

Android Ndk

Sylvain Ratabouil

Android NDK: Beginner's Guide – Second Edition Sylvain Ratabouil,2015-04-28 Are you an Android Java programmer who needs more performance? Are you a C/C++ developer who doesn't want to bother with the complexity of Java and its out-of-control garbage collector? Do you want to create fast intensive multimedia applications or games? If you've answered yes to any of these questions then this book is for you. With some general knowledge of C/C++ development, you will be able to dive headfirst into native Android development.

Android Ndk Beginner's Guide – Second Edition Sylvain Ratabouil,2015-05-04 Android NDK is all about injecting high performance into your apps. This book will show you how to create C/C++ enabled applications and integrate them with Java. You will learn how to access native API and port libraries used in some of the most successful Android applications. Using this practical step-by-step tutorial, highlighted with comments and tricks, discover how to run C/C++ code embedded in a Java application or in a standalone application.

Android Native Development Kit Cookbook Feipeng Liu,2013-03-26 This book is written in a Cookbook style, beginning with recipes which focus on helping developers make their software/application available in Android.Android developers who want to learn Android NDK programming, or develop multimedia and games in Android NDK will benefit from this book

Mastering Android NDK Sergey Kosarevsky,Viktor Latypov,2015-09-30 Master the skills you need to develop portable, highly-functional Android applications using NDK About This Book Develop portable games using Android NDK and debug them on your desktop Familiarise yourself with different popular C++ libraries on Android and use them in your games Write multi-threaded code with graphics, sound, networking, and resource storage Who This Book Is For If you want to leverage your C++ skills in mobile development and increase the performance of your Android applications, then this is the book for you. Knowledge of C or C++ is assumed, including pointer manipulation, multi-threading, object-oriented programming concepts, and the basics of C++11. It would be an added advantage if you know how to develop applications without any IDE. What You Will LearnWhat You Will Learn Explore popular C++ libraries and use them on Android Write portable, multithreaded native networking code Create portable audio framework using OpenAL Implement portable rendering framework using OpenGL ES 3 Debug mobile applications on your desktop machine Access resources from APK archives Render text with FreeType In Detail Android NDK is used for multimedia applications that require direct access to system resources. NDK is also the key for portability, which in turn allows a reasonably comfortable development and debugging process using familiar tools such as GCC and Clang toolchains. This is a hands-on guide to extending your game development skills with Android NDK. The book takes you through many clear, step-by-step example applications to help you further explore the features of Android NDK and some popular C++ libraries and boost your productivity by debugging the development process. Through the course of this book, you will learn how to write portable multi-threaded native code, use HTTP networking in C++, play audio files, use OpenGL ES 3, and render high-quality text. Each chapter aims to take you one step closer to building your application. By the end of this book, you will be able to create an engaging, complete gaming application. Style and approach This book adopts a step-by-step approach and each chapter is based on the material from the previous ones. The book focuses on putting to your knowledge of C++ use while you develop Android applications of your own.

Pro Android C++ with the NDK Onur Cinar,2013-02-02 Android is one of the major players in the mobile phone market. Android is a mobile platform that is built on the top of Linux operating system. The native-code support on Android offers endless opportunities to application developers, not limited the functionality that is provided by Android framework. Pro Android C++ with the NDK is an advanced tutorial and professional reference for today's more sophisticated app developers now porting, developing or employing C++ and other native code to integrate into the Android platform to run sophisticated native apps and better performing apps in general. Using a game app case study, this book explores tools for troubleshooting, debugging, analyzing memory issues, unit testing, unit test code coverage, performance measurement, on native applications, as well as integrating the Android NDK toolchain into existing Autoconf, Makefile, CMake, or JAM based build systems. Pro Android C++ with the NDK also covers the following: · The Android platform, and getting up to speed with the Android NDK, and exploring the APIs that are provided in native space. An overview of Java Native Interface (JNI), and auto-generating JNI code through Simplified Wrapper and Interface Generator (SWIG). An introduction to Bionic API, native networking. native multithreading, and the C++ Standard Template Library (STL) support. Native graphics and sound using JNI Graphics, OpenGL ES, and OpenSL ES. Debugging and troubleshooting native applications using Logging, GNU Debugger (GDB), Eclipse Debugger, Valgrind, strace, and other tools. Profiling native code using GProf to identify performance bottlenecks, and NEON/SIMD optimization from an advanced perspective, with tips and recommendations.

Android NDK Game Development Cookbook Sergey Kosarevsky,Viktor Latypov,2013-11-25 A systematic guide consisting of over 70 recipes which focus on helping you build portable mobile games and aims to enhance your game development skills with clear instructions.If you are a C++ developer who wants to jump into the world of Android game development and who wants to use the power of existing C++ libraries in your existing Android Java applications, then this book is for you. You need to have basic knowledge of C or C++ including pointer manipulation, multithreading, and object-oriented programming concepts as well as some experience developing applications without using an IDE.

Android Recipes Dave Smith,Jeff Friesen,2014-02-05 Android continues to be one of the leading mobile OS and development platforms driving today's mobile innovations and the apps ecosystem. Android appears complex, but offers a variety of organized development kits to those coming into Android with differing programming language skill sets. Android Recipes: A Problem-Solution Approach, Third Edition offers more than 100 down-to-earth code recipes, and guides you step-by-step through a wide range of useful topics using complete and real-world working code examples. It's updated to include the KitKat Android 4.4 SDK as well as earlier releases. Instead of abstract descriptions of complex concepts, in Android Recipes, you'll find live code examples. When you start a new project you can consider copying and pasting the code and configuration files from this book and then modifying them for your own customization needs. Crammed with insightful instruction and helpful examples, this third edition of Android Recipes is your guide to writing apps for one of today's hottest mobile platforms. It offers pragmatic advice that will help you get the job done quickly and well. This can save you a great deal of work over creating a project from scratch! What you'll learn Use external libraries to save time and effort Boost app performance by using the Android NDK and Renderscript Design apps for performance, responsiveness, and seamlessness Send data between devices and other external hardware Persist application data and share it between applications Capture and play back various device media items Communicate with web services Get the most out of your user interface Develop a unit conversion app in the context of the command-line/Android SDK and Eclipse/Android SDK environments Who this book is for This book is a handy reference for all Android app developers. Table of Contents Getting Started with Android User Interaction Graphics and Drawing Communications and Networking Interacting with Device Hardware and Media Persisting Data Interacting with the System Working with Android NDK and Renderscript

Expert Android Studio Murat Yener,Onur Dundar,2016-08-25 Take your Android programming skills to the next level by unleashing the potential of Android Studio Expert Android Studio bridges the gap between your Android programing skills with the provided tools including Android Studio, NDK, Gradle and Plugins for IntelliJ Idea Platform. Packed with best practices and advanced tips and techniques on Android tools, development cycle, continuos integration, release management, testing, and

performance, this book offers professional guidance to experienced developers who want to push the boundaries of the Android platform with the developer tools. You'll discover how to use the tools and techniques to unleash your true potential as a developer. Discover the basics of working in Android Studio and Gradle, as well as the application architecture of the latest Android platform Understand Native Development Kit and its integration with Android Studio Complete your development lifecycle with automated tests, dependency management, continuous integration and release management Writing your own Gradle plugins to customize build cycle Writing your own plugins for Android Studio to help your development tasks. Expert Android Studio is a tool for expert and experienced developers who want to learn how to make use of the tools while creating Android applications for use on mobile devices.

Android Wireless Application Development Shane Conder, Lauren Darcey, 2010-12-16 Android™ Wireless Application Development Second Edition Lauren Darcey Shane Conder Special Edition Includes Bonus CD The start-to-finish guide to Android application development: massively updated for the newest SDKs and developer techniques! This book delivers all the up-to-date information, tested code, and best practices you need to create and market successful mobile apps with the latest versions of Android. Drawing on their extensive experience with mobile and wireless development, Lauren Darcey and Shane Conder cover every step: concept, design, coding, testing, packaging, and delivery. The authors introduce the Android platform, explain the principles of effective Android application design, and present today's best practices for crafting effective user interfaces. Next, they offer detailed coverage of each key Android API, including data storage, networking, telephony, location-based services, multimedia, 3D graphics, and hardware. Every chapter of this edition has been updated for the newest Android SDKs, tools, utilities, and hardware. All sample code has been overhauled and tested on leading devices from multiple companies, including HTC, Motorola, and ARCHOS. Many new examples have been added, including complete new applications. This new edition also adds Nine new chapters covering web APIs, the Android NDK, extending application reach, managing users, data synchronization, backups, advanced user input, and more Greatly expanded coverage of Android manifest files, content providers, app design, and testing New coverage of hot topics like Bluetooth, gestures, voice recognition, App Widgets, live folders, live wallpapers, and global search Updated 3D graphics programming coverage reflecting OpenGL ES 2.0 An all-new chapter on tackling cross-device compatibility issues, from designing for the smallest phones to the big new tablets hitting the market Even more tips and tricks to help you design, develop, and test applications for different devices A new appendix full of Eclipse tips and tricks This book is an indispensable resource for every member of the Android development team: software developers with all levels of mobile experience, team leaders and project managers, testers and QA specialists, software architects, and even marketers. About the CD-ROM The accompanying CD-ROM contains all the sample code that is presented in the book, organized by chapter, as well as a new sample application that combines many of the individual lessons learned into a single cohesive sample. This new application is referred to and discussed in Appendix G, "A Brief Walkthrough of an Android Application from Start to Finish." Programming/Java

Beginning Android C++ Game Development Bruce Sutherland, 2014-01-09 Beginning Android C++ Game Development introduces general and Android game developers like you to Android's powerful Native Development Kit (NDK). The Android NDK platform allows you to build the most sophisticated, complex and best performing game apps that leverage C++. In short, you learn to build professional looking and performing game apps like the book's case study, Droid Runner. In this book, you'll learn all the major aspects of game design and programming using the Android NDK and be ready to submit your first professional video game app to Google Play and Amazon Appstore for today's Android smartphones and tablet users to download and play. The techniques contained in this book include building a game engine, writing a renderer, and building a full game app with entities, game levels and collisions. As part of the tutorial you'll also learn about inserting perspectives using cameras and including audio in your game app.

Android Wireless Application Development Volume II Barnes & Noble Special Edition Lauren Darcey, Shane Conder, 2013-04-30 Android Wireless Application Development has earned a reputation as the most useful real-world guide to building robust, commercial-grade Android apps. To accommodate their extensive new coverage, the authors have split the book into two leaner, cleaner volumes. This Volume II focuses on advanced techniques for the entire app development cycle, covers hot topics ranging from tablet development to protecting against piracy, and demonstrates advanced techniques for everything from data integration and UI development to in-app billing. Every chapter has been thoroughly updated to reflect the latest SDKs, tools, and devices. The sample code has been completely overhauled and is available on the CD. Drawing on decades of in-the-trenches experience as professional mobile developers, the authors also provide even more tips and best practices for highly efficient development. This new edition covers Advanced app design with async processing, services, SQLite databases, content providers, intents, and notifications Sophisticated UI development, including input gathering via gestures and voice recognition Developing accessible and internationalized mobile apps Maximizing integrated search, cloud-based services, and other exclusive Android features Leveraging Android 4.0 APIs for networking, web, location services, the camera, telephony, and hardware sensors Building richer apps with 2D/3D graphics (OpenGL ES and RenderScript), animation, and the Android NDK Tracking app usage patterns with Google Analytics Streamlining testing with the Android Debug Bridge This book is an indispensable resource for every intermediate- to advanced-level Java developer now participating in Android development and for every seasoned mobile developer who wants to take full advantage of the newest Android platform and hardware. This book includes a fully functional application and two exclusive appendices: a rundown of the Java syntax commonly used in Android and a walkthrough of the application. About the CD-ROM: The accompanying CD-ROM contains all the sample code that is presented in the book, organized by chapter.

Advanced Android Application Development Joseph Annuzzi (Jr.), Lauren Darcey, Shane Conder, 2014-11-14 This book--a renamed new edition of Android Wireless Application Development, Volume II--is the definitive guide to advanced commercial-grade Android development, updated for the latest Android SDK. The book serves as a reference for the Android API.--

The Android Developer's Collection (Collection) James Steele, Nelson To, Shane Conder, 2011-12-09 The Android Developer's Collection includes two highly successful Android application development eBooks: The Android Developer's Cookbook: Building Applications with the Android SDK Android Wireless Application Development, Second Edition This collection is an indispensable resource for every member of the Android development team: software developers with all levels of mobile experience, team leaders and project managers, testers and QA specialists, software architects, and even marketers. Completely up-to-date to reflect the newest and most widely used Android SDKs, The Android Developer's Cookbook is the essential resource for developers building apps for any Android device, from phones to tablets. Proven, modular recipes take you from the absolute basics to advanced location-based services, security techniques, and performance optimization. You'll learn how to write apps from scratch, ensure interoperability, choose the best solutions for common problems, and avoid development pitfalls. Android Wireless Application Development, Second Edition, delivers all the up-to-date information, tested code, and best practices you need to create and market successful mobile apps with the latest versions of Android. Drawing on their extensive experience with mobile and wireless development, Lauren Darcey and Shane Conder cover every step: concept, design, coding, testing, packaging, and delivery. Every chapter of this edition has been updated for the newest Android SDKs, tools, utilities, and hardware. All sample code has been overhauled and tested on leading devices from multiple companies, including HTC, Motorola, and ARCHOS. Many new examples have been added, including complete new applications. In this collection, coverage includes Implementing threads, services, receivers, and other background tasks Providing user alerts Organizing user

interface layouts and views Managing user-initiated events such as touches and gestures Recording and playing audio and video Using hardware APIs available on Android devices Interacting with other devices via SMS, Web browsing, and social networking Storing data efficiently with SQLite and its alternatives Accessing location data via GPS Using location-related services such as the Google Maps API Building faster applications with native code Providing backup and restore with the Android Backup Manager Testing and debugging apps throughout the development cycle Using Web APIs, using the Android NDK, extending application reach, managing users, synchronizing data, managing backups, and handling advanced user input Editing Android manifest files, registering content providers, and designing and testing apps Working with Bluetooth, voice recognition, App Widgets, live folders, live wallpapers, and global search Programming 3D graphics with OpenGL ES 2.0

Pro Android Apps Performance Optimization Herv Guihot,2012-02-12 Today's Android apps developers are often running into the need to refine, improve and optimize their apps performances. As more complex apps can be created, it is even more important for developers to deal with this critical issue. Android allows developers to write apps using Java, C or a combination of both with the Android SDK and the Android NDK. Pro Android Apps Performance Optimization reveals how to fine-tune your Android apps, making them more stable and faster. In this book, you'll learn the following: How to optimize your Java code with the SDK, but also how to write and optimize native code using advanced features of the Android NDK such as using ARM single instruction multiple data (SIMD) instructions (in C or assembly) How to use multithreading in your application, how make best use of memory and how to maximize battery life How to use to some OpenGL optimizations and to Renderscript, a new feature in Android 3.0 (Honeycomb) and expanded in Android 4.0 (Ice Cream Sandwich). After reading and using this book, you'll be a better coder and your apps will be better-coded. Better-performing apps mean better reviews and eventually, more money for you as the app developer or your indie shop.

Android Wireless Application Development Volume II Lauren Darcey,Shane Conder,2012-07-19 Android Wireless Application Development has earned a reputation as the most useful real-world guide to building robust, commercial-grade Android apps. Now, authors Lauren Darcey and Shane Conder have systematically revised and updated this guide for the latest Android SDK and tools updates. To accommodate their extensive new coverage, they've split the book into two leaner, cleaner volumes. This Volume II focuses on advanced techniques for the entire app development cycle, including design, coding, testing, debugging, and distribution. Darcey and Conder cover hot topics ranging from tablet development to protecting against piracy and demonstrate advanced techniques for everything from data integration and UI development to in-app billing. Every chapter has been thoroughly updated to reflect the latest SDKs, tools, and devices. The sample code has been completely overhauled and is available for download on a companion website. Drawing on decades of in-the-trenches experience as professional mobile developers, the authors also provide even more tips and best practices for highly efficient development. This new edition covers Advanced app design with async processing, services, SQLite databases, content providers, intents, and notifications Sophisticated UI development, including input gathering via gestures and voice recognition Developing accessible and internationalized mobile apps Maximizing integrated search, cloud-based services, and other exclusive Android features Leveraging Android 4.0 APIs for networking, web, location services, the camera, telephony, and hardware sensors Building richer apps with 2D/3D graphics (OpenGL ES and RenderScript), animation, and the Android NDK Tracking app usage patterns with Google Analytics Streamlining testing with the Android Debug Bridge This book is an indispensable resource for every intermediate- to advanced-level Java developer now participating in Android development and for every seasoned mobile developer who wants to take full advantage of the newest Android platform and hardware. Also look for: Android Wireless Application Development, Volume I: Android Essentials (ISBN: 9780321813831)

Android Application Development for the Intel Platform Ryan Cohen,Tao Wang,2014-09-17 The number of Android devices running on Intel processors has increased since Intel and Google announced, in late 2011, that they would be working together to optimize future versions of Android for Intel Atom processors. Today, Intel processors can be found in Android smartphones and tablets made by some of the top manufacturers of Android devices, such as Samsung, Lenovo, and Asus. The increase in Android devices featuring Intel processors has created a demand for Android applications optimized for Intel Architecture: Android Application Development for the Intel® Platform is the perfect introduction for software engineers and mobile app developers. Through well-designed app samples, code samples and case studies, the book teaches Android application development based on the Intel platform—including for smartphones, tablets, and embedded devices—covering performance tuning, debugging and optimization. This book is jointly developed for individual learning by Intel Software College and China Shanghai JiaoTong University.

Learning Android Marko Gargenta,2011-03-10 Want to build apps for Android devices? This book is the perfect way to master the fundamentals. Written by an expert who's taught this mobile platform to hundreds of developers in large organizations, this gentle introduction shows experienced object-oriented programmers how to use Android's basic building blocks to create user interfaces, store data, connect to the network, and more. You'll build a Twitter-like application throughout the course of this book, adding new features with each chapter. Along the way, you'll also create your own toolbox of code patterns to help you program any type of Android application with ease. Get an overview of the Android platform and discover how it fits into the mobile ecosystem Learn about the Android stack, including its application framework, and the structure and distribution of application packages (APK) Set up your Android development environment and get started with simple programs Use Android's building blocks—Activities, Intents, Services, Content Providers, and Broadcast Receivers Learn how to build basic Android user interfaces and organize UI elements in Views and Layouts Build a service that uses a background process to update data in your application Get an introduction to Android Interface Definition Language (AIDL) and the Native Development Kit (NDK)

OpenCV Android Programming By Example Amgad Muhammad,2015-12-15 Develop vision-aware and intelligent Android applications with the robust OpenCV library About This Book This is the most up-to-date book on OpenCV Android programming on the market at the moment. There is no direct competition for our title. Based on a technology that is increasing in popularity, proven by activity in forums related to this topic. This book uniquely covers applications such as the Panoramic viewer and Automatic Selfie, among others. Who This Book Is For If you are an Android developer and want to know how to implement vision-aware applications using OpenCV, then this book is definitely for you. It would be very helpful if you understand the basics of image processing and computer vision, but no prior experience is required What You Will Learn Identify and install all the elements needed to start building vision-aware Android applications Explore image representation, colored and gray scale Recognize and apply convolution operations and filtering to deal with noisy data Use different shape analysis techniques Extract and identify interest points in an image Understand and perform object detection Run native computer vision algorithms and gain performance boosts In Detail Starting from the basics of computer vision and OpenCV, we'll take you all the way to creating exciting applications. You will discover that, though computer vision is a challenging subject, the ideas and algorithms used are simple and intuitive, and you will appreciate the abstraction layer that OpenCV uses to do the heavy lifting for you. Packed with many examples, the book will help you understand the main data structures used within OpenCV, and how you can use them to gain performance boosts. Next we will discuss and use several image processing algorithms such as histogram equalization, filters, and color space conversion. You then will learn about image gradients and how they are used in many shape analysis techniques such as edge detection, Hough Line Transform, and Hough Circle Transform. In addition to using shape analysis to find things in images, you will learn how to describe objects in images in a more robust way using different feature detectors and descriptors. By the end of this book, you will be able to make intelligent decisions using the famous Adaboost learning algorithm. Style and approach An easy-to-follow tutorial packed with hands-on examples. Each topic is

explained and placed in context, and the book supplies full details of the concepts used for added proficiency.

Android Apps with Eclipse Onur Cinar,2012-08-04 Eclipse is the most adopted integrated development environment (IDE) for Java programmers. And, now, Eclipse seems to be the preferred IDE for Android apps developers. Android Apps with Eclipse provides a detailed overview of Eclipse, including steps and the screenshots to help Android developers to quickly get up to speed on Eclipse and to streamline their day-to-day software development. This book includes the following: Overview of Eclipse fundamentals for both Java and C/C++ Development. Using Eclipse Android Development Toolkit (ADT) to develop, debug, and troubleshoot Android applications. Using Eclipse C/C++ Development Toolkit (CDT) in conjunction with Android Native Development Kit (NDK) to integrate, develop and troubleshoot native Android components through Eclipse.

Expert Android Studio Murat Yener,Onur Dundar,2016-09-13 Take your Android programming skills to the next level by unleashing the potential of Android Studio Expert Android Studio bridges the gap between your Android programing skills with the provided tools including Android Studio, NDK, Gradle and Plugins for IntelliJ Idea Platform. Packed with best practices and advanced tips and techniques on Android tools, development cycle, continuos integration, release management, testing, and performance, this book offers professional guidance to experienced developers who want to push the boundaries of the Android platform with the developer tools. You'll discover how to use the tools and techniques to unleash your true potential as a developer. Discover the basics of working in Android Studio and Gradle, as well as the application architecture of the latest Android platform Understand Native Development Kit and its integration with Android Studio Complete your development lifecycle with automated tests, dependency management, continuos integration and release management Writing your own Gradle plugins to customize build cycle Writing your own plugins for Android Studio to help your development tasks. Expert Android Studio is a tool for expert and experienced developers who want to learn how to make use of the tools while creating Android applications for use on mobile devices.

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