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Android NDK

Discover the native side of Android and inject the power of C/C++ in your applications

Beginner's Guide

Sylvain Ratabouil

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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 Unity 5 for Android Essentials Valera Cogut, 2015-08-05 A fast paced guide to building impressive games and applications for Android devices with Unity 5 About This Book Design beautiful effects animations physical behaviors and other different real world features for your Android games and applications Optimize your project and any other real world projects for Android devices Follows a tutorial based approach to learning the best practices for accessing Android functionality rendering high end graphics and expanding your project using Asset Bundles Who This Book Is For This book is perfect for competent Unity developers who want to learn how to develop optimize and publish games for Android devices in a quick and easy manner This book assumes basic knowledge of game design concepts and or some experience with other game technologies such as Unreal Engine 4 CryEngine or GameMaker What You Will Learn Discover tips and tricks to optimize Unity scripts Create Java and native C plugins for the Android platform Access Android features and sensors inside the Unity 5 engine Render high quality graphics and optimize Cg shaders Play Legacy and Mecanim animations in Unity 5 Download new assets and code behavior while your game is running on an Android device in order to expand your game in real time Debug your games and applications on Android devices using the Unity Profiler tool In Detail Unity is a very popular and effective technology for creating 2D and 3D games and applications The Unity rendering engine provides great real time rendering of high quality graphics without too much cost and effort It boasts industry leading multi platform support and world class monetization and retention services for mobile games making it the first choice for many game developers across the world Unity 5 is a great starting point for game developers looking to develop stunning and robust games Starting with a refresher on the basics of Unity 5 this book will take you all the way through to creating your first custom game By the end of the book you will understand how to work with all the aspects of Unity 5 You will quickly explore all the major key features of the Unity 5 engine and learn to implement real world Android game and application features in practice We begin by introducing how to set up the Android SDK on Windows and Mac OS X and configure Unity 5 settings for the Android platform As you progress through the chapters you will learn to implement innovative and user friendly features with the aid of real world examples You will explore how to render high quality graphics with physically based shaders and global illumination to enhance your project s performance Building on this you will then learn to transform your native C and JavaScript code into Unity scripts Best practices to improve your Android games will also be discussed to help you create games fast and efficiently Finally putting together all these concepts you will learn to create your own Android game from scratch This book will teach you how to harness the benefits of different tools to become proficient at game design and development processes Style and approach This book is a simple and fast paced guide that helps you through the process of creating real world Android games and applications with the Unity engine using step by step and practical examples that progressively build upon each other

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 Wearable Programming](#) Steven F. Daniel,2015-07-30 This book will introduce you to the very popular Android Wear platform with hands on instructions for building Android Wear applications You will start with an introduction to the architecture of Android followed by an in depth look at the design of Android applications and user interfaces using Android Studio You will see how to create basic and custom notifications for your apps and synchronize data from the wearable device with the handheld mobile device More advanced topics such as intents the Gradle build configuration and the implementation of build variants and packaging and deploying from a single project code base are also covered By the end of this book you will have a good understanding of wearable programming and be confident enough to write programs for building Android applications that run on Android Wear *Unity Android Game Development by Example Beginner's Guide* Thomas Finnegan,2013-12-20 Unity Android Game Development by Example Beginner s Guide consists of different game application examples No prior experience with programming Android or Unity is required You will learn everything from scratch and will have an organized flow of information specifically designed for complete beginners to Unity Great for developers new to Unity Android or both this book will walk you through everything you need to know about game development for the Android mobile platform No experience with programming Android or Unity is required Most of the assets used in each chapter project are provided with the book but it is assumed that you have some access to basic image and model creation software You will also need access to an Android powered device

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