



Quick answers to common problems

Android NDK Game Development Cookbook

Over 70 exciting recipes to help you develop mobile games for Android in C++

Sergey Kosarevsky
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Android Ndk Game Development Cookbook Latypov Viktor

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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

Vulkan 3D Graphics Rendering Cookbook Sergey

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relying on premade rendering engines you'll find this guide particularly useful

3D Graphics Rendering Cookbook Sergey Kosarevsky, Viktor Latypov, 2021-08-25 Build a 3D rendering engine from scratch while solving problems in a step by step way with the help of useful recipes Key Features Learn to integrate modern rendering techniques into a single performant 3D rendering engine Leverage Vulkan to render 3D content use AZDO in OpenGL applications and understand modern real time rendering methods Implement a physically based rendering pipeline from scratch in Vulkan and OpenGL Book Description OpenGL is a popular cross language cross platform application programming interface API used for rendering 2D and 3D graphics while Vulkan is a low overhead cross platform 3D graphics API that targets high performance applications 3D Graphics Rendering Cookbook helps you learn about modern graphics rendering algorithms and techniques using C programming along with OpenGL and Vulkan APIs The book begins by setting up a development environment and takes you through the steps involved in building a 3D rendering engine with the help of basic yet self contained recipes Each recipe will enable you to incrementally add features to your codebase and show you how to integrate different 3D rendering techniques and algorithms into one large project You'll also get to grips with core techniques such as physically based rendering image based rendering and CPU GPU geometry culling to name a few As you advance you'll explore common techniques and solutions that will help you to work with large datasets for 2D and 3D rendering Finally you'll discover how to apply optimization techniques to build performant and feature rich graphics applications By the end of this 3D rendering book you'll have gained an improved understanding of best practices used in modern graphics APIs and be able to create fast and versatile 3D rendering frameworks What you will learn Improve the performance of legacy OpenGL applications Manage a substantial amount of content in real time 3D rendering engines Discover how to debug and profile graphics applications Understand how to use the Approaching Zero Driver Overhead AZDO philosophy in OpenGL Integrate various rendering techniques into a single application Find out how to develop Vulkan applications Implement a physically based rendering pipeline from scratch Integrate a physics library with your rendering engine Who this book is for This book is for 3D graphics developers who are familiar with the mathematical fundamentals of 3D rendering and want to gain expertise in writing fast rendering engines with advanced techniques using C libraries and APIs A solid understanding of C and basic linear algebra as well as experience in creating custom 3D applications without using premade rendering engines is required [Libgdx Cross-platform Game Development Cookbook](#) David Saltares Márquez, Alberto Cejas Sánchez, 2014-10-29 If you want to make cross platform games without the hassle and dangers of writing platform specific code or If you are a game programmer who may have some experience with Java and you want to learn everything you need to know about Libgdx to produce awesome work this is the book for you To take full advantage of the recipes in this book you are expected to be familiar with Java with good game programming knowledge [Torque 3D Game Development Cookbook](#) David Wyand, 2013-01-01 Cookbook packed with recipes to help you create amazing 3D games with Torque The recipes provide clear step by step instruction and

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understood easily by anyone The topics included are broken down into individual chapters so you can refer to the specific chapter to get answers on the subject you are interested in

Lua Game Development Cookbook Mrio Kasuba, Mario Ka Uba, 2015-07-28 This book is for all programmers and game enthusiasts who want to stop dreaming about creating a game and actually create one from scratch The reader should know the basics of programming and using the Lua language Knowledge of the C C programming language is not necessary but it s strongly recommended in order to write custom Lua modules extending game engine capabilities or to rewrite parts of the Lua code into a more efficient form Algebra and matrix operations are required in order to understand advanced topics in Chapter 4 Graphics Legacy Method with OpenGL 1 x 2 1 and Chapter 5 Graphics Modern Method with OpenGL 3 0 Sample demonstrations are coupled with binary libraries for Windows and Linux operating systems for convenience

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