

## Bookmark File PDF Kotlin Programming: The Big Nerd Ranch Guide

# *Kotlin Programming: The Big Nerd Ranch Guide*

A fast-paced, thorough introduction to modern C++ written for experienced programmers. After reading C++ Crash Course, you'll be proficient in the core language concepts, the C++ Standard Library, and the Boost Libraries. C++ is one of the most widely used languages for real-world software. In the hands of a knowledgeable programmer, C++ can produce small, efficient, and readable code that any programmer would be proud of. Designed for intermediate to advanced programmers, C++ Crash Course cuts through the weeds to get you straight to the core of C++17, the most modern

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revision of the ISO standard. Part 1 covers the core of the C++ language, where you'll learn about everything from types and functions, to the object life cycle and expressions. Part 2 introduces you to the C++ Standard Library and Boost Libraries, where you'll learn about all of the high-quality, fully-featured facilities available to you. You'll cover special utility classes, data structures, and algorithms, and learn how to manipulate file systems and build high-performance programs that communicate over networks. You'll learn all the major features of modern C++, including:

- Fundamental types, reference types, and user-defined types
- The object lifecycle including storage duration, memory management, exceptions, call stacks, and the RAII paradigm
- Compile-time polymorphism with templates and run-time polymorphism with

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virtual classes • Advanced expressions, statements, and functions • Smart pointers, data structures, dates and times, numerics, and probability/statistics facilities • Containers, iterators, strings, and algorithms • Streams and files, concurrency, networking, and application development With well over 500 code samples and nearly 100 exercises, C++ Crash Course is sure to help you build a strong C++ foundation.

The Android Tablet Developer ' s Cookbook helps experienced Android developers leverage new Android 4.2.2 features to build compelling applications that take full advantage of tablets ' bigger screens, dual-core processors, and larger, faster memory. Tightly focused on Android 4.2.2 ' s tablet-related capabilities, it presents an unparalleled library of easy-

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to-reuse code for solving real-world problems. Everything 's organized in modular, standalone sections to help you quickly find what you 're looking for, even when you need to use multiple classes together. Throughout, B.M. Harwani clearly explains how Android tablet apps are unique, how to leverage Android skills and libraries you 've already mastered, and how to efficiently integrate tablet APIs and features. From media to NFC, porting phone apps to integrating analytics, this book will help you do it fast and do it right. Coverage includes

- Providing user control via the system clipboard, notifications, and pending intents
- Supporting drag and drop for both text and images
- Displaying navigation and core app functionality via the ActionBar
- Using widgets to present calendars, number pickers, image stacks, and options lists

Delivering powerful

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graphics via animation and hardware accelerated 2D  
Recording audio, video, and images Responding to sensors  
Pairing tablets to other Bluetooth-enabled Android devices or  
PCs Using Wi-Fi Direct to share media Creating custom  
home screen widgets Making the most of threads and the  
AsyncTask class Exchanging data via JSON Displaying and  
browsing Web content via the WebView widget Creating  
fragments dynamically at runtime and implementing  
communication between fragments Porting apps from  
smartphones to tablets and building new apps for both  
Supporting older versions of the Android SDK Sharing data  
and messages via NFC with Android Beam Integrating app  
analytics and tracking Turn to The Android Tablet Developer ' s  
Cookbook for proven, expert answers--and the code you

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need to implement them. It's all you need to jump-start any project and quickly create compelling Android tablet apps that sell!

Build Beautiful Apps With Jetpack Compose Jetpack Compose is hyping up everyone in the Android UI toolkit world. This completely new and modern solution to building declarative user interfaces provides more opportunity than ever to create beautiful, reactive and animated apps. However, because of its early-in-development status, Jetpack Compose is missing one of the most important pieces of successful software: detailed documentation. That's why we've prepared a whole book's worth of documentation for you! Jetpack Compose By Tutorials is here to help, by showing you exactly how Compose works, what its

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fundamental components are and how you can use them to build complex real-world apps!Who this book is forThis book is for all Android developers who have experience with the legacy UI Toolkit through XML and View components, but who are looking for a fresh, reusable, clean and easy-to-use solution to reduce their boilerplate code while building stunning user interfaces.Topics covered in Jetpack Compose by TutorialsFundamentals: Core Jetpack Compose elements and functionsCombining components: Mixing different layouts and building beautiful interfacesState Management: State wrappers, LiveData observables and UI recompositionUI Styling: Modifiers for size, shape, colors, background, padding and alignmentUser Interaction: Different click, touch and scroll listeners and their handlersAnimations: State

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changes, value animations and complex transitions One thing you can count on: After reading this book, you'll be prepared to tackle any design specification and build it in your Android apps using Jetpack Compose. You'll make your apps really stand out by adding different modifiers and Material Design components, as well as animations.

What will you learn from this book? If you have an idea for a killer Android app, this book will help you build your first working application in a jiffy. You ' ll learn hands-on how to structure your app, design interfaces, create a database, make your app work on various smartphones and tablets, and much more. It ' s like having an experienced Android developer sitting right next to you! All you need is some Java know-how to get started. Why does this book look so different? Based



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on the latest research in cognitive science and learning theory, Head First Android Development uses a visually rich format to engage your mind, rather than a text-heavy approach that puts you to sleep. Why waste your time struggling with new concepts? This multi-sensory learning experience is designed for the way your brain really works.

Beginning Android Development With Kotlin

Build Android apps starting from zero programming experience with the new Kotlin programming language

Develop Mobile Apps Using Java and Eclipse

Cocoa Programming for OS X

Android Apps with App Inventor

**What will you learn from this book? If**

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**you have an idea for a killer Android app, this fully revised and updated edition will get you up and running in a jiffy. You'll go beyond syntax and how-to manuals and learn how to think like a great Android developer. This hands-on book teaches you everything from designing user interfaces to building multi-screen apps that persist data in a database. It covers the latest features of Android Jetpack, including Jetpack Compose. It's like having an experienced**

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**Android developer sitting right next to you! If you have some Kotlin know-how, you're ready to get started. Why does this book look so different? Based on the latest research in cognitive science and learning theory, Head First Android Development uses a visually rich format to engage your mind rather than a text-heavy approach that puts you to sleep. Why waste your time struggling with new concepts? This multisensory learning experience is designed for the**

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**way your brain really works.**

**Google has officially announced Kotlin as a supported language to write Android Apps. These are amazing news for Android developers, which now have the ability to use a modern and powerful language to make their job easier and funnier. But this comes with other responsibilities. If you want to be a good candidate for new Android opportunities, Kotlin is becoming a new need most companies will ask for. So it's your time**

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**to start learning about it!And "Kotlin for Android Developers" is the best tool. Recommended by both Google and JetBrains, this book will guide through the process of learning all the new features that Java was missing, in an easy and fun way.You'll be creating an Android app from ground using Kotlin as the main language. The idea is to learn the language by example, instead of following a typical structure. I'll be stopping to explain the most interesting**

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**concepts and ideas about Kotlin, comparing it with Java 7. This way, you can see what the differences are and which parts of the language will help you speed up your work. This book is not meant to be a language reference, but a tool for Android developers to learn Kotlin and be able to continue with their own projects by themselves. I'll be solving many of the typical problems we have to face in our daily lives by making use of the language expressiveness and**

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**some other really interesting tools and libraries. The book is very practical, so it is recommended to follow the examples and the code in front of a computer and try everything it's suggested. You could, however, take a first read to get a broad idea and then dive into practice.**

**Kotlin Programming The Big Nerd Ranch Guide Pearson Technology Group  
Android Programming: The Big Nerd Ranch Guide is an introductory Android book for programmers with Java**

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**experience. Based on Big Nerd Ranch's popular Android Bootcamp, this guide will lead you through the wilderness using hands-on example apps combined with clear explanations of key concepts and APIs. This book focuses on practical techniques for developing apps compatible with Android Oreo and Android "P." Write and run code every step of the way, using Android Studio to create apps that integrate with other apps, download and display pictures**



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**from the web, play sounds, and more. Each chapter and app has been designed and tested to provide the knowledge and experience you need to get started in Android development.**

**Programming Kotlin**

**An App-driven Approach**

**Kotlin / Android Studio 3.0 Development Essentials - Android 8 Edition**

**Android Hacker's Handbook**

**A Problem-Focused Approach**

**A hands-on guide to developing, testing,**

## **and publishing your first apps with Android**

***Build feature-rich, reliable Android Pie apps with the help of more than 100 proven industry standard recipes and strategies. Key Features  
Uncover the latest features in Android 9 Pie to make your applications stand out Develop  
Android Pie applications with the latest mobile technologies, from set up to security Get up-to-speed with Android Studio 3 and its impressive new features Book Description The Android OS has the largest installation base of any operating***

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***system in the world. There has never been a better time to learn Android development to write your own applications, or to make your own contributions to the open source community! With this extensively updated cookbook, you'll find solutions for working with the user interfaces, multitouch gestures, location awareness, web services, and device features such as the phone, camera, and accelerometer. You also get useful steps on packaging your app for the Android Market. Each recipe provides a clear solution and sample code you can use in***

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***your project from the outset. Whether you are writing your first app or your hundredth, this is a book that you will come back to time and time again, with its many tips and tricks on the rich features of Android Pie. What you will learn***  
***Develop applications using the latest Android framework while maintaining backward-compatibility with the support library***  
***Create engaging applications using knowledge gained from recipes on graphics, animations, and multimedia***  
***Work through succinct steps on specifics that will help you complete your project***

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***faster Add location awareness to your own app with examples using the latest Google Play services API Utilize Google Speech Recognition APIs for your app Who this book is for If you are new to Android development and want to take a hands-on approach to learning the framework, or if you are an experienced developer in need of clear working code to solve the many challenges in Android development, you will benefit from this book. Either way, this is a resource you'll want to keep on your desk as a quick reference to help you solve new problems as you tackle***

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*more challenging projects.*

***Summary Maintaining poor legacy code, interpreting cryptic comments, and writing the same boilerplate over and over can suck the joy out of your life as a Java developer. Fear not! There's hope! Kotlin is an elegant JVM language with modern features and easy integration with Java. The Joy of Kotlin teaches you practical techniques to improve abstraction and design, to write comprehensible code, and to build maintainable bug-free applications. Purchase of the print book includes a free eBook in PDF,***

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***Kindle, and ePub formats from Manning Publications. About the Technology Your programming language should be expressive, safe, flexible, and intuitive, and Kotlin checks all the boxes! This elegant JVM language integrates seamlessly with Java, and makes it a breeze to switch between OO and functional styles of programming. It's also fully supported by Google as a first-class Android language. Master the powerful techniques in this unique book, and you'll be able to take on new challenges with increased confidence and skill. About the Book***

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***The Joy of Kotlin teaches you to write comprehensible, easy-to-maintain, safe programs with Kotlin. In this expert guide, seasoned engineer Pierre-Yves Saumont teaches you to approach common programming challenges with a fresh, FP-inspired perspective. As you work through the many examples, you'll dive deep into handling errors and data properly, managing state, and taking advantage of laziness. The author's down-to-earth examples and experience-driven insights will make you a better—and more joyful—developer! What's inside***



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***Programming with functions Dealing with optional data Safe handling of errors and exceptions Handling and sharing state mutation About the Reader Written for intermediate Java or Kotlin developers. About the Author Pierre-Yves Saumont is a senior software engineer at Alcatel-Submarine Networks. He's the author of Functional Programming in Java (Manning, 2017). Table of Contents Making programs safer Functional programming in Kotlin: An overview Programming with functions Recursion, corecursion, and memoization Data handling***

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***with lists Dealing with optional data Handling errors and exceptions Advanced list handling Working with laziness More data handling with trees Solving problems with advanced trees Functional input/output Sharing mutable states with actors Solving common problems functionally Summary Kotlin in Action guides experienced Java developers from the language basics of Kotlin all the way through building applications to run on the JVM and Android devices. Foreword by Andrey Breslav, Lead Designer of***

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***Kotlin. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Developers want to get work done - and the less hassle, the better. Coding with Kotlin means less hassle. The Kotlin programming language offers an expressive syntax, a strong intuitive type system, and great tooling support along with seamless interoperability with existing Java code, libraries, and frameworks. Kotlin can be compiled to Java bytecode, so you can use it everywhere Java is used, including Android. And***

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***with an efficient compiler and a small standard library, Kotlin imposes virtually no runtime overhead. About the Book Kotlin in Action teaches you to use the Kotlin language for production-quality applications. Written for experienced Java developers, this example-rich book goes further than most language books, covering interesting topics like building DSLs with natural language syntax. The authors are core Kotlin developers, so you can trust that even the gnarly details are dead accurate. What's Inside Functional programming on the JVM***

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***Writing clean and idiomatic code Combining Kotlin and Java Domain-specific languages About the Reader This book is for experienced Java developers. About the Author Dmitry Jemerov and Svetlana Isakova are core Kotlin developers at JetBrains. Table of Contents PART 1 - INTRODUCING KOTLIN Kotlin: what and why Kotlin basics Defining and calling functions Classes, objects, and interfaces Programming with lambdas The Kotlin type system PART 2 - EMBRACING KOTLIN Operator overloading and other conventions Higher-order functions:***

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***lambdas as parameters and return values***

***Generics Annotations and reflection DSL  
construction***

***Want to build apps for Android devices? This book is the perfect way to master the fundamentals. Written by experts who have taught this mobile platform to hundreds of developers in large organizations and startups alike, 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,***

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***and more. Throughout the book, you'll build a Twitter-like application, adding new features with each chapter. You'll also create your own toolbox of code patterns to help you program any type of Android application with ease. Become familiar with the Android platform and how it fits into the mobile ecosystem Dive into the Android stack, including its application framework and the APK application package Learn Android's building blocks: Activities, Intents, Services, Content Providers, and Broadcast Receivers Create basic Android user***

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***interfaces and organize UI elements in Views and Layouts Build a service that uses a background process to update data in your application***

***Build scalable applications using traditional, reactive, and concurrent design patterns in Kotlin***

***Kotlin Cookbook***

***Android Programming with Kotlin for Beginners***

***A Brain-Friendly Guide***

***Achieving Structured Concurrency with Coroutines***

***The Joy of Kotlin***



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Write More Robust and Maintainable Android Apps with Kotlin “Peter Sommerhoff takes a practical approach to teaching Kotlin by providing a larger set of code listings that demonstrate language features and by guiding readers through the development of two Android apps step by step. . . . Peter finds a good balance between what is essential and what can be left to readers, so this book is an efficient yet comprehensible source for starting programming with Kotlin.” –Bernhard Rumpe, Professor of Software Engineering, RWTH Aachen University The Kotlin language brings state-of-the-art programming techniques and constructs to Android development. Kotlin for Android App Development will help you

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rapidly understand Kotlin's principles and techniques, apply Kotlin in production app development, integrate Kotlin with existing Java code, and plan a migration to Kotlin, if you choose. If you have at least basic programming experience (with any language), Peter Sommerhoff's well-crafted overview and examples will help you get quickly up-to-speed with the Kotlin language, its constructs, and its advanced functional and object-oriented capabilities. Once you've mastered these foundations, Sommerhoff walks you through two complete app development projects, introducing best practices and emerging patterns for writing code that's robust, concise, readable, and highly performant. Understand Kotlin's goals,

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principles, advantages, design, and constructs Take full advantage of functional programming in the Kotlin environment Write more concise and reusable code using Kotlin's object-oriented features Interoperate with existing Java code, and plan a migration to Kotlin Use coroutines to efficiently handle concurrency Capture data via third-party APIs, map it to internal data representations, and present it to users Master best practices for architecting Kotlin Android apps Improve productivity and readability by creating simple domain-specific languages in Kotlin Start building native Android apps the modern way in Kotlin with Jetpack's expansive set of tools, libraries, and best practices. Learn how to create efficient,

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resilient views with Fragments and share data between the views with ViewModels. Use Room to persist valuable data quickly, and avoid NullPointerExceptions and Java's verbose expressions with Kotlin. You can even handle asynchronous web service calls elegantly with Kotlin coroutines. Achieve all of this and much more while building two full-featured apps, following detailed, step-by-step instructions. With Kotlin and Jetpack, Android development is now smoother and more enjoyable than ever before. Dive right in by developing two complete Android apps. With the first app, Penny Drop, you create a full game complete with random die rolls, customizable rules, and AI opponents. Build

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lightweight Fragment views with data binding, quickly and safely update data with ViewModel classes, and handle all app navigation in a single location. Use Kotlin with Android-specific Kotlin extensions to efficiently write null-safe code without all the normal boilerplate required for pre-Jetpack + Kotlin apps. Persist and retrieve data as full objects with the Room library, then display that data with ViewModels and list records in a RecyclerView. Next, you create the official app for the Android Baseball League. It's a fake league but a real app, where you use what you learn in Penny Drop and build up from there. Navigate all over the app via a Navigation Drawer, including specific locations via Android App Links. Handle

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asynchronous and web service calls with Kotlin Coroutines, display that data smoothly with the Paging library, and send notifications to a user's phone from your app. Come build Android apps the modern way with Kotlin and Jetpack! What You Need: You'll need the Android SDK, a text editor, and either a real Android device or emulator for testing. While not strictly required, it's assumed you're using Android Studio, which comes with the Android SDK and simplifies creating an emulator. Also, a few examples require JDK 1.8 or later, though all of these pieces can be completed in other ways when using JDK 1.6.

Kotlin is a statically typed programming language

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designed to interoperate with Java and fully supported by Google on the Android operating system. Based on Big Nerd Ranch's popular Kotlin Essentials course, this guide shows you how to work effectively with the Kotlin programming language through hands-on examples and clear explanations of key Kotlin concepts and foundational APIs. Written for Kotlin 1.2, this book will also introduce you to JetBrains' IntelliJ IDEA development environment. Whether you are an experienced Android developer looking for modern features beyond what Java offers or a new developer ready to learn your first programming language, the authors will guide you from first principles to advanced usage of Kotlin. By the end of this book,

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you will be empowered to create reliable, concise applications in Kotlin.

Discover How to Build Highly-Resilient, Scalable, and Beautiful Android Apps With the Kotlin Programming Language! Are you looking for the perfect language as a beginner to kickstart your journey into software development? Are you a Java programmer, or any other programmer looking for an efficient way to get started designing awesome Android apps? If your answer is yes, then keep reading... Kotlin is a powerful, general-purpose programming language suitable for cross-platform development. In this comprehensive beginner's guide to Kotlin programming, you'll master the core foundations of



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Kotlin as well as build your own basic Android app from scratch! Here's what you're going to learn in Kotlin Programming for Beginners Everything you need to know about Kotlin and how it works together with Android How to set up your environment for effective Kotlin application development The core fundamentals of the Kotlin programming language to help you write high-quality code Step-by-step instructions to build your first Kotlin application that runs on Android How to develop aesthetically beautiful and robust layouts using RecyclerView, NavigationView, etc Foolproof ways to test your applications using the available testing frameworks within Kotlin and keep your app free from bugs ...and

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tons, tons more! Whether you're a brand new software developer looking to pick up your very first language, or you're an experienced Android developer looking to stretch your app to the limits beyond what vanilla Java can offer you, this book is a complete resource guide for everyone looking to master Kotlin and develop awesome apps for Android. Ready to add another programming language to your toolbelt? Scroll to the top of this page and click the "Buy Now with 1-Click" button to get started today!

An Introduction to Learn the Kotlin Programming Language with Tutorials and Hands-On Examples  
Learn Kotlin the Easy Way While Developing an Android App

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Learn Kotlin Programming

Sams Teach Yourself Android Application

Development in 24 Hours

Kotlin for Android Developers

Kotlin Programming for Beginners

***Programmers don't just use Kotlin, they love it. Even Google has adopted it as a first-class language for Android development. With Kotlin, you can intermix imperative, functional, and object-oriented styles of programming and benefit from the approach that's most suitable for the problem at hand. Learn to use the many***

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***features of this highly concise, fluent, elegant, and expressive statically typed language with easy-to-understand examples. Learn to write easy-to-maintain, high-performing JVM and Android applications, create DSLs, program asynchrony, and much more. Kotlin is a highly concise, elegant, fluent, and expressive statically typed multi-paradigm language. It is one of the few languages that compiles down to both Java bytecode and JavaScript. You can use it to build server-side, front-end, and Android***

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***applications. With Kotlin, you need less code to accomplish your tasks, while keeping the code type-safe and less prone to error. If you want to learn the essentials of Kotlin, from the fundamentals to more advanced concepts, you've picked the right book. Fire up your favorite IDE and practice hundreds of examples and exercises to sharpen your Kotlin skills. Learn to build standalone small programs to run as scripts, create type safe code, and then carry that knowledge forward to create fully object-oriented and functional style code***

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***that's easier to extend. Learn how to program with elegance but without compromising efficiency or performance, and how to use metaprogramming to build highly expressive code and create internal DSLs that exploit the fluency of the language. Explore coroutines, program asynchrony, run automated tests, and intermix Kotlin with Java in your enterprise applications. This book will help you master one of the few languages that you can use for the entire full stack - from the server to mobile devices - to create performant,***

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***concise, and easy to maintain applications. What You Need: To try out the examples in the book you'll need a computer with Kotlin SDK, JDK, and a text editor or a Kotlin IDE installed in it.***

***Presents a guide to Android application development using the app-driven approach for sixteen fully tested apps that include syntax, code walkthroughs, and sample outputs.***

***Offers software developers step-by-step instructions on how to create and distribute their first marketable, professional Android***

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***application.***

***Delve into the world of Kotlin and learn to build powerful Android and web applications Key Features Learn the fundamentals of Kotlin to write high-quality code Test and debug your applications with the different unit testing frameworks in Kotlin Explore Kotlin's interesting features such as null safety, reflection, and annotations Book Description Kotlin is a general-purpose programming language used for developing cross-platform applications. Complete with a***



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***comprehensive introduction and projects covering the full set of Kotlin programming features, this book will take you through the fundamentals of Kotlin and get you up to speed in no time. Learn Kotlin Programming covers the installation, tools, and how to write basic programs in Kotlin. You'll learn how to implement object-oriented programming in Kotlin and easily reuse your program or parts of it. The book explains DSL construction, serialization, null safety aspects, and type parameterization to help you build robust apps. You'll learn***

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***how to destructure expressions and write your own. You'll then get to grips with building scalable apps by exploring advanced topics such as testing, concurrency, microservices, coroutines, and Kotlin DSL builders. Furthermore, you'll be introduced to the kotlinx.serialization framework, which is used to persist objects in JSON, Protobuf, and other formats. By the end of this book, you'll be well versed with all the new features in Kotlin and will be able to build robust applications skillfully. What you will learn Explore the latest Kotlin***

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***features in order to write structured and readable object-oriented code Get to grips with using lambdas and higher-order functions Write unit tests and integrate Kotlin with Java code Create real-world apps in Kotlin in the microservices style Use Kotlin extensions with the Java collections library Uncover destructuring expressions and find out how to write your own Understand how Java-nullable code can be integrated with Kotlin features Who this book is for If you're a beginner or intermediate programmer who wants to***

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***learn Kotlin to build applications, this book is for you. You'll also find this book useful if you're a Java developer interested in switching to Kotlin.***

***Kotlin Programming***

***Kotlin and Android Development featuring Jetpack***

***How to Build Android Apps with Kotlin***

***Objective-C Programming***

***Programming Android with Kotlin***

***Kotlin in Action***

Functional Programming in Kotlin is a serious tutorial

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for programmers looking to learn FP and apply it to the everyday business of coding. Based on the bestselling Functional Programming in Scala, this book guides intermediate Java and Kotlin programmers from basic techniques to advanced topics in a logical, concise, and clear progression. In this authoritative guide, you'll take on the challenge of learning functional programming from first principles, and start writing Kotlin code that's easy to read, easier to reuse, better for concurrency, and less prone to bugs and errors. Functional Programming in Kotlin is a serious tutorial for programmers looking to learn FP and apply it to the everyday business of coding.

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Based on the bestselling Functional Programming in Scala, this book guides intermediate Java and Kotlin programmers from basic techniques to advanced topics with a logical, concise, and clear progression. In it, you'll find concrete examples and exercises that open up the world of functional programming. The book will deliver practical mastery of FP using Kotlin and a valuable perspective on program design that you can apply to other languages. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. Based on Big Nerd Ranch's popular iPhone Bootcamp class, iPhone Programming: The Big Nerd Ranch Guide

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leads you through the essential tools and techniques for developing applications for the iPhone, iPad, and iPod Touch. In each chapter, you will learn programming concepts and apply them immediately as you build an application or enhance one from a previous chapter. These applications have been carefully designed and tested to teach the associated concepts and to provide practice working with the standard development tools Xcode, Interface Builder, and Instruments. The guide's learn-while-doing approach delivers the practical knowledge and experience you need to design and build real-world applications. Here are some of the topics

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covered: Dynamic interfaces with animation Using the camera and photo library User location and mapping services Accessing accelerometer data Handling multi-touch gestures Navigation and tabbed applications Tab and creating custom rows Multiple ways of storing and loading data: archiving, Core Data, SQLite

Communicating with web services

ALocalization/Internationalization "After many 'false starts' with other iPhone development books, these clear and concise tutorials made the concepts gel for me. This book is a definite must have for any budding iPhone developer." –Peter Watling, New Zealand, Developer of



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### BubbleWrap

Build smart looking Kotlin apps with UI and functionality for the Android platform Key Features Start your Android programming career, or just have fun publishing apps on Google Play marketplace The first-principle introduction to Kotlin through Android, to start building easy-to-use apps Learn by example and build four real-world apps and dozens of mini-apps Book 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

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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,

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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 full featured Android apps. What you will learn Learn how Kotlin and Android work together Build a graphical drawing app using Object-Oriented Programming (OOP) principles Build beautiful, practical layouts using

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ScrollView, RecyclerView, NavigationView, ViewPager and CardView Write Kotlin code to manage an apps' data using different strategies including JSON and the built-in Android SQLite database Add user interaction, data captures, sound, and animation to your apps Implement dialog boxes to capture input from the user Build a simple database app that sorts and stores the user's data What 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 programming with Android and Kotlin.

The first comprehensive guide to discovering and

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preventing attacks on the Android OS As the Android operating system continues to increase its share of the smartphone market, smartphone hacking remains a growing threat. Written by experts who rank among the world's foremost Android security researchers, this book presents vulnerability discovery, analysis, and exploitation tools for the good guys. Following a detailed explanation of how the Android OS works and its overall security architecture, the authors examine how vulnerabilities can be discovered and exploits developed for various system components, preparing you to defend against them. If you are a mobile device administrator, security

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researcher, Android app developer, or consultant responsible for evaluating Android security, you will find this guide is essential to your toolbox. A crack team of leading Android security researchers explain Android security risks, security design and architecture, rooting, fuzz testing, and vulnerability analysis. Covers Android application building blocks and security as well as debugging and auditing Android apps. Prepares mobile device administrators, security researchers, Android app developers, and security consultants to defend Android systems against attack. Android Hacker's Handbook is the first

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comprehensiveresource for IT professionals charged w  
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Android 9 Development Cookbook

Atomic Kotlin

Android Programming

the big nerd ranch guide

Create Elegant, Expressive, and Performant Jvm and  
Android Applications

Swift Programming

**Big Nerd Ranch**, **Kotlin**

**Android**, **Kotlin**

**Kotlin**, **Kotlin**, **Kotlin**, **Kotlin**

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□□□□, Kotlin □ Java □□□□, □□ Android □□□□□□□□□□.

**In this book, we take you on a fun, hands-on and pragmatic journey to learning Android application development using Kotlin. You'll start building your first Android app from scratch within minutes. Every section is written in a bite-sized manner and straight to the point as I don't want to waste your time (and most certainly mine) on the content you don't need. In the end, you will have the skills to create an app and submit it to the app store. In the course of this book, we will cover:**

**Chapter 1: Introduction & BMI Calculator App**  
**Chapter 2: Quotes App Using RecyclerView**  
**Chapter 3: To Do List App Using RecyclerView & Shared Preferences**  
**Chapter 4: To Do**



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**List with Realm Chapter 5: Connecting to an API:**

**Cryptocurrency Price Tracker Chapter 6: Connecting to GitHub API - Search GitHub Users App Chapter 7:**

**Face Detection, Text Recognition with ML Kit**

**Chapter 8: Publishing Our App on AppStore** The goal of this book is to teach you Android development in a manageable way without overwhelming you. We focus only on the essentials and cover the material in a hands-on practice manner for you to code along.

**Requirements** No previous knowledge of Android development or Kotlin required, but you should have basic programming knowledge. We will learn how to make Android apps while at the same time learning the Kotlin programming language.

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**Front-end development targets the browser, putting your applications in front of the widest range of users regardless of device or operating system. This guide will give you a solid foundation for creating rich web experiences across platforms. Focusing on JavaScript, CSS3, and HTML5, this book is for programmers with a background in other platforms and developers with previous web experience who need to get up to speed quickly on current tools and best practices. Each chapter of this book will guide you through essential concepts and APIs as you build a series of applications. You will implement responsive UIs, access remote web services, build applications with Ember.js, and more. You will also debug and test your**

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**code with cutting-edge development tools and harness the power of Node.js and the wealth of open-source modules in the npm registry. After working through the step-by-step example projects, you will understand how to build modern websites and web applications.**

**Android development is so vast that mastering this mobile operating system can seem daunting--particularly now that Kotlin has become the official Android development language. This book helps Android developers make the transition from Java to Kotlin and shows them how Kotlin provides a true advantage for gaining control over asynchronous computations. By focusing specifically on coroutines,**

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**a new asynchronous programming paradigm, this book describes how you can achieve structured concurrency with Kotlin. Authors Pierre-Oliver Laurence, Amanda Hinchman-Dominguez, and Mike Dunn provide implementations of the most common tasks in native Android development. The basics of the Kotlin language and the Android architecture Data transformations in Kotlin Android fundamentals in memory and threading Concurrency with coroutines Channels and flows Android profiling tools iPhone Programming Learning Android Building Beautiful UI With Jetpack Compose C++ Crash Course**

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### **Hands-On Design Patterns with Kotlin**

#### **Kotlin bian cheng quan wei zhi nan**

For both beginning and experienced programmers! From the author of the multi-award-winning Thinking in C++ and Thinking in Java together with a member of the Kotlin language team comes a book that breaks the concepts into small, easy-to-digest "atoms," along with exercises supported by hints and solutions directly inside IntelliJ IDEA! No programming background necessary. Summaries for experienced programmers. Easy steps via very small chapters ("atoms"). Free accompanying exercises/solutions within IntelliJ Idea. Gives you a strong Kotlin foundation. Kotlin is cleaner, more consistent and far more powerful than Java. Increase programming productivity with Kotlin's

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clear, concise syntax. Produce safer, more reliable programs. Kotlin easily interacts with Java. Effortlessly migrate by adding pieces of Kotlin to an existing Java project. Support for Windows, Mac and Linux. Free version of IntelliJ IDEA includes extensive Kotlin support. Book resources, live seminars, workshops and consulting available at [AtomicKotlin.com](http://AtomicKotlin.com).

This book will equip you to create high-quality, visually appealing Android 11 apps from scratch with Kotlin. You'll discover a wide range of real-world development challenges faced by developers and explore various techniques to overcome them.

Explore popular language features, Java to Kotlin interoperability, advanced topics, and practical

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applications by building a variety of sample projects Key Features Understand and leverage the syntax, tools, and patterns by writing code in Kotlin Explore practical topics such as Java interop, concurrency with coroutines, and functional programming Discover how to use Kotlin for build targets like Android, iOS, JavaScript, and backend service Book Description Using Kotlin without taking advantage of its power and interoperability is like owning a sports car and never taking it out of the garage. While documentation and introductory resources can help you learn the basics of Kotlin, the fact that it's a new language means that there are limited learning resources and code bases available in comparison to Java and other established languages. This Kotlin book will show you how to leverage

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software designs and concepts that have made Java the most dominant enterprise programming language. You'll understand how Kotlin is a modern approach to object-oriented programming (OOP). This book will take you through the vast array of features that Kotlin provides over other languages. These features include seamless interoperability with Java, efficient syntax, built-in functional programming constructs, and support for creating your own DSL. Finally, you will gain an understanding of implementing practical design patterns and best practices to help you master the Kotlin language. By the end of the book, you'll have obtained an advanced understanding of Kotlin in order to be able to build production-grade applications. What you will learn Model



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data using interfaces, classes, and data classes Grapple with practical interoperability challenges and solutions with Java Build parallel apps using concurrency solutions such as coroutines Explore functional, reactive, and imperative programming to build flexible apps Discover how to build your own domain-specific language Embrace functional programming using the standard library and Arrow Delve into the use of Kotlin for frontend JavaScript development Build server-side services using Kotlin and Ktor Who this book is for If you're a Kotlin developer looking to further their skills or a professional Java developer looking for better or professional resources in order to make a switch to Kotlin, this book is for you. Familiarity with Kotlin programming will assist with

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understanding key concepts covered in the book.

Fully updated for Android Studio 3.0 and Android 8, the goal of this book is to teach the skills necessary to develop Android based applications using the Android Studio Integrated Development Environment (IDE), the Android 8 Software Development Kit (SDK) and the Kotlin programming language. Beginning with the basics, this book provides an outline of the steps necessary to set up an Android development and testing environment followed by an introduction to programming in Kotlin including data types, flow control, functions, lambdas and object-oriented programming. An overview of Android Studio is included covering areas such as tool windows, the code editor and the Layout Editor tool. An introduction to the architecture

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of Android is followed by an in-depth look at the design of Android applications and user interfaces using the Android Studio environment. More advanced topics such as database management, content providers and intents are also covered, as are touch screen handling, gesture recognition, camera access and the playback and recording of both video and audio. This edition of the book also covers printing, transitions and cloud-based file storage. The concepts of material design are also covered in detail, including the use of floating action buttons, Snackbars, tabbed interfaces, card views, navigation drawers and collapsing toolbars. In addition to covering general Android development techniques, the book also includes Google Play specific topics such as implementing maps using the

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Google Maps Android API, and submitting apps to the Google Play Developer Console. Other key features of Android Studio 3 and Android 8 are also covered in detail including the Layout Editor, the ConstraintLayout and ConstraintSet classes, constraint chains and barriers, direct reply notifications and multi-window support. Chapters also cover advanced features of Android Studio such as App Links, Instant Apps, the Android Studio Profiler and Gradle build configuration. Assuming you already have some programming experience, are ready to download Android Studio and the Android SDK, have access to a Windows, Mac or Linux system and ideas for some apps to develop, you are ready to get started.

Beginner's Guide to Kotlin Programming

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Front-End Web Development

Kotlin for Android App Development

Functional Programming in Kotlin

The Big Nerd Ranch Guide

Mastering Kotlin

Wi> Android Apps with App Inventor provides hands-on walkthroughs that cover every area of App Inventor development, including the Google and MIT versions of App Inventor. Kloss begins with the absolute basics of program structure, syntax, flow, and function, and then demonstrates simple ways to solve today ' s most common mobile development problems. Along the way, you ' ll build a dozen real Android apps, from games and geotrackers to navigation systems and news tickers. By

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the time you ' re done, you ' ll be comfortable implementing advanced apps and mashups integrating realtime multimedia data from all kinds of Web services with the communication and sensor-based features of your smartphone. Topics covered include Installing and configuring App Inventor Building modern, attractive mobile user interfaces Controlling Android media hardware, including the camera Saving data locally with TinyDB, or in the cloud with TinyWebDB Streamlining and automating phone, text, and email communications Tracking orientation, acceleration, and geolocation Integrating text-to-speech and speech-to-text in your apps Controlling other apps and Web services with ActivityStarter Building mobile mashups by exchanging

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data with Web APIs Testing your apps for diverse hardware with the Android Emulator Example apps, including multimedia center, online vocabulary trainer, finger painting, squash game, compass, geocacher, navigator, stock market ticker, and many more This book will empower you to explore, experiment, build your skills and confidence, and start writing professional-quality Android apps—for yourself, and for everyone else! Companion files for this title can be found at [informit.com/title/9780321812704](http://informit.com/title/9780321812704)

Covering the bulk of what you need to know to develop full-featured applications for OS X, this edition is updated for OS X Yosemite (10.10), Xcode 6, and Swift. Written in an engaging tutorial style and class-

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tested for clarity and accuracy, it is an invaluable resource for any Mac programmer. The authors introduce the two most commonly used Mac developer tools: Xcode and Instruments. They also cover the Swift language, basic application architecture, and the major design patterns of Cocoa. Examples are illustrated with exemplary code, written in the idioms of the Cocoa community, to show you how Mac programs should be written. After reading this book, you will know enough to understand and utilize Apple's online documentation for your own unique needs. And you will know enough to write your own stylish code. This edition was written for Xcode 6.3 and Swift 1.2. At WWDC 2015, Apple announced Xcode 7 and Swift 2,



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both of which introduce significant updates that (along with some changes to Cocoa for OS X 10.11) affect some of the exercises in this book. We have prepared a companion guide listing the changes needed to use Xcode 7 to work through the exercises in the book; it is available at <https://github.com/bignerdranch/cocoa-programming-for-osx-5e/blob/master/Swift2.md>.

Use Kotlin to build Android apps, web applications, and more—while you learn the nuances of this popular language. With this unique cookbook, developers will learn how to apply this Java-based language to their own projects. Both experienced programmers and those new to Kotlin will benefit from the practical recipes in this book. Author Ken Kousen (Modern Java

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Recipes) shows you how to solve problems with Kotlin by concentrating on your own use cases rather than on basic syntax. You provide the context and this book supplies the answers. Already big in Android development, Kotlin can be used anywhere Java is applied, as well as for iOS development, native applications, JavaScript generation, and more. Jump in and build meaningful projects with Kotlin today. Apply functional programming concepts, including lambdas, sequences, and concurrency See how to use delegates, late initialization, and scope functions Explore Java interoperability and access Java libraries using Kotlin Add your own extension functions Use helpful libraries such as JUnit 5 Get practical advice for working with

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specific frameworks, like Android and Spring  
Make the most of Kotlin by leveraging design patterns and best practices to build scalable and high performing apps  
Key Features  
Understand traditional GOF design patterns to apply generic solutions  
Shift from OOP to FP; covering reactive and concurrent patterns in a step-by-step manner  
Choose the best microservices architecture and MVC for your development environment  
Book Description  
Design patterns enable you as a developer to speed up the development process by providing you with proven development paradigms. Reusing design patterns helps prevent complex issues that can cause major problems, improves your code base, promotes code reuse, and

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makes an architecture more robust. The mission of this book is to ease the adoption of design patterns in Kotlin and provide good practices for programmers. The book begins by showing you the practical aspects of smarter coding in Kotlin, explaining the basic Kotlin syntax and the impact of design patterns. From there, the book provides an in-depth explanation of the classical design patterns of creational, structural, and behavioral families, before heading into functional programming. It then takes you through reactive and concurrent patterns, teaching you about using streams, threads, and coroutines to write better code along the way. By the end of the book, you will be able to efficiently address common problems faced while developing

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applications and be comfortable working on scalable and maintainable projects of any size. What you will learn Get to grips with Kotlin principles, including its strengths and weaknesses Understand classical design patterns in Kotlin Explore functional programming using built-in features of Kotlin Solve real-world problems using reactive and concurrent design patterns Use threads and coroutines to simplify concurrent code flow Understand antipatterns to write clean Kotlin code, avoiding common pitfalls Learn about the design considerations necessary while choosing between architectures Who this book is for This book is for developers who would like to master design patterns with Kotlin to build efficient and scalable applications.

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Basic Java or Kotlin programming knowledge is assumed

Over 100 recipes and solutions to solve the most common problems faced by Android developers, 3rd Edition

Head First Android Development

A Fast-Paced Introduction

Jetpack Compose by Tutorials (First Edition)

A comprehensive guide to OOP, functions, concurrency, and coroutines in Kotlin 1.3, 2nd Edition

The Fast and Easy Way to Build Android Apps

Want to write iOS apps or desktop Mac applications? This introduction to programming and the Objective-C language is your first step on the journey from someone who uses apps to someone

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who writes them. Based on Big Nerd Ranch's popular Objective-C Bootcamp, Objective-C Programming: The Big Nerd Ranch Guide covers C, Objective-C, and the common programming idioms that enable developers to make the most of Apple technologies.

Compatible with Xcode 5, iOS 7, and OS X Mavericks (10.9), this guide features short chapters and an engaging style to keep you motivated and moving forward. At the same time, it encourages you to think critically as a programmer. Here are some of the topics covered: Using Xcode, Apple ' s documentation, and other tools Programming basics: variables, loops, functions, etc. Objects, classes, methods, and messages Pointers, addresses, and memory management with ARC Properties and Key-Value Coding (KVC) Class extensions Categories Classes from the Foundation framework Blocks Delegation, target-action, and notification design patterns

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Key-Value Observing (KVO) Runtime basics

Android Programming: The Big Nerd Ranch Guide is an introductory Android book for programmers with Java experience. Based on Big Nerd Ranch's popular Android Bootcamp course, this guide will lead you through the wilderness using hands-on example apps combined with clear explanations of key concepts and APIs.

This book focuses on practical techniques for developing apps compatible with Android 4.1 (Jelly Bean) and up, including coverage of Lollipop and material design. Write and run code every step of the way, creating apps that integrate with other Android apps, download and display pictures from the web, play sounds, and more. Each chapter and app has been designed and tested to provide the knowledge and experience you need to get started in Android development. Big Nerd Ranch specializes in developing



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and designing innovative applications for clients around the world. Our experts teach others through our books, bootcamps, and onsite training. Whether it's Android, iOS, Ruby and Ruby on Rails, Cocoa, Mac OS X, JavaScript, HTML5 or UX/UI, we've got you covered. The Android team is constantly improving and updating Android Studio and other tools. As a result, some of the instructions we provide in the book are no longer correct. You can find an addendum addressing breaking changes at: <https://github.com/bignerdranch/AndroidCourseResources/raw/master/2ndEdition/Errata/2eAddendum.pdf>.

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Through the authors' carefully constructed explanations and examples, you will develop an

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understanding of Swift grammar and the elements of effective Swift style. This book is written for Swift 3.0 and will also show you how to navigate Xcode 8 and get the most out of Apple's documentation. Throughout the book, the authors share their insights into Swift to ensure that you understand the hows and whys of Swift and can put that understanding to use in different contexts. After working through the book, you will have the knowledge and confidence to develop your own solutions to a wide range of programming challenges using Swift.

What will you learn from this book? Head First Kotlin is a complete introduction to coding in Kotlin. This hands-on book helps you learn the Kotlin language with a unique method that goes beyond syntax and how-to manuals and teaches you how to think like a great Kotlin developer. You ' ll learn everything from language

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fundamentals to collections, generics, lambdas, and higher-order functions. Along the way, you ' ll get to play with both object-oriented and functional programming. If you want to really understand Kotlin, this is the book for you. Why does this book look so different? Based on the latest research in cognitive science and learning theory, Head First Kotlin uses a visually rich format to engage your mind rather than a text-heavy approach that puts you to sleep. Why waste your time struggling with new concepts? This multisensory learning experience is designed for the way your brain really works.

Android for Programmers

Head First Kotlin

The Android Tablet Developer's Cookbook