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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

[PACKT]
PUBLISHING

Android Ndk Beginner S Guide Packt Publishing

John Horton



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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

Frontiers of Energy and Environmental Engineering Wen-Pei Sung, Jimmy C.M. Kao, Ran Chen, 2012-11-23 Frontiers of Energy and Environmental Engineering brings together 192 peer reviewed papers presented at the 2012 International Conference on Frontiers of Energy and Environment Engineering held in Hong Kong December 11-13 2012 The aim of the conference was to provide a platform for researchers engineers and academics as well as industry professionals from all over the world to present their activities in the field of energy and environmental engineering as well as share research results This proceedings volume promotes the development of the field of energy and environmental engineering strengthening international academic cooperation and intercommunication and encouraging the fruitful exchange of research ideas and results The book provides a broad overview of the latest advances made in the field of energy and environmental engineering Topics covered include energy efficiency and energy management energy exploration and exploitation power generation technologies water pollution and protection air pollution and protection and environmental engineering and management among others This volume will be of interest to a global audience consisting of academic researchers industry professionals and policy makers active in the wide field of energy and environmental engineering

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

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 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 **Android Programming for Beginners** John Horton,2015-12-31 Learn all the Java and Android skills you need to start making powerful mobile applications About This Book 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 three real world apps and over 40 mini apps throughout the book Who This Book Is For 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 to learn Android you must know java If so Android Programming for Beginners is for you You don t need any programming experience to follow along with this book just a

computer and a sense of adventure

What You Will Learn

- Master the fundamentals of coding Java for Android
- 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

In Detail

Android is the most popular OS in the world. There are millions of devices accessing tens of thousands of applications. It is many people's entry point into the world of technology; it is an operating system for everyone. Despite this, the entry fee to actually make Android applications is usually a computer science degree or five years worth of Java experience. *Android Programming for Beginners* will be your companion to create Android applications from scratch, whether you're looking to start your programming career, make an application for work, be reintroduced to mobile development or are just looking to program for fun. We will introduce you to all the fundamental concepts of programming in an Android context, from the Java basics to working with the Android API. All examples 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, make location aware apps with Google Maps integration and store your user's data with SQLite. In addition, you'll see how to make your apps multilingual, capture images from a device's camera 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.

Style and approach

With more than 40 mini apps to code and run, *Android Programming for Beginners* is a hands-on guide to learning Android and Java. Each example application demonstrates a different aspect of Android programming. Alongside these mini apps, we push your abilities by building three larger applications to demonstrate Android application development in context.

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 Learn

- Explore different popular C libraries and import some of them to Android
- Write portable, multithreaded native code
- Create applications that play audio with OpenAL
- Implement gesture recognition in your games and applications
- Debug mobile applications on your desktop
- Extract resources from APK archives
- Render text with FreeType and also use OpenGL ES

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

The Beginner's Guide to Android Game Development James S. Cho, 2014 Android Game Development Made Easy If you've always wanted to make Android games but didn't know where to start this book is for you Whether you are an absolute beginner with no programming experience or an experienced Java developer wanting to get started with game development this comprehensive book will help you accomplish your goals and teach you how to build your own games from scratch no game engines needed In this beginner friendly guide you will find focused step by step approaches designed to help you learn and practice one fundamental concept at a time You will study Java and write object oriented applications You will experiment with the building blocks of Android and create fun interactive 2D games with touch controls You will even learn how to integrate social features such as a global leaderboard and publish your game to be shared with the billion Android users across the world This book provides access to an extensive library of sample Java and Android game projects via its companion website so that you can continue learning on your own and grow as a game programmer With this up to date guide in your hand you will be able to successfully navigate common pitfalls and get up and running with your own projects in no time Tested on Android Lollipop All the code in the book has been tested on the Android Lollipop SDK 5.0 and is available under the open source MIT license at the book's companion site

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Android Upskill Publishing, 2016-06-18 Learn to Program Android Apps in Less Than 24 Hours This Book Android Programming Android App Development teaches you everything you need to become an Android App Developer from scratch This book explains How You Can Get Started with Android App Programming by explaining the System Software Requirements Creating the environment for Java Android Studio Android SDK Manager Most Importantly This Book Guides

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Android Programming for Beginners John Horton, 2021-04-09 Learn the Java and Android skills you need to start developing powerful mobile applications with the help of actionable steps Key Features Kick start your Android programming career or just have fun publishing apps to the Google Play marketplace Get a first principles introduction to using Java and Android and prepare to start building your own apps from scratch Learn by example by building four real world apps and dozens of mini apps Book Description Do you want to make a career in programming but don t know where to start Do you have a great idea for an app but don t know how to make it a reality Or are you worried that you ll have to learn Java programming to become an Android developer Look no further This new and expanded third edition of Android Programming for Beginners will be your guide to creating Android applications from scratch The book starts by introducing you to all the fundamental concepts of programming in an Android context from the basics of Java to working with the Android API You ll learn with the help of examples that use up to date API classes and are created within Android Studio the official Android development environment that helps supercharge your mobile application development process After a crash course on the key programming concepts you ll explore Android programming and get to grips with creating applications with a professional standard UI using fragments and storing user data with SQLite This Android Java book also shows you how you can make your apps multilingual draw on the screen with a finger and work with graphics sound and animations By the end of this Android programming book you ll be ready to start building your own custom applications in Android and Java What you will

learnUnderstand the fundamentals of coding in Java for AndroidInstall and set up your Android development environmentBuild functional user interfaces with the Android Studio visual designerAdd user interaction data captures sound and animation to your appsManage your apps data using the built in Android SQLite databaseExplore the design patterns used by professionals to build top grade applicationsBuild real world Android applications that you can deploy to the Google Play marketplaceWho this book is for This Android book is for you if you are completely new to Java Android or programming and want to get started with Android app development If you have experience of using Java on Android this book will serve as a refresher to help you advance your knowledge and make progress through the early projects covered in the book

Android Programming with Kotlin for Beginners John Horton,2019-04-30 Build smart looking Kotlin apps with UI and functionality for the Android platform Key FeaturesStart your Android programming career or just have fun publishing apps on Google Play marketplaceThe first principle introduction to Kotlin through Android to start building easy to use appsLearn by example and build four real world apps and dozens of mini appsBook Description Android is the most popular mobile operating system in the world and Kotlin has been declared by Google as a first class programming language to build Android apps With the imminent arrival of the most anticipated Android update Android 10 Q this book gets you started building apps compatible with the latest version of Android It adopts a project style approach where we focus on teaching the fundamentals of Android app development and the essentials of Kotlin by building three real world apps and more than a dozen mini apps The book begins by giving you a strong grasp of how Kotlin and Android work together before gradually moving onto exploring the various Android APIs for building stunning apps for Android with ease You will learn to make your apps more presentable using different layouts You will dive deep into Kotlin programming concepts such as variables functions data structures Object Oriented code and how to connect your Kotlin code to the UI You will learn to add multilingual text so that your app is accessible to millions of more potential users You will learn how animation graphics and sound effects work and are implemented in your Android app By the end of the book you will have sound knowledge about significant Kotlin programming concepts and start building your own fully featured Android apps What you will learnLearn how Kotlin and Android work togetherBuild a graphical drawing app using Object Oriented Programming OOP principlesBuild beautiful practical layouts using ScrollView RecyclerView NavigationView ViewPager and CardViewWrite Kotlin code to manage an apps data using different strategies including JSON and the built in Android SQLite databaseAdd user interaction data captures sound and animation to your appsImplement dialog boxes to capture input from the userBuild a simple database app that sorts and stores the user s dataWho this book is for This book is for people who are new to Kotlin Android and want to develop Android apps It also acts as a refresher for those who have some experience in programming with Android and Kotlin **Beginner's Guide to Android App Development** Serhan Yamacli,2017-06-30 This book covers Android app design fundamentals in Android Studio using Java programming language The author assumes you have no

experience in app development The book starts with the installation of the required development environment and setting up the emulators Then the simplest Hello World app is developed step by step In the next chapter basics of the Java programming language are given with practical examples Screenshots and code snippets are clearly given in the book to guide the reader After the Java lecture 7 complete Android apps are developed again by step by step instructions Each code line is explained As the reader follows the development of the example apps he she will learn designing user interfaces connecting interface objects to code developing efficient Java code and testing the app on emulators and real devices The last chapter explains the installation of the Unity game engine developing a simple 2D platform game in Unity setting up touch controls for Android environment and exporting the game as a standalone apk file ready to be installed on Android devices Sample apps developed in this book are as follows 1 Headlight app Learn the basics of app development and use buttons in your code 2 Body mass index BMI calculator app Using input boxes performing calculations and displaying the results on the screen 3 Simple dice roller app Using random number generator functions including images in your project displaying images on the screen and changing the displayed image programmatically 4 The compass app Accessing the magnetic field sensor setting required permissions extracting the direction angle and animating a compass figure 5 Show my location app Creating a map project setting required permissions accessing GPS device and showing real time location on the map 6 S O sender app Adding SMS functionality setting required permissions and sending real time location using SMS 7 Development of a 2D platform game Installing Unity game engine developing the visual part of the game implementing the game logic in the code setting up touch controls and exporting the game as a standalone apk file This book includes 237 figures and 130 code snippets that are used to explain app development concepts clearly Full resolution colour figures and complete project files can be downloaded from the book s companion website www.yamaclis.com/android Android App Development for Beginners Thompson Carter,2024-11-12 Android App Development for Beginners is the ultimate guide for anyone looking to start a career in app development or build their first Android application Authored by Thompson Carter this book offers a step by step approach to learning Android development covering everything from setting up your development environment to publishing your app on the Google Play Store Dive into Android Studio the essential integrated development environment IDE for Android and get hands on experience with Java and Kotlin the two primary languages for Android development This book is structured to help you learn UI design data storage user interaction networking and Firebase integration Each chapter is crafted with practical code examples exercises and real world applications to reinforce learning and bring your knowledge to life By the end you ll be able to create user centric high performance apps and confidently tackle the process of app optimization and Google Play publishing Whether you re a beginner with no coding experience or an aspiring developer familiar with object oriented programming this guide is tailored to take you from the basics to advanced topics making it accessible engaging and packed with industry insights Start building your skills in mobile app development today with

Android App Development for Beginners and unlock the potential to reach millions of Android users worldwide *Android Ndk Game Development Cookbook* Sergey Kosarevsky, Latypov Viktor, 2013-11 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 for Beginners** Pratiyush Guleria, 2019-09-20 Build Android apps starting from zero programming experience DESCRIPTION The book has been written in such a way that the concepts are explained in detail giving adequate emphasis on examples To make clarity of the programming examples logic is explained properly as well as discussed using comments in program itself The book covers the topics right from the Introduction of the Android Studio and writing programs into it The Android topics are discussed in detail taking into consideration the practical examples from simple to complex for the better understanding of students Various sample practical exercises are included in the Book and their solutions so as to give students the basic idea of developing apps in Android The examples given in book are user focused and have been highly updated including topics figures and examples The book features more on practical approach with more examples covering topics from simple to complex one addressing many of the core concepts required at the beginner level KEY FEATURES Comprehensive coverage of Android lying more stress on examples The book covers the topics in simple and easy form taking practical examples in each topic Simple language crystal clear approach straight forward comprehensible presentation Adopting user friendly classroom lecture style The concepts are duly supported by several examples The book cover the topics in a manner which fulfilled the skill gap among industry and academia WHAT WILL YOU LEARN Toasts Activity Dialogs Intent Android Life Cycle Menus Asynchronous Task RecyclerView Broadcast Receiver and Notification Shared Preferences Sqlite Database Alarm Manager Android Services Testing Activity Publishing App WHO THIS BOOK IS FOR Students pursuing BE BSc ME MSc BTech MTech in Computer Science Table of Contents 1 Introduction 2 Toast 3 Activity 4 Dialogs 5 Intent 6 Android Life Cycle 7 Menus 8 Asynchronous Task 9 RecyclerView 10 Broadcast Receiver and Notification 11 Shared Preferences 12 Sqlite Database 13 Alarm manager 14 Android Services 15 Testing Activity 16 Publishing App 17 Appendix I 18 Exercise 1 19 Appendix II

Android Programming for Beginners John Horton, 2018-10-31 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:

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- Build functional user interfaces with the Android Studio visual designer.
- Add user interaction, data captures, sound, and animation to your apps.
- Manage your app's 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.

How to Build Android Apps with Kotlin Alex Forrester, Eran Boudjnah, Alexandru Dumbravan, Jomar Tigcal, 2023-05-02. Unleash the power of Android programming to build scalable and reliable apps using industry best practices. Purchase of the print or Kindle book includes a free PDF eBook. Key Features: Build apps with Kotlin, Google's preferred programming language for Android development. Unlock solutions to development challenges with guidance from experienced Android professionals. Improve your apps by adding valuable features that make use of advanced functionality. Book Description: Looking to kick start your app development journey with Android 13 but don't know where to start? *How to Build Android Apps with Kotlin* is a comprehensive guide that will help jump start your Android development practice. This book starts with the fundamentals of app development, enabling you to utilize Android Studio and Kotlin to get started with building Android projects. You'll learn how to create apps and run them on virtual devices through guided exercises. Progressing through the chapters, you'll delve into Android's RecyclerView to make the most of lists, images, and maps, and see how to fetch data from a web service. You'll also get to grips with testing, learning how to keep your architecture clean, understanding how to persist data, and gaining basic knowledge of the dependency injection pattern. Finally, you'll see how to publish your apps on the Google Play store. You'll work on realistic projects that are split up into bite-size exercises and activities, allowing you to challenge yourself in an enjoyable and attainable way. You'll build apps to

create quizzes read news articles check weather reports store recipes retrieve movie information and remind you where you parked your car By the end of this book you ll have the skills and confidence to build your own creative Android applications using Kotlin What you will learn Create maintainable and scalable apps using Kotlin Understand the Android app development lifecycle Simplify app development with Google architecture components Use standard libraries for dependency injection and data parsing Apply the repository pattern to retrieve data from outside sources Build user interfaces using Jetpack Compose Explore Android asynchronous programming with Coroutines and the Flow API Publish your app on the Google Play store Who this book is for If you want to build Android applications using Kotlin but are unsure of how and where to begin then this book is for you To easily grasp the concepts in this book a basic understanding of Kotlin or experience in a similar programming language is a must

How to Build Android Applications with Kotlin Alex Forrester, Eran Boudjnah, Alexandru Dumbravan, Jomar Tigcal, 2025-09-05 Utilize Android programming to build scalable and reliable apps using industry best practices with practical guidance from a team of Android experts with over 40 years of combined experience Get a free PDF copy AI Assistant and Next Gen Reader with your book Key Features Build real world Android apps with Kotlin and the Jetpack Compose UI framework Leverage the latest libraries to accelerate your Android development Overcome development challenges with tips and tricks from experienced Android professionals Get With Your Book PDF Copy AI Assistant and Next Gen Reader Free Book Description Written by four veteran developers with 60 years of collective experience this updated third edition will jumpstart your Android development journey focusing on Kotlin libraries and Jetpack Compose Google s powerful declarative UI framework You ll learn the fundamentals of app development enabling you to use Android Studio as well as get to grips with Jetpack Compose to create your first screens build apps to run them on virtual devices through guided exercises and implement Jetpack Compose s layout groups to make the most of lists images and maps The book has been updated with Kotlin s powerful networking and coroutines libraries to help you fetch data in the background from a web service and manage displaying the data using Kotlin flows You ll learn about testing creating clean architecture and persisting data as well as exploring the dependency injection pattern and learning how to publish your apps on the Google Play Store You ll also work on realistic projects split up into bite size exercises and activities along with building apps to create quizzes read news articles check weather reports store recipes retrieve movie information and remind you where you parked your car By the end of this book you ll have gained the skills and confidence to build your own creative Android apps using Kotlin What you will learn Create maintainable and scalable apps using Kotlin Grasp Android asynchronous programming with coroutines and the Flow API Simplify app development with Google architecture components Apply MVVM and Repository architecture patterns to standardize retrieving and displaying data from outside sources Increase app stability and robustness with unit and integration tests Use standard libraries for dependency injection networking data parsing and persistence Publish your app on the Google Play Store Who this book is for This book is for

beginners as well as intermediate level developers with no prior experience in Android app development Basic knowledge of the Kotlin programming language or experience in a similar programming language along with a willingness to brush up on Kotlin is required *How to Build Android Apps for Beginners* StoryBuddiesPlay,2025-05-06 Unlock the world of Android app development with this step by step beginner s guide Whether you re new to programming or looking to expand your skills this book walks you through setting up your environment designing user interfaces writing code in Kotlin and Java handling user input testing debugging and publishing your app on the Google Play Store Packed with practical examples clear explanations and expert tips it s the perfect resource to help you build your first Android app confidently and efficiently Android app development beginner Android tutorial how to build Android apps Android Studio guide Kotlin for beginners Java Android programming mobile app development publish Android app Android UI design Android app lifecycle

Android Programming For Beginners Joseph Joyner,2015-02-10 Mobile application development is now the hottest trend in the programming world In this book you will learn Android Programming Basics

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