

## ***Qt Sqlite Tutorial Wordpress Com***

Introduces the programming language's syntax, control flow, and basic data structures and covers its interaction with applications and management of large collections of code.

This book helps people find sensitive information on the Web. Google is one of the 5 most popular sites on the internet with more than 380 million unique users per month (Nielsen/NetRatings 8/05). But, Google's search capabilities are so powerful, they sometimes discover content that no one ever intended to be publicly available on the Web including: social security numbers, credit card numbers, trade secrets, and federally classified documents. Google Hacking for Penetration Testers Volume 2 shows the art of manipulating Google used by security professionals and system administrators to find this sensitive information and "self-police their own organizations. Readers will learn how Google Maps and Google Earth provide pinpoint military accuracy, see how bad guys can manipulate Google to create super worms, and see how they can "mash up" Google with MySpace, LinkedIn, and more for passive reconnaissance. • Learn Google Searching Basics Explore Google's Web-based Interface, build Google queries, and work with Google URLs. • Use Advanced Operators to Perform Advanced Queries Combine advanced operators and learn about colliding operators and bad search-fu. • Learn the Ways of the Google Hacker See how to use caches for anonymity and review directory listings and traversal techniques. • Review Document Grinding and Database Digging See the ways to use Google to locate documents and then search within the documents to locate information. • Understand Google's Part in an Information Collection Framework Learn the principles of automating searches and the applications of data mining. • Locate Exploits and Finding Targets Locate exploit code and then vulnerable targets. • See Ten Simple Security Searches Learn a few searches that give good results just about every time and are good for a security assessment. • Track Down Web Servers Locate and profile web servers, login portals, network hardware and utilities. • See How Bad Guys Troll for Data Find ways to search for usernames, passwords, credit card numbers, social security numbers, and other juicy information. • Hack Google Services Learn more about the AJAX Search API, Calendar, Blogger, Blog Search, and more.

This book is written in Cookbook style with a lot of practical tips, code, and step-by-step examples, to ease and quicken your learning curve. If you are a beginner with jQuery/JavaScript skills, this book offers you numerous examples to get you started. If you are a seasoned developer, this book lets you explore jQuery Mobile in greater depth.

A resource to help forensic investigators locate, analyze, and understand digital evidence found on modern Linux systems after a crime, security incident or cyber attack. Practical Linux Forensics dives into the technical details of analyzing postmortem forensic images of Linux systems which have been misused, abused, or the target of malicious attacks. It helps forensic investigators locate and analyze digital evidence found on Linux desktops, servers, and IoT devices. Throughout the book, you learn how to identify digital artifacts which may be of interest to an investigation, draw logical conclusions, and reconstruct past activity from incidents. You'll learn how Linux works from a digital forensics and investigation perspective, and how to interpret evidence from Linux environments. The techniques shown are intended to be independent of the forensic analysis platforms and tools used. Learn how to: Extract evidence from storage devices and analyze partition tables, volume managers, popular Linux filesystems

(Ext4, Btrfs, and Xfs), and encryption Investigate evidence from Linux logs, including traditional syslog, the systemd journal, kernel and audit logs, and logs from daemons and applications Reconstruct the Linux startup process, from boot loaders (UEFI and Grub) and kernel initialization, to systemd unit files and targets leading up to a graphical login Perform analysis of power, temperature, and the physical environment of a Linux machine, and find evidence of sleep, hibernation, shutdowns, reboots, and crashes Examine installed software, including distro installers, package formats, and package management systems from Debian, Fedora, SUSE, Arch, and other distros Perform analysis of time and Locale settings, internationalization including language and keyboard settings, and geolocation on a Linux system Reconstruct user login sessions (shell, X11 and Wayland), desktops (Gnome, KDE, and others) and analyze keyrings, wallets, trash cans, clipboards, thumbnails, recent files and other desktop artifacts Analyze network configuration, including interfaces, addresses, network managers, DNS, wireless artifacts (Wi-Fi, Bluetooth, WWAN), VPNs (including WireGuard), firewalls, and proxy settings Identify traces of attached peripheral devices (PCI, USB, Thunderbolt, Bluetooth) including external storage, cameras, and mobiles, and reconstruct printing and scanning activity

Linux: Embedded Development

JQuery Mobile Cookbook

Secure your network with Kali Linux 2019.1 – the ultimate white hat hackers' toolkit

Building, Defending, and Attacking Modern Computer Networks

Open Source GIS: A GRASS GIS Approach

Google Hacking for Penetration Testers

**A love that burns more fierce than any holy flame threatens to engulf Spain in this scintillating historical romance. Proud as her aristocratic upbringing, bold as the ancient gypsy blood that ran in her veins, the beautiful, golden-haired Maria saw her family burned at the Inquisitor's stake, watched her young lover, the adventurous Rafael de Alagon, forced into the priesthood.**

**Desperate, and bound by a forbidden love, she defied the Grand Inquisitor himself, fled across Spain with the gypsy king, was enslaved by the Blue Sultan, and escaped to entreat Queen Isabella's favor at the dazzling Spanish court. But through all of her travels, Maria is bound to Rafael by a love more unshakeable than faith, that burns hotter than the fires of the Inquisition.**

**If you want to master the art and science of reverse engineering code with IDA Pro for security R&D or software debugging, this is the book for you. Highly organized and sophisticated criminal entities are constantly developing more complex, obfuscated, and armored viruses, worms, Trojans, and botnets. IDA Pro's interactive interface and programmable development language provide you with complete control over code disassembly and debugging. This is the only book which focuses exclusively on the world's most powerful and popular tool for reverse engineering code. \*Reverse Engineer REAL Hostile Code To follow along with this chapter, you must download a file called !DANGER!!INFECTEDMALWARE!DANGER!... 'nuff said. \*Portable Executable (PE) and Executable and Linking Formats (ELF) Understand the physical layout of PE and ELF files, and analyze the components that are essential to reverse engineering. \*Break Hostile Code Armor and Write your own Exploits Understand execution flow, trace functions, recover hard coded passwords, find vulnerable functions, backtrace execution, and craft a buffer overflow. \*Master Debugging Debug in IDA Pro, use a debugger while reverse engineering, perform heap and stack access modification, and use other debuggers. \*Stop Anti-Reversing Anti-reversing, like reverse engineering or coding in assembly, is an art form. The trick of**

course is to try to stop the person reversing the application. Find out how! \*Track a Protocol through a Binary and Recover its Message Structure Trace execution flow from a read event, determine the structure of a protocol, determine if the protocol has any undocumented messages, and use IDA Pro to determine the functions that process a particular message. \*Develop IDA Scripts and Plug-ins Learn the basics of IDA scripting and syntax, and write IDC scripts and plug-ins to automate even the most complex tasks.

Want to learn about databases without the tedium? With its unique combination of Japanese-style comics and serious educational content, *The Manga Guide to Databases* is just the book for you. Princess Ruruna is stressed out. With the king and queen away, she has to manage the Kingdom of Kod's humongous fruit-selling empire. Overseas departments, scads of inventory, conflicting prices, and so many customers! It's all such a confusing mess. But a mysterious book and a helpful fairy promise to solve her organizational problems—with the practical magic of databases. In *The Manga Guide to Databases*, Tico the fairy teaches the Princess how to simplify her data management. We follow along as they design a relational database, understand the entity-relationship model, perform basic database operations, and delve into more advanced topics. Once the Princess is familiar with transactions and basic SQL statements, she can keep her data timely and accurate for the entire kingdom. Finally, Tico explains ways to make the database more efficient and secure, and they discuss methods for concurrency and replication. Examples and exercises (with answer keys) help you learn, and an appendix of frequently used SQL statements gives the tools you need to create and maintain full-featured databases. (Of course, it wouldn't be a royal kingdom without some drama, so read on to find out who gets the girl—the arrogant prince or the humble servant.) This EduManga book is a translation of a bestselling series in Japan, co-published with Ohmsha, Ltd., of Tokyo, Japan.

Each chapter in the book is an individual project and each project is constructed with step-by-step instructions, clearly explained code, and includes the necessary screenshots. You should have basic OpenCV and C/C++ programming experience before reading this book, as it is aimed at Computer Science graduates, researchers, and computer vision experts widening their expertise.

**A Practical Guide to Smarter Programming**

**Functional Design and Architecture**

**Field Guide to Research with Python**

**Reverse Engineering Code with IDA Pro**

**Tools and Techniques for Building with Embedded Linux**

**Efficient R Programming**

In-depth instruction and practical techniques for building with the BeagleBone embedded Linux platform Exploring BeagleBone guide to bringing gadgets, gizmos, and robots to life using the popular BeagleBone embedded Linux platform. Comprehensive detail provide more than just a BeagleBone instruction manual—you'll also learn the underlying engineering techniques that will create your own projects. The book begins with a foundational primer on essential skills, and then gradually moves into computer control, and advanced applications using C/C++, allowing you to learn at your own pace. In addition, the book's companion website

instructional videos, source code, discussion forums, and more, to ensure that you have everything you need. The BeagleBone performance, low cost, and extreme adaptability have made it a favorite development platform, and the Linux software base yet flexible functionality. The BeagleBone has applications in smart buildings, robot control, environmental sensing, to name a few. Expansion boards and peripherals dramatically increase the possibilities. Exploring BeagleBone provides a reader-friendly guide including a crash course in computer engineering. While following step by step, you can: Get up to speed on embedded Linux programming Master interfacing electronic circuits, buses and modules, with practical examples Explore the Internet-connected and the BeagleBone with a display Apply the BeagleBone to sensing applications, including video and sound Explore the BeagleBone Programmable Real-Time Controllers Hands-on learning helps ensure that your new skills stay with you, allowing you to design electronics, modules, or peripherals even beyond the BeagleBone. Insightful guidance and online peer support help you transition from beginner to expert as you master the techniques presented in Exploring BeagleBone, the practical handbook for the popular BeagleBone platform.

Big Data Analytics with Spark is a step-by-step guide for learning Spark, which is an open-source fast and general-purpose distributed framework for large-scale data analysis. You will learn how to use Spark for different types of big data analytics projects, including interactive, graph, and stream data analysis as well as machine learning. In addition, this book will help you become a much sought-after Spark expert. Spark is one of the hottest Big Data technologies. The amount of data generated today by devices, applications, and services is exploding. Therefore, there is a critical need for tools that can analyze large-scale data and unlock value from it. Spark is a powerful technology that meets that need. You can, for example, use Spark to perform low latency computations through the use of iterative algorithms; leverage the features of its shell for easy and interactive Data analysis; employ its fast batch processing features to process your real time data streams and so on. As a result, adoption of Spark is rapidly growing and is replacing MapReduce as the technology of choice for big data analytics. This book provides an introduction to Spark and related big-data technologies. It covers Spark core and its add-on libraries, including Spark SQL, Spark Streaming, GraphX, and MLlib. Big Data Analytics with Spark is therefore written for busy professionals who prefer learning a new technology from a consolidated source instead of spending hours on the Internet trying to pick bits and pieces from different sources. The book also provides a chapter on Scala, the hottest programming language, and the program that underlies Spark. You'll learn the basics of functional programming in Scala, so that you can write Spark applications in it. What's more, Big Data Analytics with Spark provides an introduction to other big data technologies commonly used along with Spark, like Hive, Avro, Kafka and so on. So the book is self-sufficient; all the technologies that you use Spark are covered. The only thing that you are expected to know is programming in any language. There is a critical shortage of people with big data expertise, so companies are willing to pay top dollar for people with skills in areas like Spark and Scala. So reading and absorbing its principles will provide a boost—possibly a big boost—to your career.

Get your guided tour through the Python 3.9 interpreter: Unlock the inner workings of the Python language, compile the Python from source code, and participate in the development of CPython. Are there certain parts of Python that just seem like mag

explains the concepts, ideas, and technicalities of the Python interpreter in an approachable and hands-on fashion. Once you works at the interpreter level, you can optimize your applications and fully leverage the power of Python. By the End of the To: Read and navigate the CPython 3.9 interpreter source code. You'll deeply comprehend and appreciate the inner workings lists, dictionaries, and generators. Make changes to the Python syntax and compile your own version of CPython, from scratch customize the Python core data types with new functionality and run CPython's automated test suite. Master Python's memory capabilities and scale your Python code with parallelism and concurrency. Debug C and Python code like a true professional. benchmark the performance of your Python code and the runtime. Participate in the development of CPython and know how future versions of the Python interpreter and standard library. How great would it feel to give back to the community as a "Developer?" With this book you'll cover the critical concepts behind the internals of CPython and how they work with visual you go along. Each page in the book has been carefully laid out with beautiful typography, syntax highlighting for code examples. Developers Say About The Book: "It's the book that I wish existed years ago when I started my Python journey. [...] After reading your skills will grow and you will be able solve even more complex problems that can improve our world." - Carol Willing, CPython Developer & Member of the CPython Steering Council "CPython Internals is a great (and unique) resource for anybody looking for knowledge of Python to a deeper level." - Dan Bader, Author of Python Tricks "There are a ton of books on Python which teach you but I haven't really come across anything that would go about explaining the internals to those curious minded." - Milan Patil at (a major investment bank)

Android Programming: The Big Nerd Ranch Guide is an introductory Android book for programmers with Java experience. Based on Ranch's popular Android Bootcamp course, this guide will lead you through the wilderness using hands-on example apps complete with explanations of key concepts and APIs. This book focuses on practical techniques for developing apps compatible with Android and up, including coverage of Lollipop and material design. Write and run code every step of the way, creating apps that integrate Android apps, download and display pictures from the web, play sounds, and more. Each chapter and app has been designed to provide the knowledge and experience you need to get started in Android development. Big Nerd Ranch specializes in developing innovative applications for clients around the world. Our experts teach others through our books, bootcamps, and onsite training. Whether you're interested in Android, iOS, Ruby and Ruby on Rails, Cocoa, Mac OS X, JavaScript, HTML5 or UX/UI, we've got you covered. The Android team is constantly improving and updating Android Studio and other tools. As a result, some of the instructions we provide in the book may be correct. You can find an addendum addressing breaking changes at:

<https://github.com/bignerdranch/AndroidCourseResources/raw/master/2ndEdition/Errata/2eAddendum.pdf>.

John Smith - Last Known Survivor of the Microsoft Wars

With examples in F# and C#

Anyone Can Build Killer Trading Strategies in Python

CPython Internals

Come Faith, Come Fire  
BeagleBone Cookbook

*Many important planning decisions in society and business depend on proper knowledge and a correct understanding of movement, be it in transportation, logistics, biology, or the life sciences. Today the widespread use of mobile phones and technologies like GPS and RFID provides an immense amount of data on location and movement. What is needed are new methods of visualization and algorithmic data analysis that are tightly integrated and complement each other to allow end-users and analysts to extract useful knowledge from these extremely large data volumes. This is exactly the topic of this book. As the authors show, modern visual analytics techniques are ready to tackle the enormous challenges brought about by movement data, and the technology and software needed to exploit them are available today. The authors start by illustrating the different kinds of data available to describe movement, from individual trajectories of single objects to multiple trajectories of many objects, and then proceed to detail a conceptual framework, which provides the basis for a fundamental understanding of movement data. With this basis, they move on to more practical and technical aspects, focusing on how to transform movement data to make it more useful, and on the infrastructure necessary for performing visual analytics in practice. In so doing they demonstrate that visual analytics of movement data can yield exciting insights into the behavior of moving persons and objects, but can also lead to an understanding of the events that transpire when things move. Throughout the book, they use sample applications from various domains and illustrate the examples with graphical depictions of both the interactive displays and the analysis results. In summary, readers will benefit from this detailed description of the state of the art in visual analytics in various ways. Researchers will appreciate the scientific precision involved, software technologists will find essential information on algorithms and systems, and practitioners will profit from readily accessible examples with detailed illustrations for practical purposes.*

*A practical guide to testing your infrastructure security with Kali Linux, the preferred choice of pentesters and hackers  
Key Features  
Employ advanced pentesting techniques with Kali Linux to build highly secured systems  
Discover various stealth techniques to remain undetected and defeat modern infrastructures  
Explore red teaming techniques to exploit secured environment  
Book Description  
This book takes you, as a tester or security practitioner, through the*

reconnaissance, vulnerability assessment, exploitation, privilege escalation, and post-exploitation activities used by pentesters. To start with, you'll use a laboratory environment to validate tools and techniques, along with an application that supports a collaborative approach for pentesting. You'll then progress to passive reconnaissance with open source intelligence and active reconnaissance of the external and internal infrastructure. You'll also focus on how to select, use, customize, and interpret the results from different vulnerability scanners, followed by examining specific routes to the target, which include bypassing physical security and the exfiltration of data using a variety of techniques. You'll discover concepts such as social engineering, attacking wireless networks, web services, and embedded devices. Once you are confident with these topics, you'll learn the practical aspects of attacking user client systems by backdooring with fileless techniques, followed by focusing on the most vulnerable part of the network – directly attacking the end user. By the end of this book, you'll have explored approaches for carrying out advanced pentesting in tightly secured environments, understood pentesting and hacking techniques employed on embedded peripheral devices. What you will learn

- Configure the most effective Kali Linux tools to test infrastructure security
- Employ stealth to avoid detection in the infrastructure being tested
- Recognize when stealth attacks are being used against your infrastructure
- Exploit networks and data systems using wired and wireless networks as well as web services
- Identify and download valuable data from target systems
- Maintain access to compromised systems
- Use social engineering to compromise the weakest part of the network - the end users

Who this book is for This third edition of *Mastering Kali Linux for Advanced Penetration Testing* is for you if you are a security analyst, pentester, ethical hacker, IT professional, or security consultant wanting to maximize the success of your infrastructure testing using some of the advanced features of Kali Linux. Prior exposure of penetration testing and ethical hacking basics will be helpful in making the most out of this book.

Expand Raspberry Pi capabilities with fundamental engineering principles

*Exploring Raspberry Pi* is the innovators guide to bringing Raspberry Pi to life. This book favors engineering principles over a 'recipe' approach to give you the skills you need to design and build your own projects. You'll understand the fundamental principles in a way that transfers to any type of electronics, electronic modules, or external peripherals, using a "learning by doing" approach that caters to both beginners and experts. The book begins with basic Linux and

programming skills, and helps you stock your inventory with common parts and supplies. Next, you'll learn how to make parts work together to achieve the goals of your project, no matter what type of components you use. The companion website provides a full repository that structures all of the code and scripts, along with links to video tutorials and supplementary content that takes you deeper into your project. The Raspberry Pi's most famous feature is its adaptability. It can be used for thousands of electronic applications, and using the Linux OS expands the functionality even more. This book helps you get the most from your Raspberry Pi, but it also gives you the fundamental engineering skills you need to incorporate any electronics into any project. Develop the Linux and programming skills you need to build basic applications Build your inventory of parts so you can always "make it work" Understand interfacing, controlling, and communicating with almost any component Explore advanced applications with video, audio, real-world interactions, and more Be free to adapt and create with Exploring Raspberry Pi.

Functional programming languages like F#, Erlang, and Scala are attracting attention as an efficient way to handle the new requirements for programming multi-processor and high-availability applications. Microsoft's new F# is a true functional language and C# uses functional language features for LINQ and other recent advances. Real-World Functional Programming is a unique tutorial that explores the functional programming model through the F# and C# languages. The clearly presented ideas and examples teach readers how functional programming differs from other approaches. It explains how ideas look in F#-a functional language- as well as how they can be successfully used to solve programming problems in C#. Readers build on what they know about .NET and learn where a functional approach makes the most sense and how to apply it effectively in those cases. The reader should have a good working knowledge of C#. No prior exposure to F# or functional programming is required. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book.

Kali Linux - An Ethical Hacker's Cookbook

Quantitative Trading with R

Your Guide to the Python 3 Interpreter

Infinite Exposure

Software and Hardware Problems and Solutions

*Mastering Kali Linux for Advanced Penetration Testing*

*Using R and RStudio for Data Management, Statistical Analysis, and Graphics* CRC Press

*An Up-to-Date, All-in-One Resource for Using SAS and R to Perform Frequent Tasks* The first edition of this popular guide provided a path between SAS and R using an easy-to-understand, dictionary-like approach. Retaining the same accessible format, *SAS and R: Data Management, Statistical Analysis, and Graphics, Second Edition* explains how to easily p  
*BeagleBone is an inexpensive web server, Linux desktop, and electronics hub that includes all the tools you need to create your own projects—whether it's robotics, gaming, drones, or software-defined radio. If you're new to BeagleBone Black, or want to explore more of its capabilities, this cookbook provides scores of recipes for connecting and talking to the physical world with this credit-card-sized computer. All you need is minimal familiarity with computer programming and electronics. Each recipe includes clear and simple wiring diagrams and example code to get you started. If you don't know what BeagleBone Black is, you might decide to get one after scanning these recipes. Learn how to use BeagleBone to interact with the physical world* Connect force, light, and distance sensors Spin servo motors, stepper motors, and DC motors Flash single LEDs, strings of LEDs, and matrices of LEDs Manage real-time input/output (I/O) Work at the Linux I/O level with shell commands, Python, and C Compile and install Linux kernels Work at a high level with JavaScript and the BoneScript library Expand BeagleBone's functionality by adding capes Explore the Internet of Things

*A Beginner's Guide to Gambas* introduces the revolutionary new Linux-based programming language to developers of any skill level. Intended for the Gambas novice, this book quickly introduces all of the major features of Gambas in a step-by-step manner with easy to follow sample programs and clearly written code.

*Practical Linux Forensics*

*Using R and RStudio for Data Management, Statistical Analysis, and Graphics*

*End-to-end penetration testing solutions*

*A Guide for Digital Investigators*

*Mastering OpenCV with Practical Computer Vision Projects*

*Developing Web Applications with Python*

Improve Your Analytical Skills Incorporating the latest R packages as well as new case studies and applications, *Using R and RStudio for Data Management, Statistical Analysis, and Graphics, Second Edition* covers the aspects of R most often used by statistical analysts. New users of R will find the book's simple approach easy to understand while more

Systematic trading allows you to test and evaluate your trading ideas before risking your money. By formulating trading ideas as concrete rules, you can evaluate past performance and draw conclusions about the viability of your trading plan. Following systematic rules provides a consistent approach where you will have some degree of predictability of returns, and perhaps more importantly, it takes emotions and second guessing out of the equation. From the onset, getting started with professional grade development and backtesting of systematic strategies can seem daunting. Many resort to simplified software which will limit your potential. *Trading Evolved* will guide you all the way, from getting started with the industry

standard Python language, to setting up a professional backtesting environment of your own. The book will explain multiple trading strategies in detail, with full source code, to get you well on the path to becoming a professional systematic trader. This is a highly practical book, where every aspect is explained, all source code shown and no holds barred. Written by Andreas F. Clenow, author of the international best sellers *Following the Trend* and *Stocks on the Move*, *Trading Evolved* goes into greater depth and covers strategies for trading both futures and equities. "Trading Evolved is an incredible resource for aspiring quants. Clenow does an excellent job making complex subjects easy to access and understand. Bravo." -- Wes Gray, PhD, CEO Alpha Architect

"This new edition of *Cartographic Relief Presentation* was edited for clarity and consistency but preserves Imhof's insightful commentary and analytical style. Color maps, aerial photographs, and instructive illustrations are faithfully reproduced. The book offers guidelines for properly rendering terrain in maps of all types and scales whether drawn by traditional means or with the aid of a computer. *Cartographic Relief Presentation* was among the essential mapping and graphical design books of the twentieth century. Its continuing relevance for the twenty-first century is assured with this publication."--BOOK JACKET.

Know how to set up, defend, and attack computer networks with this revised and expanded second edition. You will learn to configure your network from the ground up, beginning with developing your own private virtual test environment, then setting up your own DNS server and AD infrastructure. You will continue with more advanced network services, web servers, and database servers and you will end by building your own web applications servers, including WordPress and Joomla!

Systems from 2011 through 2017 are covered, including Windows 7, Windows 8, Windows 10, Windows Server 2012, and Windows Server 2016 as well as a range of Linux distributions, including Ubuntu, CentOS, Mint, and OpenSUSE. Key defensive techniques are integrated throughout and you will develop situational awareness of your network and build a complete defensive infrastructure, including log servers, network firewalls, web application firewalls, and intrusion detection systems. Of course, you cannot truly understand how to defend a network if you do not know how to attack it, so you will attack your test systems in a variety of ways. You will learn about Metasploit, browser attacks, privilege escalation, pass-the-hash attacks, malware, man-in-the-middle attacks, database attacks, and web application attacks.

What You'll Learn

- Construct a testing laboratory to experiment with software and attack techniques
- Build realistic networks that include active directory, file servers, databases, web servers, and web applications such as WordPress and Joomla!
- Manage networks remotely with tools, including PowerShell, WMI, and WinRM
- Use offensive tools such as Metasploit, Mimikatz, Veil, Burp Suite, and John the Ripper
- Exploit networks starting from malware and initial intrusion to privilege escalation through password cracking and persistence mechanisms
- Defend networks by developing operational awareness using auditd and Sysmon to analyze logs, and deploying defensive tools such as the Snort intrusion detection system, IPFire firewalls, and ModSecurity web application firewalls

Who This Book Is For This study guide is intended for everyone involved in or interested in cybersecurity operations (e.g., cybersecurity professionals, IT professionals, business professionals, and

students)

Practical Django Projects

Visual Analytics of Movement

From Mathematics to Generic Programming

Trading Evolved

Vaderlandsche chronyk; of Jaarboek van Holland; Zeeland; en Friesland: van de vroegste tyden af tot op den dood van Hertog Albrecht van Beijeren, etc. [Sometimes wrongly attributed to Daniel van Alphen.]

Beginners Guide to Gambas

*Design patterns and architectures for building production quality applications using functional programming, with examples in Haskell and other FP languages. Functional Design and Architecture is a comprehensive guide to software engineering using functional programming. Inside, you'll find cutting-edge functional design principles and practices for every stage of application development. There's no abstract theory—you'll learn by building exciting sample applications, including an application for controlling a spaceship and a full-fledged backend framework. You'll explore functional design by looking at object-oriented principles you might already know, and learn how they can be reapplied to a functional environment. By the time you're done, you'll be ready to apply the brilliant innovations of the functional world to serious software projects. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications.*

*Over 120 recipes to perform advanced penetration testing with Kali Linux About This Book Practical recipes to conduct effective penetration testing using the powerful Kali Linux Leverage tools like Metasploit, Wireshark, Nmap, and many more to detect vulnerabilities with ease Confidently perform networking and application attacks using task-oriented recipes Who This Book Is For This book is aimed at IT security professionals, pentesters, and security analysts who have basic knowledge of Kali Linux and want to conduct advanced penetration testing techniques. What You Will Learn Installing, setting up and customizing Kali for pentesting on multiple platforms Pentesting routers and embedded devices Bug hunting 2017 Pwning and escalating through corporate network Buffer overflows 101 Auditing wireless networks Fiddling around with software-defined radio Hacking on the run with NetHunter Writing good quality reports In Detail With the current rate of hacking, it is very important to pentest your environment in order to ensure advanced-level security. This book is packed with practical recipes that will quickly get you started with Kali Linux (version 2016.2) according to your needs, and move on to core functionalities. This book will start with the installation and configuration of Kali Linux so that you can perform your tests. You will learn how to plan attack strategies and perform web application exploitation using tools such as Burp, and Jexboss. You will also learn how to perform network*

exploitation using Metasploit, Sparta, and Wireshark. Next, you will perform wireless and password attacks using tools such as Patator, John the Ripper, and airoscript-ng. Lastly, you will learn how to create an optimum quality pentest report! By the end of this book, you will know how to conduct advanced penetration testing thanks to the book's crisp and task-oriented recipes. Style and approach This is a recipe-based book that allows you to venture into some of the most cutting-edge practices and techniques to perform penetration testing with Kali Linux.

There are many excellent R resources for visualization, data science, and package development. Hundreds of scattered vignettes, web pages, and forums explain how to use R in particular domains. But little has been written on how to simply make R work effectively—until now. This hands-on book teaches novices and experienced R users how to write efficient R code. Drawing on years of experience teaching R courses, authors Colin Gillespie and Robin Lovelace provide practical advice on a range of topics—from optimizing the set-up of RStudio to leveraging C++—that make this book a useful addition to any R user's bookshelf. Academics, business users, and programmers from a wide range of backgrounds stand to benefit from the guidance in *Efficient R Programming*. Get advice for setting up an R programming environment Explore general programming concepts and R coding techniques Understand the ingredients of an efficient R workflow Learn how to efficiently read and write data in R Dive into data carpentry—the vital skill for cleaning raw data Optimize your code with profiling, standard tricks, and other methods Determine your hardware capabilities for handling R computation Maximize the benefits of collaborative R programming Accelerate your transition from R hacker to R programmer

Summary This bestseller has been updated and revised to cover all the latest changes to C++ 14 and 17! *C++ Concurrency in Action, Second Edition* teaches you everything you need to write robust and elegant multithreaded applications in C++17. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology You choose C++ when your applications need to run fast. Well-designed concurrency makes them go even faster. C++ 17 delivers strong support for the multithreaded, multiprocessor programming required for fast graphic processing, machine learning, and other performance-sensitive tasks. This exceptional book unpacks the features, patterns, and best practices of production-grade C++ concurrency. About the Book *C++ Concurrency in Action, Second Edition* is the definitive guide to writing elegant multithreaded applications in C++. Updated for C++ 17, it carefully addresses every aspect of concurrent development, from starting new threads to designing fully functional multithreaded algorithms and data structures. Concurrency master Anthony Williams presents examples and practical tasks in every chapter, including insights that will delight even the most experienced developer. What's inside Full coverage of new C++ 17 features Starting and managing threads Synchronizing concurrent operations Designing concurrent code Debugging multithreaded applications About the Reader Written for intermediate C and C++ developers. No prior experience with

*concurrency required. About the Author Anthony Williams has been an active member of the BSI C++ Panel since 2001 and is the developer of the just::thread Pro extensions to the C++ 11 thread library. Table of Contents Hello, world of concurrency in C++! Managing threads Sharing data between threads Synchronizing concurrent operations The C++ memory model and operations on atomic types Designing lock-based concurrent data structures Designing lock-free concurrent data structures Designing concurrent code Advanced thread management Parallel algorithms Testing and debugging multithreaded applications Exploring Raspberry Pi Android Programming The Manga Guide to Databases Real-World Functional Programming Cartographic Relief Presentation Big Data Analytics with Spark*

Since the first edition of Open Source GIS: A GRASS GIS Approach was published in 2002, GRASS has undergone major improvements. This edition includes numerous updates related to the new development; its text is based on the GRASS 5.3 version from December 2003. In addition to updates related to GRASS 5.3 enhancements, the introductory chapters have been re-organized, providing more extensive information on importing and exporting data. Most of the improvements in technical accuracy and clarity were based on valuable feedback from readers. Open Source GIS: A GRASS GIS Approach, Second Edition, provides updated information about the use of GRASS, including geospatial modeling with raster, vector, and image processing, visualization, and coupling with other open source tools for geostatistical analysis and web applications. A brief introduction to programming within GRASS encourages new development. The sample data set used throughout the book has been updated and is available on the GRASS web site. This book also includes links to sites where the GRASS software and on-line reference manuals can be downloaded and applications can be viewed.

More physicists today are taking on the role of software developer as part of their research, but software development isn't always easy for physicists. This practical book teaches essential software development skills to help you automate and accomplish nearly any aspect of your physics-based field. Written by two PhDs in nuclear engineering, this book includes practical examples drawn from a working knowledge of physics concepts. You'll learn how to use the Python programming language to perform everything from collecting and analyzing data to building and publishing your results. In four parts, this book includes: Getting Started: Jump into Python, the command line, data containers, function control and logic, and classes and objects Getting It Done: Learn about regular expressions, analysis and visualization, NumPy, storing data, and HDF5, important data structures in physics, computing in parallel, and deploying software Getting It Right: Build pipelines and software use local and remote version control, and debug and test your code Getting It Out There: Document your code, process and publish your work, collaborate efficiently; dive into software licenses, ownership, and copyright procedures

Digital Forensics with Open Source Tools is the definitive book on investigating and analyzing computer systems and media using open source tools. The book is a technical procedural guide, and explains the use of open source tools on Mac, Linux and Windows systems as a platform for computer forensics. Both well-known and novel forensic methods are demonstrated using command-line and graphical open source tools for examining a wide range of target systems and artifacts. Written by world-renowned forensic practitioners, this book uses the

examination and analysis techniques in the field. It consists of 9 chapters that cover a range of topics such as the open source examination of disk and file system analysis; Windows systems and artifacts; Linux systems and artifacts; Mac OS X systems and artifacts; Internet and network analysis; and automating analysis and extending capabilities. The book lends itself to use by students and those entering the field who do not have prior experience with new tools for different investigations. This book will appeal to forensic practitioners from areas including incident response teams and forensic investigators; forensic technicians from legal, audit, and consulting firms; and law enforcement agencies. Written by world-renowned forensic practitioners Details core concepts and techniques of forensic file system analysis Covers analysis of artifacts from the Windows, Mac OS X, and Linux operating systems

Quantitative Finance with R offers a winning strategy for devising expertly-crafted and workable trading models using the R open source programming language, providing readers with a step-by-step approach to understanding complex quantitative finance problems and building functional trading code.

Flask Web Development

Data Management, Statistical Analysis, and Graphics, Second Edition

Effective Computation in Physics

Programming, Version 3

Qt for Symbian

Cyber Operations

Over 70 recipes to get you started with popular Python libraries based on the principal concepts of data visualization About This Book Learn how to set up an optimal Python environment for data visualization Understand how to import, clean and organize your data Determine different approaches to data visualization and how to choose the most appropriate for your needs Who This Book Is For If you already know about Python programming and want to understand data, data formats, data visualization, and how to use Python to visualize data then this book is for you. What You Will Learn Introduce yourself to the essential tooling to set up your working environment Explore your data using the capabilities of standard Python Data Library and Panda Library Draw your first chart and customize it Use the most popular data visualization Python libraries Make 3D visualizations mainly using mplot3d Create charts with images and maps Understand the most appropriate charts to describe your data Know the matplotlib hidden gems Use plot.ly to share your visualization online In Detail Python Data Visualization Cookbook will progress the reader from the point of installing and setting up a Python environment for data manipulation and visualization all the way to 3D animations using Python libraries. Readers will benefit from over 60 precise and reproducible recipes that will guide the reader towards a better understanding of data concepts and the building blocks for subsequent and sometimes more advanced concepts. Python Data Visualization Cookbook starts by showing how to set up matplotlib and the related libraries that are required for most parts of the book, before moving on to discuss some of the lesser-used diagrams and charts such as Gantt Charts or Sankey diagrams. Initially it uses simple plots and charts to more advanced ones, to make it easy to understand for readers. As the readers will go through the book, they will get to know about the 3D diagrams and animations. Maps are irreplaceable for displaying geo-spatial data, so this book will also show how to build them. In the last chapter, it includes explanation on how to incorporate matplotlib into different environments,

such as a writing system, LaTeX, or how to create Gantt charts using Python. Style and approach A step-by-step recipe based approach to data visualization. The topics are explained sequentially as cookbook recipes consisting of a code snippet and the resulting visualization.

Build mobile applications for Nokia's S60 phones using the hot Qt GUI tool This vital primer—written by developers involved in the latest release of Qt—is a must for anyone wanting to learn this cutting-edge programming environment. Qt is a multi-platform, C++ GUI toolkit that allows you to develop applications and user interfaces once, then deploy them across many desktop and embedded operating systems, without rewriting the source code. Now being applied to the S60 platform (Nokia's new, uniform UI), Qt promises to save development resources, cut costs, and get you to market faster. This unique guide helps you master this exciting tool with step-by-step instruction from some of the best developers in the S60 field. Find easy-to-access tips, techniques, examples, and much more. Walks you through installation of the Qt developer platform and SDK Explains the basic Qt environment and how it can save you development time Delves into the extension of Qt for the S60, including communication and sensors Provides plenty of examples to help you quickly grasp concepts Help revolutionize the S60 mobile market and stay ahead of the crowd with your own state-of-the-art applications, developed with Qt and the detailed information in this unique guide.

In this substantive yet accessible book, pioneering software designer Alexander Stepanov and his colleague Daniel Rose illuminate the principles of generic programming and the mathematical concept of abstraction on which it is based, helping you write code that is both simpler and more powerful. If you're a reasonably proficient programmer who can think logically, you have all the background you'll need. Stepanov and Rose introduce the relevant abstract algebra and number theory with exceptional clarity. They carefully explain the problems mathematicians first needed to solve, and then show how these mathematical solutions translate to generic programming and the creation of more effective and elegant code. To demonstrate the crucial role these mathematical principles play in many modern applications, the authors show how to use these results and generalized algorithms to implement a real-world public-key cryptosystem. As you read this book, you'll master the thought processes necessary for effective programming and learn how to generalize narrowly conceived algorithms to widen their usefulness without losing efficiency. You'll also gain deep insight into the value of mathematics to programming—insight that will prove invaluable no matter what programming languages and paradigms you use. You will learn about How to generalize a four thousand-year-old algorithm, demonstrating indispensable lessons about clarity and efficiency Ancient paradoxes, beautiful theorems, and the productive tension between continuous and discrete A simple algorithm for finding greatest common divisor (GCD) and modern abstractions that build on it Powerful mathematical approaches to abstraction How abstract algebra provides the idea at the heart of generic programming Axioms, proofs, theories, and models: using mathematical techniques to organize knowledge about your algorithms and data structures Surprising subtleties of simple programming tasks and what you can learn from them How practical implementations can exploit theoretical knowledge

Build a Django content management system, blog, and social networking site with James Bennett as he introduces version 1.1 of the popular Django framework. You'll work through the development of each project, implementing and running the

applications while learning new features along the way. Web frameworks are playing a major role in the creation of today's most compelling web applications, because they automate many of the tedious tasks, allowing developers to instead focus on providing users with creative and powerful features. Python developers have been particularly fortunate in this area, having been able to take advantage of Django, a very popular open-source web framework whose stated goal is to "make it easier to build better web applications more quickly with less code." Practical Django Projects introduces this popular framework by way of a series of real-world projects. Readers follow along with the development of each project, implementing and running each application while learning new features along the way. This edition is updated for Django 1.1 and includes an all-new chapter covering practical development tools and techniques you'll be able to apply to your own development workflow.

A Practitioner's Guide to Using Spark for Large Scale Data Analysis

Interfacing to the Real World with Embedded Linux

C++ Concurrency in Action

Exploring BeagleBone

SAS and R

Leverage the power of Linux to develop captivating and powerful embedded Linux projects About This Book Explore the best practices for all embedded product development stages Learn about the compelling features offered by the Yocto Project, such as customization, virtualization, and many more Minimize project costs by using open source tools and programs Who This Book Is For If you are a developer who wants to build embedded systems using Linux, this book is for you. It is the ideal guide for you if you want to become proficient and broaden your knowledge. A basic understanding of C programming and experience with systems programming is needed. Experienced embedded Yocto developers will find new insight into working methodologies and ARM specific development competence. What You Will Learn Use the Yocto Project in the embedded Linux development process Get familiar with and customize the bootloader for a board Discover more about real-time layer, security, virtualization, CGL, and LSB See development workflows for the U-Boot and the Linux kernel, including debugging and optimization Understand the open source licensing requirements and how to comply with them when cohabiting with proprietary programs Optimize your production systems by reducing the size of both the Linux kernel and root filesystems Understand device trees and make changes to accommodate new hardware on your device Design and write multi-threaded applications using POSIX threads Measure real-time latencies and tune the Linux kernel to minimize them In Detail Embedded Linux is a complete Linux distribution employed to operate embedded devices such as smartphones, tablets, PDAs, set-top boxes, and many more. An example of an embedded Linux distribution is Android, developed by Google. This learning path starts with the module Learning Embedded Linux Using the Yocto Project. It introduces embedded Linux software and hardware architecture and presents information about the bootloader. You will go through Linux kernel features and source code and get an overview of the Yocto Project components available. The next module Embedded Linux Projects Using Yocto Project Cookbook takes you through the installation of a professional embedded Yocto setup, then advises you on best practices. Finally, it explains how to quickly get hands-on with the Freescale ARM ecosystem and community layer using the affordable and open source Wandboard embedded board. Moving ahead, the final module Mastering Embedded Linux Programming takes you through the

product cycle and gives you an in-depth description of the components and options that are available at each stage. You will see how functions are split between processes and the usage of POSIX threads. By the end of this learning path, your capabilities will be enhanced to create robust and versatile embedded projects. This Learning Path combines some of the best that Packt has to offer in one complete, curated package. It includes content from the following Packt products: Learning Embedded Linux Using the Yocto Project by Alexandru Vaduva Embedded Linux Projects Using Yocto Project Cookbook by Alex Gonzalez Mastering Embedded Linux Programming by Chris Simmonds Style and approach This comprehensive, step-by-step, pragmatic guide enables you to build custom versions of Linux for new embedded systems with examples that are immediately applicable to your embedded developments. Practical examples provide an easy-to-follow way to learn Yocto project development using the best practices and working methodologies. Coupled with hints and best practices, this will help you understand embedded Linux better.

Take full creative control of your web applications with Flask, the Python-based microframework. With the second edition of this hands-on book, you'll learn the framework from the ground up by developing, step-by-step, a real-world project created by author Miguel Grinberg. This refreshed edition accounts for important technology changes that have occurred in the past three years. You'll learn the framework's core functionality, as well as how to extend applications with advanced web techniques such as database migration and web service communication. The first part of each chapter provides you with reference and background for the topic in question, while the second part guides you through a hands-on implementation of the topic. If you have Python experience, this book shows you how to take advantage of the creative freedom Flask provides.

The Big Nerd Ranch Guide

Digital Forensics with Open Source Tools

Understanding Mathematical and Computational Tools from a Quant's Perspective

The Quick Python Book

Python Data Visualization Cookbook