

Building graphics-rich and better performing
native applications

Pro
Android C++
with the NDK

Oliver Omer

Apress®



Pro Android C With The Ndk

Ian F. Darwin



Pro Android C With The Ndk:

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. *Pro Android Apps Performance Optimization* Hervé Guilhaud, 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 to make best use of memory and how to maximize battery life; How to use 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. **Pro Android Games** Vladimir Silva, 2012-11-27 In the last few years, Android has progressed with the debut of better fonts, new User Interface and Experience (UI/UX) APIs, tablet considerations, multi-touch capabilities, multi-tasking, faster performance, improved battery management techniques and now Google TV. Android Apps for the Android game app developer repertoire. With actionable, real-world source, Pro Android Games Second Edition shows you

how to build more sophisticated and addictive Android games by leveraging the power of these recent advancements found in the new Android Jelly Beans development platform as well as those you've counted on in earlier releases. Multi-touch code gives these games and their players dynamic input and exchange ability for a more realistic arcade game experience. Faster and better performance offers game players a more seamless fun arcade experience like never before on Android. There is also improved native C/C++ integration with Android's NDK as well, which makes coding, compiling, and converting both productive and efficient with gains in app performance.

NOTE: This book published previously as *Advanced Android 4 Games*. This edition covers game development for all Android SDK versions up to Jelly Bean Android SDK 4.1. *Pro Android Games* Second Edition features the following improvements:

- Updates to the latest version of the Android SDK NDK plus the latest Eclipse IDE
- Greater focus on tablets, the ever-changing device resolutions, and hardware specs
- Native game development and hardware accelerated graphics
- Bigger and better real world engines such as Quake I and II
- Plus an oldie from the previous edition: Doom
- Coverage of the new smart TV APIs
- Google TV UI/UX, multi-touch, and multi-tasking features available with Android Jelly Bean
- A look into the future with augmented reality
- Advanced techniques for improving your game playing experience including better multi-tasking, improved performance, optimization, battery management, and more
- A Quake 3D like game app case study

You'll definitely have fun and perhaps you'll even make some money. Enjoy.

Pro Android Games
Massimo Nardone, Vladimir Silva, 2015-02-14

Combining actionable real world source code with graphics, *Pro Android Games* Third Edition shows you how to build more sophisticated and addictive Android game apps with minimum effort. Harness the power of the latest Android 5.0 SDK to bring countless legendary action-packed PC games to the Android platform. With actionable real world source code, this one-of-a-kind book shows you how to build more sophisticated and addictive Android game apps by leveraging the power of the recent advancements found in the new Android 5.0 software development kit as well as those you've counted on in earlier releases. Multi-touch code gives these games and their players dynamic input and exchange ability for a more realistic arcade game experience. Faster and better performance offers Android game players a more seamless fun arcade experience like never before. There is also improved native C/C++ integration with Android's NDK as well, which makes coding, compiling, and converting both productive and efficient with gains in app performance.

Pro Android Games Third Edition features the following improvements:

- Updates to the latest version of the Android SDK NDK plus the latest Android Studio and Eclipse IDEs
- Greater focus on tablets, ever-changing device resolutions, and hardware specs
- Native game development and hardware accelerated graphics
- Bigger and better real world engines such as Quake I and II
- Plus an oldie from the previous edition: Doom
- Coverage of the new Android TV SDK APIs
- UI/UX, multi-touch, and multi-tasking features available with the Android 5.0 release
- Advanced techniques for improving your game playing experience including better multi-tasking, improved performance, optimization, battery management, and more
- A Quake 3D like game app case study

You'll definitely have fun and perhaps you'll even make some money. Enjoy.

In the last few years, Android has progressed

with the debut of better fonts new User Interface and Experience UI UX APIs tablet considerations multi touch capabilities multi tasking faster performance improved battery management techniques and now the new Android TV SDK Apps for the Android game app developer repertoire Pro Android with Kotlin Peter Späth,2018-09-03 Develop Android apps with Kotlin to create more elegant programs than the Java equivalent This book covers the various aspects of a modern Android app that professionals are expected to encounter There are chapters dealing with all the important aspects of the Android platform including GUI design file and data handling coping with phone calls multimedia apps interaction with location and mapping services monetizing apps and much more Pro Android with Kotlin is an invaluable source for developers wanting to build real world state of the art apps for modern Android devices What You Will Learn Integrate activities such as intents services toasts and more into your Android apps Build UIs in Android using layouts widgets lists menus and action bars Deal with data in your Android apps using data persistence and cloud access Design for different Android devices Create multimedia apps in Android Secure deploy and monetize your Android apps Who This Book Is For Professional Android app developers OpenGL ES 3.0 Programming Guide Dan Ginsburg,Budirijanto Purnomo,Dave Shreiner,Aaftab Munshi,2014-02-28 OpenGL ES TM is the industry s leading software interface and graphics library for rendering sophisticated 3D graphics on handheld and embedded devices The newest version OpenGL ES 3 0 makes it possible to create stunning visuals for new games and apps without compromising device performance or battery life In the OpenGL ESTM 3 0 Programming Guide Second Edition the authors cover the entire API and Shading Language They carefully introduce OpenGL ES 3 0 features such as shadow mapping instancing multiple render targets uniform buffer objects texture compression program binaries and transform feedback Through detailed downloadable C based code examples you ll learn how to set up and program every aspect of the graphics pipeline Step by step you ll move from introductory techniques all the way to advanced per pixel lighting and particle systems Throughout you ll find cutting edge tips for optimizing performance maximizing efficiency with both the API and hardware and fully leveraging OpenGL ES 3 0 in a wide spectrum of applications All code has been built and tested on iOS 7 Android 4 3 Windows OpenGL ES 3 0 Emulation and Ubuntu Linux and the authors demonstrate how to build OpenGL ES code for each platform Coverage includes EGL API communicating with the native windowing system choosing configurations and creating rendering contexts and surfaces Shaders creating and attaching shader objects compiling shaders checking for compile errors creating linking and querying program objects and using source shaders and program binaries OpenGL ES Shading Language variables types constructors structures arrays attributes uniform blocks I O variables precision qualifiers and invariance Geometry vertices and primitives inputting geometry into the pipeline and assembling it into primitives 2D 3D Cubemap Array texturing creation loading and rendering texture wrap modes filtering and formats compressed textures sampler objects immutable textures pixel unpack buffer objects and mipmapping Fragment shaders multitexturing fog alpha test and user clip planes Fragment operations scissor

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Smartphone Energy Consumption Sasu Tarkoma, Matti Siekkinen, Emil Lagerspetz, 2014-08-07 Get the key measurement modeling and analytical tools for developing energy aware and efficient systems and applications with this practical guide

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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.

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.

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