from software installation to system customization. The Raspberry Pi's tremendous popularity has spawned an entire industry of add-ons, parts, hacks, ideas, and inventions. The movement is growing, and pushing the boundaries of possibility along with it—are you ready to be a part of it? This book is your ideal companion for claiming your piece of the Pi. Get all set up with software, and connect to other devices

Understand Linux System Admin nomenclature and conventions Write your own programs using Python and Scratch Extend the Pi's capabilities with add-ons like Wi-Fi dongles, a touch screen, and more The credit-card sized Raspberry Pi has become a global phenomenon. Created by the Raspberry Pi Foundation to get kids interested in programming, this tiny computer kick-started a movement of tinkerers, thinkers, experimenters, and inventors. Where will your Raspberry Pi 3 take you? The Raspberry Pi User Guide, 3rd Edition is your ultimate roadmap to discovery.

Astronomy Hacks begins the space exploration by getting you set up with the right equipment for observing and admiring the stars in an urban setting. Along for the trip are first rate tips for making most of observations. The hacks show you how to: Dark-Adapt Your Notebook Computer. Choose the Best Binocular. Clean Your Eyepieces and Lenses Safely. Upgrade Your Optical Finder. Photograph the Stars with Basic Equipment.

This hands-on guide will teach you all you need to know to bring your electronic inventions to life! This fully updated guide shows, step-by-step, how to disassemble, tweak, and re-purpose everyday devices for use in your own electronics creations. Written in the clear, easy-to-follow style that Dr. Simon Monk is famous for, this expanded edition includes coverage of both Arduino

AND Raspberry Pi. Hacking Electronics: Learning Electronics with Arduino and Raspberry Pi, Second Edition, demonstrates each technique through fun DIY projects. Packed with full-color illustrations, photos, and diagrams, the book gets you up and running on your own projects right away. You will discover how to hack sensors, accelerometers, remote controllers, ultrasonic rangefinders, motors, stereo equipment, FM transmitters, and more. • Contains start-to-finish hacks for both Arduino AND Raspberry Pi! • Features new coverage of ready-made modules available online • Offers tips on working with Simon's hacking electronics kit

A $35 minicomputer about the size of a credit card, the Raspberry Pi has taken the world of computing by storm. Originally intended for teaching programming in schools, the device's low price, small size, and low power consumption have given it wide appeal. This entertaining, informative title reveals the vision behind the Raspberry Pi and the history of its creation. It describes the computer's hardware and the options it offers in terms of operating systems, software, programming languages, and peripherals. Readers also get a look at the lively Raspberry Pi community of tinkerers and their creative projects making use of the minicomputer.

A comprehensive overview of the Internet of Things' core concepts,

technologies, and applications Internet of Things A to Z offers a holistic approach to the Internet of Things (IoT) model. The Internet of Things refers to uniquely identifiable objects and their virtual representations in an Internet-like structure. Recently, there has been a rapid growth in research on IoT communications and networks, that confirms the scalability and broad reach of the core concepts. With contributions from a panel of international experts, the text offers insight into the ideas, technologies, and applications of this subject. The authors discuss recent developments in the field and the most current and emerging trends in IoT. In addition, the text is filled with examples of innovative applications and real-world case studies. Internet of Things A to Z fills the need for an up-to-date volume on the topic. This important book: Covers in great detail the core concepts, enabling technologies, and implications of the Internet of Things Addresses the business, social, and legal aspects of the Internet of Things Explores the critical topic of security and privacy challenges for both individuals and organizations Includes a discussion of advanced topics such as the need for standards and interoperability Contains contributions from an international group of experts in academia, industry, and research Written for ICT researchers, industry professionals, and lifetime IT learners as well as academics and students, Internet of Things A to Z provides a much-needed and comprehensive resource to this burgeoning field.

"Tips & tools for cheap, fun, innovative phone service"--Cover.

Yahoo! took the world by storm in the 1990s as a one-of-a-kind, searchable list of interesting web sites. But ten years later, it has expanded into a department store overflowing with useful and innovative tools and services-from email, blogging, social networking, and instant messaging, to news, financial markets, shopping, movie and TV listings, and much more. Today's Yahoo! keeps you connected with every aspect of your life and every corner of the Web. Yahoo! Hacks shows you how to use, expand, personalize, and tweak Yahoo! in ways you never dreamed possible. You'll learn how to: Fine-tune search queries with keyword shortcuts and advanced syntax Manage and customize Yahoo! Mail, using it as your universal email client to access all your other accounts Explore your social networks with Yahoo! 360, blogging your life, keeping up with friends, and making new contacts Store, sort, blog, feed, track, and otherwise share photos with Flickr and RSS Make My Yahoo! your Yahoo!, and personalize Yahoo!'s many properties Roll your own Yahoo! applications with Yahoo! new Web Services API and Perl, PHP, Java, Python, Ruby, or the programming language of your choice Visualize search results and topics, mash up images from around the Web, and remix other web content List (or hide) your site with Yahoo!, and integrate Yahoo! Groups, Messenger, contextual search (Y!Q), or other Yahoo!

features Whether you want to become a power searcher, news monger, super shopper, or innovative web developer, Yahoo! Hacks provides the tools to take you further than you ever thought possible.

Raspberry Pi HacksTips & Tools for Making Things with the Inexpensive Linux Computer"O'Reilly Media, Inc."

"Tips & tools for overclocking your brain"--Cover.

Greasemonkey Hacks is an invaluable compendium 100 ingenious hacks for power users who want to master Greasemonkey, the hot new Firefox extension that allows you to write scripts that alter the web pages you visit. With Greasemonkey, you can create scripts that make a web site more usable, fix rendering bugs that site owners can't be bothered to fix themselves, or add items to a web site's menu bar. You can alter pages so they work better with technologies that speak a web page out loud or convert it to Braille. Greasemonkey gurus can even import, combine, and alter data from different web sites to meet their own specific needs. Greasemonkey has achieved a cult-like following in its short lifespan, but its uses are just beginning to be explored. Let's say you're shopping on an e-commerce site. You can create a script that will automatically display competitive prices for that particular product from other web sites. The possibilities are limited only by your imagination and your Greasemonkey expertise. Greasemonkey Hacks can't help you with the imagination part, but it can provide the expert hacks-complete with the sample code-you need to turn your

brainstorms into reality. More than just an essential collection of made-to-order Greasemonkey solutions, Greasemonkey Hacks is crammed with sample code, a Greasemonkey API reference, and a comprehensive list of resources, to ensure that every resource you need is available between its covers. Some people are content to receive information from websites passively; some people want to control it. If you are one of the latter, Greasemonkey Hacks provides all the clever customizations and cutting-edge tips and tools you need to take command of any web page you view. Bring your electronic inventions to life! "This full-color book is impressive...there are some really fun projects!" -GeekDad, Wired.com Who needs an electrical engineering degree? This intuitive guide shows how to wire, disassemble, tweak, and re-purpose everyday devices quickly and easily. Packed with full-color illustrations, photos, and diagrams, Hacking Electronics teaches by doing--each topic features fun, easy-to-follow projects. Discover how to hack sensors, accelerometers, remote controllers, ultrasonic rangefinders, motors, stereo equipment, microphones, and FM transmitters. The final chapter contains useful information on getting the most out of cheap or free bench and software tools. Safely solder, join wires, and connect switches Identify components and read schematic diagrams Understand the how and why of electronics theory Work with transistors, LEDs, and laser diode modules Power your devices with a/c supplies, batteries, or solar panels Get up and running on Arduino boards and pre-made modules Use sensors to detect everything from noxious gas to acceleration Build and modify

audio amps, microphones, and transmitters Fix gadgets and scavenge useful parts from dead equipment

In order to establish and then maintain a successful presence on the Web, designing a creative site is only half the battle. What good is an intricate Web infrastructure if you're unable to measure its effectiveness? That's why every business is desperate for feedback on their site's visitors: Who are they? Why do they visit? What information or service is most valuable to them? Unfortunately, most common Web analytics software applications are long on functionality and short on documentation. Without clear guidance on how these applications should be integrated into the greater Web strategy, these often expensive investments go underused and underappreciated. Enter Web Site Measurement Hacks, a guidebook that helps you understand your Web site visitors and how they contribute to your business's success. It helps organizations and individual operators alike make the most of their Web investment by providing tools, techniques, and strategies for measuring--and then improving--their site's usability, performance, and design. Among the many topics covered, you'll learn: definitions of commonly used terms, such as "key performance indicators" (KPIs) how to drive potential customers to action how to gather crucial marketing and customer data which features are useful and which are superfluous advanced techniques that senior Web site analysts use on a daily basis By examining how real-world companies use analytics to their success, Web Site Measurement Hacks demonstrates how you, too, can

accurately measure your Web site's overall effectiveness. Just as importantly, it bridges the gulf between the technical teams charged with maintaining your Web's infrastructure and the business teams charged with making management decisions. It's the technology companion that every site administrator needs.

Learn coding and electronics through 12 original and daring projects that hack wireless signals. The Raspberry Pi is an inexpensive, pocket-sized computer that will help you build and code your own hardware projects. Raspberry Pi Projects for Kids will show you how to harness the power of the Raspberry Pi to create 12 cool projects using simple code and common materials like a webcam, microphone, and LED lights. Step-by-step instructions and detailed diagrams guide you through each project. After a brief introduction to the Python programming language, you'll learn how to: • Create an LED night-light that turns itself on and off • Set up a Raspberry Pi camera to take selfies and videos • Set up a webcam to stream video to your cell phone • Manipulate environments in Minecraft • Hijack local radio waves to play your own songs and recordings • Configure Raspberry Pi to send texts to a cell phone • Track your family members' locations via wi-fi and Bluetooth • Create an MP3 player • Set up a camera to take motion-triggered photos of wildlife • Control the electronics in your home with your cell phone • Teach Raspberry Pi to read aloud posts from your Twitter feed • Play "Rock, Paper, Scissors" against Raspberry Pi Raspberry Pi Projects for Kids will deliver hours of fun and endless inspiration!

Explains how to create a professional-quality Internet radio broadcast, with sections on selecting the right software, creating quality sound, building a show, distributing a podcast, audio editing, videocasting, and more. Original. (Intermediate)

What can you do with the Raspberry Pi, the affordable computer the size of a credit card? All sorts of things! If you're learning how to program--or looking to build new electronic projects, this hands-on guide will show you just how valuable this flexible little platform can be. Updated to include coverage of the Raspberry Pi Model B+, Getting Started with Raspberry Pi takes you step-by-step through many fun and educational possibilities. Take advantage of several preloaded programming languages. Use the Raspberry Pi with Arduino. Create Internet-connected projects. Play with multimedia. With Raspberry Pi, you can do all of this and more. In Getting Started with Raspberry Pi, you'll: Get acquainted with hardware features on the Pi's board Learn enough Linux to move around the operating system Start programming in Python and Scratch Draw graphics, play sounds, and handle mouse events with Pygame Use the Pi's input and output pins to do some hardware hacking Discover how Arduino and the Raspberry Pi can work together Create your own Pi-based web server with Python Work with the Raspberry Pi Camera Module and USB webcams

Presents a collection of tips and techniques for getting the most out of Amazon.com, covering such topics as browsing and searching, community features, selling through Amazon, and Amazon Web services.

So much of what is commonplace today was once considered impossible, or at least wishful thinking. Laser beams in the operating room, cars with built-in guidance systems, cell phones with email access. There's just no getting around the fact that technology always has, and always will be, very cool.But technology isn't only cool; it's also very smart. That's why one of the hottest technological trends nowadays is the creation of smart homes.At an increasing rate, people are turning their homes into state-of-the-art machines, complete with more switches, sensors, and actuators than you can shake a stick at. Whether you want to equip your home with motion detectors for added security, install computer-controlled lights for optimum convenience, or even mount an in-home web cam or two purely for entertainment, the world is now your oyster. Ah, but like anything highly technical, creating a smart home is typically easier said than done.Thankfully, Smart Home Hacks takes the guesswork out of the process. Through a seemingly unending array of valuable tips, tools, and techniques, Smart Home Hacks explains in clear detail how to use Mac, Windows, or Linux to achieve the automated home of your dreams. In no time, you'll learn how to turn a loose collection of sensors and switches into a well-automated and well-functioning home no matter what your technical level may be.Smart Home Hacks covers a litany of stand-alone and integrated smart home solutions designed to enhance

safety, comfort, and convenience in new and existing homes. Kitchens, bedrooms, home offices, living rooms, and even bathrooms are all candidates for smart automation and therefore are all addressed in Smart Home Hacks.Intelligently written by engineering guru and George Jetson wannabe, Gordon Meyer, Smart Home Hacks leaves no stone unturned. From what to purchase to how to use your remote control, it's the ultimate guide to understanding and implementing complete or partial home automation. Baseball Hacks isn't your typical baseball book--it's a book about how to watch, research, and understand baseball. It's an instruction manual for the free baseball databases. It's a cookbook for baseball research. Every part of this book is designed to teach baseball fans how to do something. In short, it's a how-to book--one that will increase your enjoyment and knowledge of the game. So much of the way baseball is played today hinges upon interpreting statistical data. Players are acquired based on their performance in statistical categories that ownership deems most important. Managers make in-game decisions based not on instincts, but on probability - how a particular batter might fare against left-handedpitching, for instance. The goal of this unique book is to show fans all the baseball-related stuff that they can do for free (or close to free). Just as open source projects have made great software freely available, collaborative projects

such as Retrosheet and Baseball DataBank have made great data freely available. You can use these data sources to research your favorite players, win your fantasy league, or appreciate the game of baseball even more than you do now. Baseball Hacks shows how easy it is to get data, process it, and use it to truly understand baseball. The book lists a number of sources for current and historical baseball data, and explains how to load it into a database for analysis. It then introduces several powerful statistical tools for understanding data and forecasting results. For the uninitiated baseball fan, author Joseph Adler walks readers through the core statistical categories for hitters (batting average, on-base percentage, etc.), pitchers (earned run average, strikeout-to-walk ratio, etc.), and fielders (putouts, errors, etc.). He then extrapolates upon these numbers to examine more advanced data groups like career averages, team stats, season-by-season comparisons, and more. Whether you're a mathematician, scientist, or season-ticket holder to your favorite team, Baseball Hacks is sure to have something for you. Advance praise for Baseball Hacks: "Baseball Hacks is the best book ever written for understanding and practicing baseball analytics. A must-read for baseball professionals and enthusiasts alike." -- Ari Kaplan, database consultant to the Montreal Expos, San Diego Padres, and Baltimore Orioles "The game was born in the 19th century, but the passion for its

analysis continues to grow into the 21st. In Baseball Hacks, Joe Adler not only demonstrates thatthe latest data-mining technologies have useful application to the study of baseball statistics, he also teaches the reader how to do the analysis himself, arming the dedicated baseball fan with tools to take his understanding of the game to a higher level." -- Mark E. Johnson, Ph.D., Founder, SportMetrika, Inc. and Baseball Analyst for the 2004 St. Louis Cardinals

"The world of Raspberry Pi is evolving quickly, with many new interface boards and software libraries becoming available all the time. In this cookbook, prolific hacker and author Simon Monk provides more than 200 practical recipes for running this tiny low-cost computer with Linux, programming it with Python, and hooking up sensors, motors and other hardware--including Arduino. You'll also learn basic principles to help you use new technologies with Raspberry Pi as its ecosystem develops. Python and other code examples from the book are available on GitHub. This cookbook is ideal for programmers and hobbyists familiar with the Pi through resources such as Getting Started with Raspberry Pi (O'Reilly)."--

Modern cars are more computerized than ever. Infotainment and navigation systems, Wi-Fi, automatic software updates, and other innovations aim to make driving more convenient. But vehicle technologies haven't kept pace with

today's more hostile security environment, leaving millions vulnerable to attack. The Car Hacker's Handbook will give you a deeper understanding of the computer systems and embedded software in modern vehicles. It begins by examining vulnerabilities and providing detailed explanations of communications over the CAN bus and between devices and systems. Then, once you have an understanding of a vehicle's communication network, you'll learn how to intercept data and perform specific hacks to track vehicles, unlock doors, glitch engines, flood communication, and more. With a focus on low-cost, open source hacking tools such as Metasploit, Wireshark, Kayak, can-utils, and ChipWhisperer, The Car Hacker's Handbook will show you how to: –Build an accurate threat model for your vehicle –Reverse engineer the CAN bus to fake engine signals –Exploit vulnerabilities in diagnostic and data-logging systems –Hack the ECU and other firmware and embedded systems –Feed exploits through infotainment and vehicle-to-vehicle communication systems –Override factory settings with performance-tuning techniques –Build physical and virtual test benches to try out exploits safely If you're curious about automotive security and have the urge to hack a two-ton computer, make The Car Hacker's Handbook your first stop. A guide to getting the most out of Perl covers such topics as productivity hacks,

user interaction, data munging, working with modules, object hacks, and debugging.

Aimed at avid and/or highly skilled video gamers, 'Gaming Hacks' offers a guide to pushing the limits of video game software and hardware using the creative exploits of the gaming gurus.

Raspberry Pi is taking off like a rocket! You can use this amazing, dirt-cheap, credit card-sized computer to learn powerful hardware hacking techniques as you build incredibly creative and useful projects! This complete, full-color guide requires absolutely no experience with either hardware hacking or computer programming. Colorful photos guide you through each project, and the step-by-step instructions are stunningly clear and easy!

The first comprehensive guide to discovering and preventingattacks on the Android OS As the Android operating system continues to increase its shareof the smartphone market, smartphone hacking remains a growingthreat. Written by experts who rank among the world's foremostAndroid security researchers, this book presents vulnerabilitydiscovery, analysis, and exploitation tools for the good guys.Following a detailed explanation of how the Android OS works andits overall security architecture, the authors examine howvulnerabilities can be discovered and exploits developed forvarious system components, preparing you to defend

againstthem. If you are a mobile device administrator, security researcher,Android app developer, or consultant responsible for evaluatingAndroid security, you will find this guide is essential to yourtoolbox. A crack team of leading Android security researchers explainAndroid security risks, security design and architecture, rooting,fuzz testing, and vulnerability analysis Covers Android application building blocks and security as wellas debugging and auditing Android apps Prepares mobile device administrators, security researchers,Android app developers, and security consultants to defend Androidsystems against attack Android Hacker's Handbook is the first comprehensiveresource for IT professionals charged with smartphonesecurity. A competent system administrator knows that a Linux server is a high performance system for routing large amounts of information through a network connection. Setting up and maintaining a Linux server requires understanding not only the hardware, but the ins and outs of the Linux operating system along with its supporting cast of utilities as well as layers of applications software. There's basic documentation online but there's a lot beyond the basics you have to know, and this only comes from people with hands-on, real-world experience. This kind of "know how" is what we sought to capture in Linux Server Hacks.Linux Server Hacks is a collection of 100 industrial-strength hacks, providing tips and tools that solve practical problems for Linux system

administrators. Every hack can be read in just a few minutes but will save hours of searching for the right answer. Some of the hacks are subtle, many of them are non-obvious, and all of them demonstrate the power and flexibility of a Linux system. You'll find hacks devoted to tuning the Linux kernel to make your system run more efficiently, as well as using CVS or RCS to track the revision to system files. You'll learn alternative ways to do backups, how to use system monitoring tools to track system performance and a variety of secure networking solutions. Linux Server Hacks also helps you manage large-scale Web installations running Apache, MySQL, and other open source tools that are typically part of a Linux system.O'Reilly's new Hacks Series proudly reclaims the term "hacking" for the good guys. Hackers use their ingenuity to solve interesting problems. Rob Flickenger is an experienced system administrator, having managed the systems for O'Reilly Network for several years. (He's also into community wireless networking and he's written a book on that subject for O'Reilly.) Rob has also collected the best ideas and tools from a number of other highly skilled contributors.Written for users who already understand the basics, Linux Server Hacks is built upon the expertise of people who really know what they're doing. The Raspberry Pi is an inexpensive programmable credit-card sized computer that plugs into your TV and a keyboard. It can be used for many of the things that your PC does, like spreadsheets, word-processing and playing games, but its real purpose is to inspire children (and adults) to learn how to program. Over five million Raspberry Pis

have been sold worldwide, so far! Raspberry Pi 3 in easy steps starts with the basic components you'll need, setting up the system and logging into the console. Then, in easy steps, it introduces you to the Raspbian operating system that is optimized for the Raspberry Pi. You'll learn how to customize the look and feel of your system, how to navigate the file system, and how to use the powerful system 'shell' to make things happen for you. The new GPIO interface is fully described, and the new NOOBS installer is also described for setup. Raspberry Pi 3 in easy steps enables complete beginners to create their very own computer programs with the Scratch visual programming environment. It also instructs programming in the high-level (human-readable) Python programming language, which is processed by the Python 'interpreter' to produce results fast. Examples demonstrate how to use the included Python 'pygame' module, to make your own games, and how to use the included 'Tkinter' module to create graphical windowed apps. Raspberry Pi 3 in easy steps also illustrates how to control electrical input and output on the Raspberry Pi header from Python scripts, including lighting a lamp, adding more buttons and controlling projects. With the knowledge gained from this book the reader can confidently advance to any future electronic Raspberry Pi project or other explore other programming environments. Covers the latest versions of Python.

Provides more than two hundred tips on ways to modify the Windows XP and Vista operating system, applications, and hardware associated with it.

Learn the art of building a low-cost, portable hacking arsenal using Raspberry Pi 3 and Kali Linux 2 About This Book Quickly turn your Raspberry Pi 3 into a low-cost hacking tool using Kali Linux 2 Protect your confidential data by deftly preventing various network security attacks Use Raspberry Pi 3 as honeypots to warn you that hackers are on your wire Who This Book Is For If you are a computer enthusiast who wants to learn advanced hacking techniques using the Raspberry Pi 3 as your pentesting toolbox, then this book is for you. Prior knowledge of networking and Linux would be an advantage. What You Will Learn Install and tune Kali Linux 2 on a Raspberry Pi 3 for hacking Learn how to store and offload pentest data from the Raspberry Pi 3 Plan and perform man-in-the-middle attacks and bypass advanced encryption techniques Compromise systems using various exploits and tools using Kali Linux 2 Bypass security defenses and remove data off a target network Develop a command and control system to manage remotely placed Raspberry Pis Turn a Raspberry Pi 3 into a honeypot to capture sensitive information In Detail This book will show you how to utilize the latest credit card sized Raspberry Pi 3 and create a portable, low-cost hacking tool using Kali Linux 2. You'll begin by installing and tuning Kali Linux 2 on Raspberry Pi 3 and then get started with penetration testing. You will be exposed to various network security scenarios such as wireless security, scanning network packets in order to detect any issues in the network, and capturing sensitive data. You will also learn how to plan and perform various attacks such as man-in-the-middle, password

cracking, bypassing SSL encryption, compromising systems using various toolkits, and many more. Finally, you'll see how to bypass security defenses and avoid detection, turn your Pi 3 into a honeypot, and develop a command and control system to manage a remotely-placed Raspberry Pi 3. By the end of this book you will be able to turn Raspberry Pi 3 into a hacking arsenal to leverage the most popular open source toolkit, Kali Linux 2.0. Style and approach This concise and fast-paced guide will ensure you get hands-on with penetration testing right from the start. You will quickly install the powerful Kali Linux 2 on your Raspberry Pi 3 and then learn how to use and conduct fundamental penetration techniques and attacks.

Make the most out of the world's first truly compact computer It's the size of a credit card, it can be charged like a smartphone, it runs on open-source Linux, and it holds the promise of bringing programming and playing to millions at low cost. And now you can learn how to use this amazing computer from its co-creator, Eben Upton, in Raspberry Pi User Guide. Cowritten with Gareth Halfacree, this guide gets you up and running on Raspberry Pi, whether you're an educator, hacker, hobbyist, or kid. Learn how to connect your Pi to other hardware, install software, write basic programs, and set it up to run robots, multimedia centers, and more. Gets you up and running on Raspberry Pi, a high-tech computer the size of a credit card Helps educators teach students how to program Covers connecting Raspberry Pi to other hardware, such as monitors and keyboards, how to install software, and how to configure Raspberry Pi

Shows you how to set up Raspberry Pi as a simple productivity computer, write basic programs in Python, connect to servos and sensors, and drive a robot or multimedia center Adults, kids, and devoted hardware hackers, now that you've got a Raspberry Pi, get the very most out of it with Raspberry Pi User Guide.

Hacking with Raspberry Pi for Dummies

Create your own innovative applications in computer vision, game design, music, robotics, and other areas by taking full advantage of Kinect's extensive interactive, multi-media platform. With this book, you get a step-by-step walkthrough of the best techniques and tools to come out of the OpenKinect project, the largest and most active Kinect hacking community. Learn dozens of hacks for building interfaces that respond to body movements, gestures, and voice, using open source toolkits such as openFrameworks, the Processing IDE, and OpenKinect driver library. Whether you're an artist, designer, researcher, or hobbyist, this book will give you a running start with Kinect. Set up a development environment in Windows 7, Mac OSX, or Ubuntu Build special effects apps with tools such as Synapse and Cinder Create gestural interfaces to integrate and control digital music components Capture the realistic motions of a 3D model with NI mate, Blender, and Animata Design gesture-based games with the ZigFu SDK Recreate the dimensions of any room in realtime, using RGBDemo Use gestures to navigate robots and control PC interfaces

Ubuntu Linux--the most popular Linux distribution on the planet--preserves the spirit

embodied in the ancient African word ubuntu, which means both "humanity to others" and "I am what I am because of who we all are." Ubuntu won the Linux Journal Reader's Choice Award for best Linux distribution and is consistently the top-ranked Linux variant on DistroWatch.com. The reason this distribution is so widely popular is that Ubuntu is designed to be useful, usable, customizable, and always available for free worldwide. Ubuntu Hacks is your one-stop source for all of the community knowledge you need to get the most out of Ubuntu: a collection of 100 tips and tools to help new and experienced Linux users install, configure, and customize Ubuntu. With this set of hacks, you can get Ubuntu Linux working exactly the way you need it to. Learn how to: Install and test-drive Ubuntu Linux. Keep your system running smoothly Turn Ubuntu into a multimedia powerhouse: rip and burn discs, watch videos, listen to music, and more Take Ubuntu on the road with Wi-Fi wireless networking, Bluetooth, etc. Hook up multiple displays and enable your video card's 3-D acceleration Run Ubuntu with virtualization technology such as Xen and VMware Tighten your system's security Set up an Ubuntu-powered server Ubuntu Hacks will not only show you how to get everything working just right, you will also have a great time doing it as you explore the powerful features lurking within Ubuntu. "Put in a nutshell, this book is a collection of around 100 tips and tricks which the authors choose to call hacks, which explain how to accomplish various tasks in Ubuntu Linux. The so called hacks range from down right ordinary to the other end of the spectrum of doing specialised things...More over,

each and every tip in this book has been tested by the authors on the latest version of Ubuntu (Dapper Drake) and is guaranteed to work. In writing this book, it is clear that the authors have put in a lot of hard work in covering all facets of configuring this popular Linux distribution which makes this book a worth while buy." -- Ravi Kumar, Slashdot.org

Start programming quickly with this super-fun guide to Raspberry Pi Adventures in Raspberry Pi, 2nd Edition includes 9 cool projects that show you how to set up and start developing on your Raspberry Pi. Updated for the release of the Rev 3 board, this second edition covers all the latest features and tells you everything you need to know. Written specifically for 11-15 year-olds, this book uses the wildly successful, Raspberry Pi to explain the fundamentals of computing. You'll have a blast learning basic programming and system administration skills, beginning with the very basics of how to plug in the board and turn it on. Each project includes an instructional video so you can jump right in and start going through the lessons on your own. This hands-on book gets you up and running fast, with fun projects that let you explore. Learn how to "talk to" your Raspberry Pi Create games and stories with Scratch Program with Turtle Graphics and Python Code music and create a Raspberry Pi jukebox If you want to get started programming today, Adventures in Raspberry Pi is the ultimate hands-on guide. Since the dawn of film, novices and experts have used quick-and-dirty workarounds and audiovisual tricks to improve their motion pictures, from home movies to feature

films. Today, the tools have certainly changed, as have the quality and scope of the results. With digital video, the hacking possibilities are now limitless, for both amateurs and professional artists. From acquiring footage, mixing, editing, and adding effects to final distribution, Digital Video Hacks provides unique tips, tools, and techniques for every stage of video production. You'll learn how to: Get your projects started right using creative preparation tools and techniques,from making your own steadicam, boom, or dolly to effective storyboarding, timecoding, and tape labeling Troubleshoot common shooting problems, including using stop-motion and time-lapse techniques, lighting effects, colored screens and gels, and household objects to establish mood or otherwise wow an audience Create stunning visual effects, such as satellite zooming, surreal scenes, Matrix-like bullet-time, and green screen illusions Fool your audience with audio tricks, replacing flubbed dialogue, smoothing over cuts, and covering missing audio with room tone Add professional features with post-production tricks, including color correction, soundtrack cleanup, opening sequences, and DVD bookmarks Distribute final content in a variety of creative ways, from exporting to basic videotape or DVD to streaming over the internet or even via cell phone Use the web to provide interactivity and dynamic content, attend a remote conference, or vlog your life. Whether you're looking for a new technique to include in your next project, a solution to a common problem, or just a little inspiration, this book reintroduces you to the digital video you only thought you knew.

Presents fifty hacks to customize performance of a Mac, including automating tasks, increasing security, playing Wii games, and modifying wifi.

If you are looking for a low budget, small form-factor remotely accessible hacking tool, then the concepts in this book are ideal for you. If you are a penetration tester who wants to save on travel costs by placing a low-cost node on a target network, you will save thousands by using the methods covered in this book. You do not have to be a skilled hacker or programmer to use this book. It will be beneficial to have some networking experience; however, it is not required to follow the concepts covered in this book.

Sure, it's just what you've been clamoring for: an ultra slick, portable version of the most popular console gaming system in the world. But Sony's new PlayStation Portable (PSP) isn't just a handheld gaming device. Beyond its killer graphics and spectacular widescreen LCD for unparalleled game play, it also sports wireless connectivity and a variety of multimedia features, including video, music, and digital photography. Your wildly versatile, endlessly powerful PSP practically begs you to hack and repurpose it to your liking. To save you the trouble and show you how to make the PSP do more than you ever imagined--and more than Sony ever intended--PSP Hacks is one succinct volume of 50 of the coolest, most useful, up-to-the-minute hacks for this amazing device. You'll learn how to open your PSP's hardware and what to safely plug into it. You'll explore and put to good use every hidden feature of the device. You'll be able to

move all sorts of multimedia onto your PSP and find ways to extend its wireless capabilities. And you'll find out how to get the very best experience out of online game play. With PSP Hacks, you can accomplish a whole lot more than good gaming on the PSP. You'll quickly learn to surf the Web with a PSP, chat in IRC, and use the PSP to read web comics, ebooks, and RSS feeds. Other expert tips and tools allow you to sync an address book to your PSP, watch UMD movies, fool iTunes into thinking the PSP is an iPod Shuffle, and much more. The innovative hacks, tweaks, and how-tos in this essential guide make it easy to customize your PSP, take full advantage of features, capabilities, and functionality far beyond what's listed in the PSP user manual, and make your PSP perform countless tricks that only an all-in-one portable entertainment unit as remarkable and revolutionary as this one could.

Join the Raspberry revolution with these fun and easy Pi projects The Raspberry Pi has opened up a whole new world of innovation for everyone from hardware hackers and programmers to students, hobbyists, engineers, and beyond. Featuring a variety of hands-on projects, this easy-to-understand guide walks you through every step of the design process and will have you creating like a Raspberry Pi pro in no time. You'll learn how to prepare your workspace, assemble the necessary tools, work with test equipment, and find your way around the Raspberry Pi before moving on to a series of fun, lively projects that brings some power to your plain ol' Pi. Introduces Raspberry Pi basics and gives you a solid understanding of all the essentials you'll need to take on

your first project Includes an array of fun and useful projects that show you how to do everything from creating a magic light wand to enhancing your designs with Lego sensors, installing and writing games for the RISC OS, building a transistor tester, and more Provides an easy, hands-on approach to learning more about electronics, programming, and interaction design for Makers and innovators of all ages Bring the power of Pi to your next cool creation with Raspberry Pi Projects For Dummies!

A guide to Firefox covers such topics as security, Web surfing enhancements, and integrating Firefox with other tools.

With more than 60 practical and creative hacks, this book helps you turn Raspberry Pi into the centerpiece of some cool electronics projects. Want to create a controller for a camera or a robot? Set up Linux distributions for media centers or PBX phone systems? That's just the beginning of what you'll find inside Raspberry Pi Hacks. If you're looking to build either a software or hardware project with more computing power than Arduino alone can provide, Raspberry Pi is just the ticket. And the hacks in this book will give you lots of great ideas. Use configuration hacks to get more out of your Pi Build your own web server or remote print server Take the Pi outdoors to monitor your garden or control holiday lights Connect with SETI or construct an awesome Halloween costume Hack the Pi's Linux OS to support more complex projects Decode audio/video formats or make your own music player Achieve a low-weight payload for aerial photography Build a Pi computer cluster or a solar-powered

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