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Android Internals - Volume I Embedded Android Mac OS X and iOS Internals Do Androids Dream of Electric Sheep? Android Apps Security Android Security Internals Information Security Practice and Experience Real-World Android by Tutorials (First Edition) Android Apps Security Kotlin Programming Research in Attacks, Intrusions, and Defenses Stop Staring Toleration and the Challenges to Liberalism Data Structures & Algorithms in Kotlin (Second Edition) The Mobile Application Hacker's Handbook Android Hacker's Handbook \*OS Internals Essential Linux Device Drivers The Sunday Pigeon Murders iPhone and iOS Forensics Android Forensics Inside the Android OS Kotlin Apprentice (Third Edition) Linux Kernel in a Nutshell On Natural Theology Head First Android Development Android Studio 3.0 Development Essentials - Android 8 Edition Android Programming Android For Dummies Mobile Forensics – Advanced Investigative Strategies Android Programming for Beginners iOS Hacker's Handbook Android Security Cookbook Kotlin for Android Developers Kotlin Apprentice (Second Edition) Practical Mobile Forensics Android Cookbook Practical Mobile Forensics Practical Reverse Engineering The Hardware Hacker

**Android Apps Security** Oct 15 2022 Gain the information you need to design secure, useful, high-performing apps that expose end-users to as little risk as possible. This book shows you how to best design and develop Android apps with security in mind: explore concepts that you can use to secure apps and how you can use and incorporate these security features into your apps. What You Will Learn Identify data that should be secured Use the Android APIs to

ensure confidentiality and integrity of data Build secure apps for the enterprise Implement Public Key Infrastructure and encryption APIs in apps Master owners, access control lists, and permissions to allow user control over app properties Manage authentication, transport layer encryption, and server-side security Who This Book Is For Experienced Android app developers.

**Android Apps Security** Jun 11 2022 Android Apps Security provides guiding principles for how to best design and develop Android apps with security in mind. It explores concepts that can be used to secure apps and how developers can use and incorporate these security features into their apps. This book will provide developers with the information they need to design useful, high-performing, and secure apps that expose end-users to as little risk as possible. Overview of Android OS versions, features, architecture and security. Detailed examination of areas where attacks on applications can take place and what controls should be implemented to protect private user data In-depth guide to data encryption, authentication techniques, enterprise security and applied real-world examples of these concepts

**Android Security Internals** Sep 14 2022 There are more than one billion Android devices in use today, each one a potential target. Unfortunately, many fundamental Android security features have been little more than a black box to all but the most elite security professionals—until now. In Android Security Internals, top Android security expert Nikolay Elenkov takes us under the hood of the Android security system. Elenkov describes Android security architecture from the bottom up, delving into the implementation of major security-related components and subsystems, like Binder IPC, permissions, cryptographic providers, and device administration. You'll learn: –How Android permissions are declared, used, and enforced –How Android manages application packages and employs code signing to verify their authenticity –How Android implements the Java Cryptography Architecture (JCA) and Java Secure Socket Extension (JSSE) frameworks –About Android's credential storage system and APIs, which let applications store cryptographic keys securely –About the online account management framework and how Google accounts integrate with Android –About the implementation of verified boot, disk encryption, lockscreen, and other device security features –How Android's bootloader and recovery OS are used to perform full system updates, and how to obtain root access With its unprecedented level of depth and detail, Android Security Internals is a must-have

for any security-minded Android developer.

**Practical Mobile Forensics** Dec 13 2019 The book is an easy-to-follow guide with clear instructions on various mobile forensic techniques. The chapters and the topics within are structured for a smooth learning curve, which will swiftly empower you to master mobile forensics. If you are a budding forensic analyst, consultant, engineer, or a forensic professional wanting to expand your skillset, this is the book for you. The book will also be beneficial to those with an interest in mobile forensics or wanting to find data lost on mobile devices. It will be helpful to be familiar with forensics in general but no prior experience is required to follow this book.

*\*OS Internals* Oct 03 2021

**Research in Attacks, Intrusions, and Defenses** Apr 09 2022 This book constitutes the refereed proceedings of the 18th International Symposium on Research in Attacks, Intrusions and Defenses, RAID 2015, held in Kyoto, Japan, in November 2015. The 28 full papers were carefully reviewed and selected from 119 submissions. This symposium brings together leading researchers and practitioners from academia, government, and industry to discuss novel security problems, solutions, and technologies related to intrusion detection, attacks, and defenses.

**Inside the Android OS** Apr 28 2021

Kotlin Apprentice (Second Edition) Mar 16 2020

Stop Staring Mar 08 2022 "No other book to date presents facial animation concepts, theory, and practical application with the authority that Stop Staring does." —TIEM Design Crafting believable facial animation is one of the most challenging, yet rewarding aspects of 3D graphics. Done right, this art breathes life into otherwise deadpan faces. In this extraordinary book, professional animator Jason Osipa teaches you how to achieve realistic facial modeling and animation. Using detailed practical examples complemented with high-quality images and a touch of humor, Osipa leads you from design and modeling to rigging and animation. The CD and full-color insert demonstrate techniques you can use to fine-tune your facial animations. Reviewed and approved by Alias|Wavefront, Stop Staring: Facial Modeling and Animation Done Right, uses the Academy Award(r) winning Maya(r) 3D animation and effects software as the focus for its examples, yet the principles and techniques are described in ways that will be helpful to anyone working on facial modeling and animation. Mastering the Face Start

out by getting familiar with the range of possible facial expressions, then focus on animating and modeling the mouth, eyes and brows. When you're ready to bring it all together, you can generate a scene from concept to completion. Topics covered include: Understanding how the whole face affects expression Learning visemes and lip sync techniques Constructing a mouth and mouth keys Building emotion through the eyes and brows Building interfaces to easily connect and control your models Skeletal setup, weighting, and rigging Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

**Information Security Practice and Experience** Aug 13 2022 This book constitutes the proceedings of the 13th International Conference on Information Security and Practice and Experience, ISPEC 2017, held in Melbourne, Australia, in December 2017. The 34 full and 14 short papers presented together with 9 papers from the SocialSec Track in this volume were carefully reviewed and selected from 105 submissions. The papers cover topics such as blockchain, asymmetric encryption, symmetric encryption, lattice-based cryptography, searchable encryption, signature, authentication, cloud security, network security, cyber-physical security, social network and QR code security, software security and trusted computing, and SocialSec track.

**Linux Kernel in a Nutshell** Feb 24 2021 Presents an overview of kernel configuration and building for version 2.6 of the Linux kernel.

Practical Reverse Engineering Nov 11 2019 Analyzing how hacks are done, so as to stop them in the future Reverse engineering is the process of analyzing hardware or software and understanding it, without having access to the source code or design documents. Hackers are able to reverse engineer systems and exploit what they find with scary results. Now the goodguys can use the same tools to thwart these threats. Practical Reverse Engineering goes under the hood of reverse engineering for security analysts, security engineers, and system programmers, so they can learn how to use these same processes to stop hackers in their tracks. The book covers x86, x64, and ARM (the first book to cover all three); Windows kernel-mode code rootkits and drivers; virtual machine protection techniques; and much more. Best of all, it offers a systematic approach to the material, with plenty of hands-on exercises and real-world examples. Offers a systematic approach to understanding reverse engineering, with hands-on exercises and real-world examples Covers x86, x64, and advanced RISC machine (ARM) architectures as well as deobfuscation and

virtual machine protection techniques Provides special coverage of Windows kernel-mode code (rootkits/drivers), a topic not often covered elsewhere, and explains how to analyze drivers step by step Demystifies topics that have a steep learning curve Includes a bonus chapter on reverse engineering tools Practical Reverse Engineering: Using x86, x64, ARM, Windows Kernel, and Reversing Tools provides crucial, up-to-date guidance for a broad range of IT professionals.

*Android Cookbook* Jan 14 2020 Provides instruction on building Android apps, including solutions to working with web services, multitouch gestures, location awareness, and device features.

*Essential Linux Device Drivers* Sep 02 2021 “Probably the most wide ranging and complete Linux device driver book I’ve read.” --Alan Cox, Linux Guru and Key Kernel Developer “Very comprehensive and detailed, covering almost every single Linux device driver type.” --Theodore Ts’o, First Linux Kernel Developer in North America and Chief Platform Strategist of the Linux Foundation The Most Practical Guide to Writing Linux Device Drivers Linux now offers an exceptionally robust environment for driver development: with today’s kernels, what once required years of development time can be accomplished in days. In this practical, example-driven book, one of the world’s most experienced Linux driver developers systematically demonstrates how to develop reliable Linux drivers for virtually any device. *Essential Linux Device Drivers* is for any programmer with a working knowledge of operating systems and C, including programmers who have never written drivers before. Sreekrishnan Venkateswaran focuses on the essentials, bringing together all the concepts and techniques you need, while avoiding topics that only matter in highly specialized situations. Venkateswaran begins by reviewing the Linux 2.6 kernel capabilities that are most relevant to driver developers. He introduces simple device classes; then turns to serial buses such as I2C and SPI; external buses such as PCMCIA, PCI, and USB; video, audio, block, network, and wireless device drivers; user-space drivers; and drivers for embedded Linux—one of today’s fastest growing areas of Linux development. For each, Venkateswaran explains the technology, inspects relevant kernel source files, and walks through developing a complete example. • Addresses drivers discussed in no other book, including drivers for I2C, video, sound, PCMCIA, and different types of flash memory • Demystifies essential kernel services and facilities, including kernel threads and helper interfaces • Teaches polling, asynchronous notification, and I/O control • Introduces the Inter-

Integrated Circuit Protocol for embedded Linux drivers • Covers multimedia device drivers using the Linux-Video subsystem and Linux-Audio framework • Shows how Linux implements support for wireless technologies such as Bluetooth, Infrared, WiFi, and cellular networking • Describes the entire driver development lifecycle, through debugging and maintenance • Includes reference appendixes covering Linux assembly, BIOS calls, and Seq files

Android Security Cookbook May 18 2020 Android Security Cookbook' breaks down and enumerates the processes used to exploit and remediate Android app security vulnerabilities in the form of detailed recipes and walkthroughs. Android Security Cookbook is aimed at anyone who is curious about Android app security and wants to be able to take the necessary practical measures to protect themselves; this means that Android application developers, security researchers and analysts, penetration testers, and generally any CIO, CTO, or IT managers facing the impending onslaught of mobile devices in the business environment will benefit from reading this book.

**Mac OS X and iOS Internals** Dec 17 2022 An in-depth look into Mac OS X and iOS kernels Powering Macs, iPhones, iPads and more, OS X and iOS are becoming ubiquitous. When it comes to documentation, however, much of them are shrouded in mystery. Cocoa and Carbon, the application frameworks, are neatly described, but system programmers find the rest lacking. This indispensable guide illuminates the darkest corners of those systems, starting with an architectural overview, then drilling all the way to the core. Provides you with a top down view of OS X and iOS Walks you through the phases of system startup—both Mac (EFi) and mobile (iBoot) Explains how processes, threads, virtual memory, and filesystems are maintained Covers the security architecture Reviews the internal Apis used by the system—BSD and Mach Dissects the kernel, XNU, into its sub components: Mach, the BSD Layer, and I/o kit, and explains each in detail Explains the inner workings of device drivers From architecture to implementation, this book is essential reading if you want to get serious about the internal workings of Mac OS X and iOS.

**Do Androids Dream of Electric Sheep?** Nov 16 2022 By 2021, the Terminus War had driven mankind off-planet and entire species into extinction. Now only the rich can afford living creatures; others may buy amazingly realistic simulacrae: horses, cats, sheep ... Even humans. These artificial people are so advanced it's impossible to tell them from true men and women--except for their lack of empathy. Without empathy, androids can--and do--kill their

owners and blend into society, so they're illegal on Earth. It's Rick Deckard's job to find these rogues and "retire" them. But "andys" tend to fight back--with deadly results.

On Natural Theology Jan 26 2021

*Android Programming for Beginners* Jul 20 2020 Learn all the Java and Android skills you need to start making powerful mobile applications with practical and actionable steps Key Features Kick-start your Android programming career, or just have fun publishing apps to the Google Play marketplace A first-principles introduction to Java, via Android, which means you'll be able to start building your own applications from scratch Learn by example and build four real-world apps and dozens of mini-apps throughout the book Book Description Are you trying to start a career in programming, but haven't found the right way in? Do you have a great idea for an app, but don't know how to make it a reality? Or maybe you're just frustrated that in order to learn Android, you must know Java. If so, then this book is for you. This new and expanded second edition of *Android Programming for Beginners* will be your companion to create Android Pie applications from scratch. We will introduce you to all the fundamental concepts of programming in an Android context, from the basics of Java to working with the Android API. All examples use the up-to-date API classes, and are created from within Android Studio, the official Android development environment that helps supercharge your application development process. After this crash course, we'll dive deeper into Android programming and you'll learn how to create applications with a professional-standard UI through fragments and store your user's data with SQLite. In addition, you'll see how to make your apps multilingual, draw to the screen with a finger, and work with graphics, sound, and animations too. By the end of this book, you'll be ready to start building your own custom applications in Android and Java. What you will learn Master the fundamentals of coding Java for Android Pie Install and set up your Android development environment Build functional user interfaces with the Android Studio visual designer Add user interaction, data captures, sound, and animation to your apps Manage your apps' data using the built-in Android SQLite database Find out about the design patterns used by professionals to make top-grade applications Build, deploy, and publish real Android applications to the Google Play marketplace Who this book is for This book is for you if you are completely new to Java, Android, or programming and want to make Android applications. This book also acts as a refresher for those who

already have experience of using Java on Android to advance their knowledge and make fast progress through the early projects.

**Android Programming** Oct 23 2020 Android Programming: The Big Nerd Ranch Guide is an introductory Android book for programmers with Java experience. Based on Big Nerd Ranch's popular Android Bootcamp course, this guide will lead you through the wilderness using hands-on example apps combined with clear explanations of key concepts and APIs. This book focuses on practical techniques for developing apps compatible with Android 4.1 (Jelly Bean) and up, including coverage of Lollipop and material design. Write and run code every step of the way, creating apps that integrate with other Android apps, download and display pictures from the web, play sounds, and more. Each chapter and app has been designed and tested to provide the knowledge and experience you need to get started in Android development. Big Nerd Ranch specializes in developing and designing innovative applications for clients around the world. Our experts teach others through our books, bootcamps, and onsite training. Whether it's 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 are no longer correct. You can find an addendum addressing breaking changes at: <https://github.com/bignerdranch/AndroidCourseResources/raw/master/2ndEdition/Errata/2eAddendum.pdf>.

**Kotlin Programming** May 10 2022 Kotlin is a statically typed programming language designed to interoperate with Java and fully supported by Google on the Android operating system. Based on Big Nerd Ranch's popular Kotlin Essentials course, this guide shows you how to work effectively with the Kotlin programming language through hands-on examples and clear explanations of key Kotlin concepts and foundational APIs. Written for Kotlin 1.2, this book will also introduce you to JetBrains' IntelliJ IDEA development environment. Whether you are an experienced Android developer looking for modern features beyond what Java offers or a new developer ready to learn your first programming language, the authors will guide you from first principles to advanced usage of Kotlin. By the end of this book, you will be empowered to create reliable, concise applications in Kotlin.

**Android Hacker's Handbook** Nov 04 2021 The first comprehensive guide to discovering and preventing attacks on the Android OS As the Android operating system continues to increase its share of the smartphone market,



smartphone hacking remains a growing threat. Written by experts who rank among the world's foremost Android security researchers, this book presents vulnerability discovery, analysis, and exploitation tools for the good guys. Following a detailed explanation of how the Android OS works and its overall security architecture, the authors examine how vulnerabilities can be discovered and exploits developed for various system components, preparing you to defend against them. If you are a mobile device administrator, security researcher, Android app developer, or consultant responsible for evaluating Android security, you will find this guide is essential to your toolbox. A crack team of leading Android security researchers explain Android security risks, security design and architecture, rooting, fuzz testing, and vulnerability analysis. Covers Android application building blocks and security as well as debugging and auditing Android apps. Prepares mobile device administrators, security researchers, Android app developers, and security consultants to defend Android systems against attack. Android Hacker's Handbook is the first comprehensive resource for IT professionals charged with smartphone security.

**The Hardware Hacker** Oct 11 2019 For over a decade, Andrew "bunnie" Huang, one of the world's most esteemed hackers, has shaped the fields of hacking and hardware, from his cult-classic book *Hacking the Xbox* to the open-source laptop Novena and his mentorship of various hardware startups and developers. In *The Hardware Hacker*, Huang shares his experiences in manufacturing and open hardware, creating an illuminating and compelling career retrospective. Huang's journey starts with his first visit to the staggering electronics markets in Shenzhen, with booths overflowing with capacitors, memory chips, voltmeters, and possibility. He shares how he navigated the overwhelming world of Chinese factories to bring chumby, Novena, and Chibitronics to life, covering everything from creating a Bill of Materials to choosing the factory to best fit his needs. Through this collection of personal essays and interviews on topics ranging from the legality of reverse engineering to a comparison of intellectual property practices between China and the United States, bunnie weaves engineering, law, and society into the tapestry of open hardware. With highly detailed passages on the ins and outs of manufacturing and a comprehensive take on the issues associated with open source hardware, *The Hardware Hacker* is an invaluable resource for aspiring hackers and makers.

**Embedded Android** Jan 18 2023 Embedded Android is for Developers wanting to create embedded systems based

on Android and for those wanting to port Android to new hardware, or creating a custom development environment. Hackers and moders will also find this an indispensable guide to how Android works.

Head First Android Development Dec 25 2020 What will you learn from this book? If you have an idea for a killer Android app, this book will help you build your first working application in a jiffy. You'll learn hands-on how to structure your app, design interfaces, create a database, make your app work on various smartphones and tablets, and much more. It's like having an experienced Android developer sitting right next to you! All you need is some Java know-how to get started. Why does this book look so different? Based on the latest research in cognitive science and learning theory, Head First Android Development uses a visually rich format to engage your mind, rather than a text-heavy approach that puts you to sleep. Why waste your time struggling with new concepts? This multi-sensory learning experience is designed for the way your brain really works.

**The Mobile Application Hacker's Handbook** Dec 05 2021 See your app through a hacker's eyes to find the real sources of vulnerability The Mobile Application Hacker's Handbook is a comprehensive guide to securing all mobile applications by approaching the issue from a hacker's point of view. Heavily practical, this book provides expert guidance toward discovering and exploiting flaws in mobile applications on the iOS, Android, Blackberry, and Windows Phone platforms. You will learn a proven methodology for approaching mobile application assessments, and the techniques used to prevent, disrupt, and remediate the various types of attacks. Coverage includes data storage, cryptography, transport layers, data leakage, injection attacks, runtime manipulation, security controls, and cross-platform apps, with vulnerabilities highlighted and detailed information on the methods hackers use to get around standard security. Mobile applications are widely used in the consumer and enterprise markets to process and/or store sensitive data. There is currently little published on the topic of mobile security, but with over a million apps in the Apple App Store alone, the attack surface is significant. This book helps you secure mobile apps by demonstrating the ways in which hackers exploit weak points and flaws to gain access to data. Understand the ways data can be stored, and how cryptography is defeated Set up an environment for identifying insecurities and the data leakages that arise Develop extensions to bypass security controls and perform injection attacks Learn the different attacks that apply specifically to cross-platform apps IT security breaches have made big headlines, with millions of

consumers vulnerable as major corporations come under attack. Learning the tricks of the hacker's trade allows security professionals to lock the app up tight. For better mobile security and less vulnerable data, *The Mobile Application Hacker's Handbook* is a practical, comprehensive guide.

[Kotlin for Android Developers](#) Apr 16 2020 Google has officially announced Kotlin as a supported language to write Android Apps. These are amazing news for Android developers, which now have the ability to use a modern and powerful language to make their job easier and funnier. But this comes with other responsibilities. If you want to be a good candidate for new Android opportunities, Kotlin is becoming a new need most companies will ask for. So it's your time to start learning about it! And "*Kotlin for Android Developers*" is the best tool. Recommended by both Google and JetBrains, this book will guide through the process of learning all the new features that Java was missing, in an easy and fun way. You'll be creating an Android app from ground using Kotlin as the main language. The idea is to learn the language by example, instead of following a typical structure. I'll be stopping to explain the most interesting concepts and ideas about Kotlin, comparing it with Java 7. This way, you can see what the differences are and which parts of the language will help you speed up your work. This book is not meant to be a language reference, but a tool for Android developers to learn Kotlin and be able to continue with their own projects by themselves. I'll be solving many of the typical problems we have to face in our daily lives by making use of the language expressiveness and some other really interesting tools and libraries. The book is very practical, so it is recommended to follow the examples and the code in front of a computer and try everything it's suggested. You could, however, take a first read to get a broad idea and then dive into practice.

[Toleration and the Challenges to Liberalism](#) Feb 07 2022 This book explores the relationship between different versions of liberalism and toleration by focusing on their shared theoretical and political challenges. Toleration is among the most pivotal and the most contested liberal values and virtues. Debates about the conceptual scope, justification, and political role of toleration are closely aligned with historical and contemporary philosophical controversies on the foundations of liberalism. The essays in this volume focus on the specific connection between toleration and liberalism. The essays in Part I reconstruct some of the major historical controversies surrounding toleration and liberalism. Part II centers on general conceptual and justificatory questions concerning toleration as a

central category for the definition of liberal political theory. Part III is devoted to the theoretical analysis of applied issues and cases of conflicts of toleration in liberal states and societies. Toleration and the Challenges to Liberalism will be of interest to researchers and advanced students in social and political philosophy, ethics, and political theory.

*The Sunday Pigeon Murders* Aug 01 2021 Book Excerpt: ...eathed. Handsome opened his mouth to speak, shook his head, and shut it again. Bingo sat down on the sagging couch and reached for the remaining bottle of beer. "Shut up," he said to the speechless Handsome. "I'm thinking fast." "The prints," Handsome began timidly. "Don't you want me to make--" "This one is all we need," Bingo told him. He went on gazing at it. "Do you know where Harkness Penneyth lives?" Handsome blinked. "In 1934," he said, "he lived just off Central Park West. It was a little, sort of yellow-colored apartment house. There was a tailor shop next door." He paused. "You want the number too?" "Never mind," Handsome said. "That was seven years ago, and he's probably moved by now. But we'll find him." Handsome asked, "Do you think he'd want to buy that picture?" "No," Bingo told him, "but I think he'd like to buy Mr. Pigeon." He looked dreamily into space. "First, Handsome, we've got to find Mr. Pigeon and hide him. Hide him good, and fix it so h..

**Practical Mobile Forensics** Feb 13 2020 Become well-versed with forensics for the Android, iOS, and Windows 10 mobile platforms by learning essential techniques and exploring real-life scenarios Key Features Apply advanced forensic techniques to recover deleted data from mobile devices Retrieve and analyze data stored not only on mobile devices but also on the cloud and other connected mediums Use the power of mobile forensics on popular mobile platforms by exploring different tips, tricks, and techniques Book Description Mobile phone forensics is the science of retrieving data from a mobile phone under forensically sound conditions. This updated fourth edition of Practical Mobile Forensics delves into the concepts of mobile forensics and its importance in today's world. The book focuses on teaching you the latest forensic techniques to investigate mobile devices across various mobile platforms. You will learn forensic techniques for multiple OS versions, including iOS 11 to iOS 13, Android 8 to Android 10, and Windows 10. The book then takes you through the latest open source and commercial mobile forensic tools, enabling you to analyze and retrieve data effectively. From inspecting the device and retrieving data from the cloud,

through to successfully documenting reports of your investigations, you'll explore new techniques while building on your practical knowledge. Toward the end, you will understand the reverse engineering of applications and ways to identify malware. Finally, the book guides you through parsing popular third-party applications, including Facebook and WhatsApp. By the end of this book, you will be proficient in various mobile forensic techniques to analyze and extract data from mobile devices with the help of open source solutions. What you will learn Discover new data extraction, data recovery, and reverse engineering techniques in mobile forensics Understand iOS, Windows, and Android security mechanisms Identify sensitive files on every mobile platform Extract data from iOS, Android, and Windows platforms Understand malware analysis, reverse engineering, and data analysis of mobile devices Explore various data recovery techniques on all three mobile platforms Who this book is for This book is for forensic examiners with basic experience in mobile forensics or open source solutions for mobile forensics. Computer security professionals, researchers or anyone looking to gain a deeper understanding of mobile internals will also find this book useful. Some understanding of digital forensic practices will be helpful to grasp the concepts covered in the book more effectively.

**Kotlin Apprentice (Third Edition)** Mar 28 2021 Learn how to program with Kotlin! Kotlin is the exciting modern language from JetBrains, creators of IntelliJ IDEA, the basis of many popular IDEs such as Android Studio and PyCharm. Since the adoption of Kotlin by Google as an official language for Android, the momentum behind Kotlin has gone off the charts. Kotlin supports many platforms, including Android, the web, the back-end, and even iOS. By reading this book, you'll be ready to use Kotlin on any and all of these platforms. Who This Book Is For This book is for complete beginners to Kotlin. No prior programming experience is necessary! Topics Covered in Kotlin Apprentice Kotlin Development Environment: See how to setup a development environment for Kotlin using IntelliJ IDEA. Numbers and Strings: These are the basic kinds of data in any app-learn how to use them in Kotlin. Making Decisions: Your code doesn't always run straight through-learn how to use conditions and loops to control program flow. Functions and Lambdas: Group your code together into reusable chunks to run and pass around. Collection Types: Discover the many ways Kotlin offers to store and organize data into collections. Building Your Own Types: Learn how to model elements in your app using classes, objects, interfaces, and enumerations. Functional

**Programming:** Learn how to use Kotlin in a functional style and how this can make your code clearer and more efficient.  
**Coroutines:** Asynchronous programming can be a complex topic on any platform, but Kotlin gives you a clear and concise approach with coroutines.  
**Kotlin Platforms and Scripting:** Learn about how Kotlin can be used on multiple platforms and see its use as a scripting language.  
**Kotlin/Native and Multiplatform:** See how to use Kotlin/Native to bring your apps to more than one platform.  
One thing you can count on: after reading this book, you'll be prepared to take advantage of Kotlin wherever you choose to use it!

**Real-World Android by Tutorials (First Edition)** Jul 12 2022  
Real-World Android by Tutorials guides you through building one professional Android app using the most important architectures and libraries. Along the way, you'll get a solid foundation in Android development concepts so you can make informed decisions about how to apply them in your own codebase.  
**Learn how to implement a real-world Android app**  
When developing a professional Android app, there are hundreds of options for libraries and possible architectures. Finding documentation is easy, but you might end up with an app structure that isn't ideal for your project.  
**Real-World Android by Tutorials** helps you implement a real-world app from scratch, addressing critical problems like finding the right architecture, making the UI responsive and appealing and implementing efficient animations.  
**Who this book is for**  
This book is for intermediate Android developers who already know the basics of the Android platform and the Kotlin language, and who are looking to build modern and professional apps using the most important libraries. If you want to create a reactive and good-looking UI and are determined not to ignore important aspects like security, this book will help.  
**Topics covered in Real-World Android by Tutorials**  
By reading this book, you'll learn about the following topics:  
**Choosing the right architecture:** Pick the right app architecture to achieve a good separation between domain and data layers, making your app easy to build and maintain.  
**Building features:** Learn how to structure your code to make it more testable.  
**Modularization:** Split your code into different modules, improving the build time and reusability of your code.  
**Animations:** Use the new Motion Editor to implement animations that make your app's UI more appealing.  
**Custom Views:** Go beyond the basics by creating a View that's specific to your app's needs.  
**Security:** Protect your app's data and code.  
**Tooling:** Mastering the right tool is a fundamental skill when creating a professional app. Learn how to use the tools to analyze your code and fix some tricky bugs.  
After reading

this book, you'll be prepared to implement your own, professional Android app.

**Android Studio 3.0 Development Essentials - Android 8 Edition** Nov 23 2020 Fully updated for Android Studio 3.0 and Android 8, the goal of this book is to teach the skills necessary to develop Android based applications using the Android Studio Integrated Development Environment (IDE), the Android 8 Software Development Kit (SDK) and the Java programming language. Beginning with the basics, this book provides an outline of the steps necessary to set up an Android development and testing environment. An overview of Android Studio is included covering areas such as tool windows, the code editor and the Layout Editor tool. An introduction to the architecture of Android is followed by an in-depth look at the design of Android applications and user interfaces using the Android Studio environment. More advanced topics such as database management, content providers and intents are also covered, as are touch screen handling, gesture recognition, camera access and the playback and recording of both video and audio. This edition of the book also covers printing, transitions and cloud-based file storage. The concepts of material design are also covered in detail, including the use of floating action buttons, Snackbars, tabbed interfaces, card views, navigation drawers and collapsing toolbars. In addition to covering general Android development techniques, the book also includes Google Play specific topics such as implementing maps using the Google Maps Android API, and submitting apps to the Google Play Developer Console. Other key features of Android Studio 3 and Android 8 are also covered in detail including the Layout Editor, the ConstraintLayout and ConstraintSet classes, constraint chains and barriers, direct reply notifications and multi-window support. Chapters also cover advanced features of Android Studio such as App Links, Instant Apps, the Android Studio Profiler and Gradle build configuration. Assuming you already have some Java programming experience, are ready to download Android Studio and the Android SDK, have access to a Windows, Mac or Linux system and ideas for some apps to develop, you are ready to get started.

[iOS Hacker's Handbook](#) Jun 18 2020 Discover all the security risks and exploits that can threaten iOS-based mobile devices iOS is Apple's mobile operating system for the iPhone and iPad. With the introduction of iOS5, many security issues have come to light. This book explains and discusses them all. The award-winning author team, experts in Mac and iOS security, examines the vulnerabilities and the internals of iOS to show how attacks can

bemitigated. The book explains how the operating system works, its overall security architecture, and the security risks associated with it, as well as exploits, rootkits, and other payloads developed for it. Covers iOS security architecture, vulnerability hunting, exploit writing, and how iOS jailbreaks work. Explores iOS enterprise and encryption, code signing and memory protection, sandboxing, iPhone fuzzing, exploitation, ROP payloads, and baseband attacks. Also examines kernel debugging and exploitation. Companion website includes source code and tools to facilitate your efforts. iOS Hacker's Handbook arms you with the tools needed to identify, understand, and foil iOS attacks.

*iPhone and iOS Forensics* Jun 30 2021 iPhone and iOS Forensics is a guide to the forensic acquisition and analysis of iPhone and iOS devices, and offers practical advice on how to secure iOS devices, data and apps. The book takes an in-depth look at methods and processes that analyze the iPhone/iPod in an official legal manner, so that all of the methods and procedures outlined in the text can be taken into any courtroom. It includes information data sets that are new and evolving, with official hardware knowledge from Apple itself to help aid investigators. This book consists of 7 chapters covering device features and functions; file system and data storage; iPhone and iPad data security; acquisitions; data and application analysis; and commercial tool testing. This book will appeal to forensic investigators (corporate and law enforcement) and incident response professionals. Learn techniques to forensically acquire the iPhone, iPad and other iOS devices. Entire chapter focused on Data and Application Security that can assist not only forensic investigators, but also application developers and IT security managers. In-depth analysis of many of the common applications (both default and downloaded), including where specific data is found within the file system.

**Mobile Forensics – Advanced Investigative Strategies** Aug 21 2020 Master powerful strategies to acquire and analyze evidence from real-life scenarios. About This Book A straightforward guide to address the roadblocks you face when doing mobile forensics. Simplify mobile forensics using the right mix of methods, techniques, and tools. Get valuable advice to put you in the mindset of a forensic professional, regardless of your career level or experience. Who This Book Is For This book is for forensic analysts and law enforcement and IT security officers who have to deal with digital evidence as part of their daily job. Some basic familiarity with digital forensics is assumed, but no



experience with mobile forensics is required. What You Will Learn Understand the challenges of mobile forensics Grasp how to properly deal with digital evidence Explore the types of evidence available on iOS, Android, Windows, and BlackBerry mobile devices Know what forensic outcome to expect under given circumstances Deduce when and how to apply physical, logical, over-the-air, or low-level (advanced) acquisition methods Get in-depth knowledge of the different acquisition methods for all major mobile platforms Discover important mobile acquisition tools and techniques for all of the major platforms In Detail Investigating digital media is impossible without forensic tools. Dealing with complex forensic problems requires the use of dedicated tools, and even more importantly, the right strategies. In this book, you'll learn strategies and methods to deal with information stored on smartphones and tablets and see how to put the right tools to work. We begin by helping you understand the concept of mobile devices as a source of valuable evidence. Throughout this book, you will explore strategies and "plays" and decide when to use each technique. We cover important techniques such as seizing techniques to shield the device, and acquisition techniques including physical acquisition (via a USB connection), logical acquisition via data backups, over-the-air acquisition. We also explore cloud analysis, evidence discovery and data analysis, tools for mobile forensics, and tools to help you discover and analyze evidence. By the end of the book, you will have a better understanding of the tools and methods used to deal with the challenges of acquiring, preserving, and extracting evidence stored on smartphones, tablets, and the cloud. Style and approach This book takes a unique strategy-based approach, executing them on real-world scenarios. You will be introduced to thinking in terms of "game plans," which are essential to succeeding in analyzing evidence and conducting investigations.

**Android Internals - Volume I** Feb 19 2023 An in-depth exploration of the inner-workings of Android: In Volume I, we take the perspective of the Power User as we delve into the foundations of Android, filesystems, partitions, boot process, native daemons and services.

**Android For Dummies** Sep 21 2020 Your comprehensive (and very friendly!) reference guide to Android phones and tablets You're used to hearing it said that the phone in your pocket or tablet by your bed has more computing power than the entire Apollo 11 space program in the 1960s (or something similarly impressive)—and this is no less true for Android devices than any other. Sounds great—but what does that actually mean you can do with them? The

new edition of *Android For Dummies* reveals all for new and experienced users alike, making it easy to get the most out of the awesome computing power of Android smartphone and tablet devices—from communications and pictures and videos to the wonderful world of 2.8+ million Google apps! Cutting through the jargon, bestselling tech author Dan Gookin puts you in touch with all the Android features you'll need to know (and many more you'll be pleased to discover!), from setup and configuration to the major features, such as text, email, internet, maps, navigation, camera, and video, as well as synching with your home computer. In addition to getting familiar with these and the latest Android 10 operating system (OS)—in both Google Pixel and Samsung versions—you'll become an expert on the best ways to share your thoughts, videos, and pictures on social media, navigate with Android Auto when driving, and maintain your files so they're orderly and easy to find. Explore Android devices, from physical functions to software and online features Communicate via email, social media, Google Duo video calls, and more Tweak your privacy settings to keep your information secure Use Android Auto when driving and see in the dark with Night Light and Dark Mode Androids may be able to land a spacecraft on the Moon (yet) but there's a whole universe waiting right there in the device at your fingertips—and this book is the perfect place to begin to explore!

Android Forensics May 30 2021 The open source nature of the platform has not only established a new direction for the industry, but enables a developer or forensic analyst to understand the device at the most fundamental level. *Android Forensics* covers an open source mobile device platform based on the Linux 2.6 kernel and managed by the Open Handset Alliance. The Android platform is a major source of digital forensic investigation and analysis. This book provides a thorough review of the Android platform including supported hardware devices, the structure of the Android development project and implementation of core services (wireless communication, data storage and other low-level functions). Finally, it will focus on teaching readers how to apply actual forensic techniques to recover data. Ability to forensically acquire Android devices using the techniques outlined in the book Detailed information about Android applications needed for forensics investigations Important information about SQLite, a file based structured data storage relevant for both Android and many other platforms.

Data Structures & Algorithms in Kotlin (Second Edition) Jan 06 2022 Learn Data Structures & Algorithms in

Kotlin!Data structures and algorithms are fundamental tools every developer should have. In this book, you'll learn how to implement key data structures in Kotlin, and how to use them to solve a robust set of algorithms.This book is for intermediate Kotlin or Android developers who already know the basics of the language and want to improve their knowledge.Topics Covered in This BookIntroduction to Kotlin: If you're new to Kotlin, you can learn the main constructs and begin writing code.Complexity: When you study algorithms, you need a way to compare their performance in time and space. Learn about the Big-O notation to help you do this.Elementary Data Structures: Learn how to implement Linked List, Stacks, and Queues in Kotlin.Trees: Learn everything you need about Trees - in particular, Binary Trees, AVL Trees, as well as Binary Search and much more.Sorting Algorithms: Sorting algorithms are critical for any developer. Learn to implement the main sorting algorithms, using the tools provided by Kotlin.Graphs: Have you ever heard of Dijkstra and the calculation of the shortest path between two different points? Learn about Graphs and how to use them to solve the most useful and important algorithms.

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