

Android 4.4 App Development



Essentials

Android 4.4 App Development Essentials

Neil Smyth



Android 4.4 App Development Essentials:

Android 4.4 App Development Essentials Neil Smyth, 2014 The goal of this book is to teach the skills necessary to develop Android based applications using the Eclipse Integrated Development Environment IDE and the Android 4.4 Software Development Kit SDK Beginning with the basics this book provides an outline of the steps necessary to set up an Android development and testing environment An introduction to the architecture of Android is followed by an in depth look at the design of Android applications and user interfaces 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 features introduced with Android 4.4 including printing transitions and cloud based file storage In addition to covering general Android development techniques the book also includes Google Play specific topics such as implementing maps using the Google Maps Android API and submitting apps to the Google Play Developer Console Assuming you already have Java programming experience are ready to download Eclipse 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

Mobile App Development Essentials SREEKUMAR V T, 2025-04-06 In today's digital age mobile apps have transformed the way we live work and interact Whether you're a seasoned developer looking to enhance your skills or a beginner eager to dive into the world of mobile app creation Mobile App Development Essentials Tools Techniques and Tips is your comprehensive guide to mastering the art and science of mobile app development About the Book Unlock the Full Potential of Mobile App Development This book is designed to empower you with the knowledge and skills needed to create impactful and successful mobile applications Regardless of your experience level you'll find practical insights real world examples and hands on exercises that will guide you through every step of the app development journey Comprehensive Coverage Mobile App Development Essentials comprises seven in depth chapters each dedicated to a critical aspect of mobile app development From selecting the right tools and designing user friendly interfaces to publishing your app and ensuring its security this book leaves no stone unturned in providing you with the essential tools and techniques Real World Guidance Learn from the experience of seasoned app developers as they share their best practices strategies and tips to help you avoid common pitfalls and navigate the challenges of mobile app development Key Features Foundations of Mobile App Development Explore the fundamentals from choosing development platforms to understanding programming languages Effective App Design Learn to create visually appealing and user friendly interfaces that captivate and engage users Technical Insights Dive deep into the technical aspects of coding debugging testing and ensuring optimal performance Publishing Success Discover the essential steps to publish your app on major app stores including the Apple App Store and Google Play Store Ongoing App Maintenance Understand the importance of continuous app maintenance and updates to ensure long term success Security Best Practices Learn how to safeguard your app and user data from evolving security

threats App Monetization Strategies Explore diverse strategies to generate revenue from your app while delivering value to users Who Should Read This Book Aspiring Developers If you're new to app development this book provides a solid foundation and comprehensive guidance Experienced Developers Seasoned professionals will benefit from advanced techniques and best practices to elevate their skills Entrepreneurs and Product Managers Gain a deeper understanding of the development process to communicate effectively with your development team Your Journey Begins Here Whether you're crafting the next ground breaking app or a niche solution to a specific problem Mobile App Development Essentials will be your trusted companion

Android 4.2 App Development Essentials Neil Smyth, 2013-09-27 The goal of this book is to teach the skills necessary to develop Android based applications using the Eclipse Integrated Development Environment IDE and the Android 4.2 Software Development Kit SDK Beginning with the basics this book provides an outline of the steps necessary to set up an Android development and testing environment An introduction to the architecture of Android is followed by an in depth look at the design of Android applications and user interfaces More advanced topics such as database management content providers services and intents are also covered as are touch screen handling gesture recognition camera access and the playback and recording of both video and audio In addition to covering general Android development techniques the book also includes Google Play specific topics such as using the Google Play In App Billing API implementing maps using the Google Maps Android API and submitting apps to the Google Play Developer Console Assuming you already have some Java programming experience are ready to download Eclipse 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

iPad iOS 4 Development Essentials - Xcode 4 Edition Neil Smyth, 2011-05-12

Kotlin Development Essentials: Mastering Core Concepts and Techniques Adam Jones, 2024-12-11 Embark on a transformative journey into Kotlin programming with Kotlin Development Essentials Mastering Core Concepts and Techniques This definitive guide equips you to harness the full potential of one of today's most sought after programming languages Whether you're transitioning from Java diving into Android app development or building robust backend services this book lays a strong foundation in Kotlin enriched with practical applications to launch your development career This expertly structured guide facilitates a thorough learning progression guiding you from setting up your Kotlin development environment to mastering its syntax and fundamental programming concepts Explore functions handle collections efficiently and delve into advanced topics like object oriented and asynchronous programming Seamlessly integrate with Java manage data adeptly and bring Android applications to life utilizing Kotlin's modern and expressive features Ideal for beginners yet detailed enough for seasoned developers each chapter is crafted to build upon prior knowledge ensuring a deep understanding of Kotlin's capabilities Engage with practical examples tackle coding exercises and absorb professional insights equipping you to meet real world challenges with confidence Write concise robust and efficient applications with ease Unlock the potential of Kotlin for your development projects Whether you aim to create

cutting edge Android apps develop powerful server side applications or simply embrace a modern programming paradigm Kotlin Development Essentials Mastering Core Concepts and Techniques is your key resource for success *Android Studio 4.2 Development Essentials - Java Edition* Neil Smyth,2021-06-09 Fully updated for Android Studio 4 2 the goal of this book is to teach the skills necessary to develop Android based applications using the Java programming language Beginning with the basics this book provides an outline of the steps necessary to set up an Android development and testing environment 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 of Android is followed by an in depth look at the design of Android applications and user interfaces using the Android Studio environment Chapters are also included covering the Android Architecture Components including view models lifecycle management Room database access the Database Inspector app navigation live data and data binding More advanced topics such as intents are also covered as are touch screen handling gesture recognition and the recording and playback of audio This edition of the book also covers printing transitions cloud based file storage and foldable device support 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 Other key features of Android Studio 4 2 and Android are also covered in detail including the Layout Editor the ConstraintLayout and ConstraintSet classes MotionLayout Editor view binding constraint chains barriers and direct reply notifications Chapters also cover advanced features of Android Studio such as App Links Dynamic Delivery the Android Studio Profiler Gradle build configuration and submitting apps to the Google Play Developer Console 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 **Beginning Android 4 Application Development** Wei-Meng Lee,2012-03-06 Understand Android OS for both smartphone and tablet programming This fast paced introduction to the newest release of Android OS gives aspiring mobile app developers what they need to know to program for today s hottest Android smartphones and tablets Android 4 OS is for the first time a single solution for both smartphones and tablets so if you master the information in this helpful guide you ll be well on your way to successful development for both devices From using activities and intents and creating rich user interfaces to working with SMS messaging APIs and the Android SDK what you need is here Provides clear instructions backed by real world programming examples Begins with the basics and covers everything Android 4 developers need to know for both smartphones and tablets Explains how to customize activities and intents create rich user interfaces and manage data Helps you work with SMS and messaging APIs the Android SDK and using location based services Details how to package and publish your applications to the Android Market Beginning Android 4 Application Development pares down the most essential steps you need to know so you can start creating Android applications today *Android Studio 4.1 Development Essentials - Kotlin Edition* Neil Smyth,2020-10-26 Fully updated for

Android Studio 4.1, Android 11, and Jetpack and the modern architectural guidelines and components. The goal of this book is to teach the skills necessary to develop Android-based applications using 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, coroutines, 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 of Android is followed by an in-depth look at the design of Android applications and user interfaces using the Android Studio environment. Chapters are also included covering the Android Architecture Components, including view models, lifecycle management, Room databases, app navigation, live data, and data binding. More advanced topics such as intents are also covered, as are touch screen handling, gesture recognition, and the playback and recording of audio. This edition of the book also covers printing, transitions, cloud-based file storage, and foldable device support. 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. Other key features of Android Studio 4.1 and the Android 11 SDK are also covered in detail, including the Layout Editor, the ConstraintLayout and ConstraintSet classes, MotionLayout animation, constraint chains and barriers, view binding, direct reply notifications, and multi-window support. Chapters also cover advanced features of Android Studio, such as App Links, Dynamic Feature Modules, 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.

Game Development Basics J. Thomas, Game Development Basics: A Beginner's Guide to Game Design and Coding by J. Thomas is a practical introduction to the world of game creation. This book is perfect for beginners who are interested in understanding the foundational concepts of game development, including game mechanics, design principles, user experience, and the basics of writing game code.

Android Studio 4.0 Development Essentials - Java Edition Neil Smyth, 2020-09-24. Explore Android Studio 4.0 and update your skills to build modern applications in Java. Key Features: Set up your Android development and testing environments. Create user interfaces with Android Studio Editor XML and Java. Explore the essential elements of Android Jetpack. Book Description: Android rolls out frequent updates to meet the demands of the dynamic mobile market and to enable its developer community to lead advancements in application development. This book focuses on the updated features of Android Studio, the fully integrated development environment launched by Google to build reliable Android applications using Java. The book starts by outlining the steps necessary to set up an Android development and testing environment. You'll then learn how to create user interfaces with the help of Android Studio Layout Editor XML files and by writing the code in Java. The book introduces you to Android architecture components and advanced topics such as intents, touchscreen handling, gesture recognition, multi-

window support integration and biometric authentication and lets you explore key features of Android Studio 4.0 including the layout editor, direct reply notifications and dynamic delivery. You'll also cover Android Jetpack in detail and create a sample app project using the ViewModel component. Finally, you'll upload your app to the Google Play Console and handle the build process with Gradle. By the end of this book, you'll have gained the skills necessary to develop applications using Android Studio 4.0 and Java. What you will learn: Design impressive UI for Android applications using Android Studio Editor and Java. Understand how Android Jetpack can help you reduce the amount of code. Explore unique ways to handle single touch and multi touch events. Trigger local and remote notifications on the device. Integrate biometric authentication into an Android app. Create test and upload an Android app bundle on Google Play Store. Who this book is for: This book is for application developers and Java programmers who want to explore Android Studio 4.0 to create powerful Android applications. A basic understanding of Java and the Android SDK will be helpful.

Android Studio 4.1 Development Essentials - Java Edition Neil Smyth, 2020-10-26 Fully updated for Android Studio 4.1, Android 11, R, Android Jetpack and the modern architectural guidelines and components. The goal of this book is to teach the skills necessary to develop Android based applications using the Java programming language. 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 of Android is followed by an in depth look at the design of Android applications and user interfaces using the Android Studio environment. Chapters are also included covering the Android Architecture Components including view models, lifecycle management, Room databases, app navigation, live data and data binding. More advanced topics such as intents are also covered, as are touch screen handling, gesture recognition and the playback and recording of audio. This edition of the book also covers printing, transitions, cloud based file storage and foldable device support. 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 Google Maps Android API and submitting apps to the Google Play Developer Console. Other key features of Android Studio 4.1 and Android 11 are also covered in detail, including the Layout Editor, the ConstraintLayout and ConstraintSet classes, constraint chains, MotionLayout, animation barriers, direct reply notifications, view bindings and multi window support. Chapters also cover advanced features of Android Studio such as App Links, Dynamic Feature Modules, 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.

Enterprise Android Zigurd Mednieks, G. Blake Meike, Laird Dornin, Zane Pan, 2013-10-28 The definitive guide to building data driven Android applications for enterprise systems. Android devices represent a rapidly growing share of the mobile device market. With the release of Android 4, they are moving beyond

consumer applications into corporate enterprise use Developers who want to start building data driven Android applications that integrate with enterprise systems will learn how with this book In the tradition of Wrox Professional guides it thoroughly covers sharing and displaying data transmitting data to enterprise applications and much more Shows Android developers who are not familiar with database development how to design and build data driven applications for Android devices and integrate them with existing enterprise systems Explores how to collect and store data using SQLite share data using content providers and display data using adapters Covers migrating data using various methods and tools transmitting data to the enterprise using web services serializing securing and synchronizing data Shows how to take advantage of the built in capabilities of the Android OS to integrate applications into enterprise class systems Enterprise Android prepares any Android developer to start creating data intensive applications that today s businesses demand *Android Studio 4.0 Development Essentials - Java Edition* Neil Smyth,2020-06-18 Fully updated for Android Studio 4 0 Android 10 Q Android Jetpack and the modern architectural guidelines and components the goal of this book is to teach the skills necessary to develop Android based applications using the Java programming language 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 of Android is followed by an in depth look at the design of Android applications and user interfaces using the Android Studio environment Chapters are also included covering the Android Architecture Components including view models lifecycle management Room databases app navigation live data and data binding More advanced topics such as intents are also covered as are touch screen handling gesture recognition and the playback and recording of audio This edition of the book also covers printing transitions cloud based file storage and foldable device support 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 Google Maps Android API and submitting apps to the Google Play Developer Console Other key features of Android Studio 4 0 and Android 10 are also covered in detail including the Layout Editor the ConstraintLayout and ConstraintSet classes constraint chains MotionLayout animation barriers direct reply notifications view bindings and multi window support Chapters also cover advanced features of Android Studio such as App Links Dynamic Feature Modules 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 **iOS 8 for Programmers** Paul Deitel,Harvey M. Deitel,Abbey Deitel,2014-12-15 The professional programmer s Deitel guide to iPhone and iPad app development using iOS 8 Swift™ Xcode 6 and Cocoa Touch This book presents leading edge computing technologies for professional software developers At the heart of the book is the Deitel app driven approach a variant of Deitel s live code approach concepts are

presented in the context of complete working iOS apps rather than using code snippets The introduction and app test drives at the beginning of each chapter show one or more sample executions The book's source code is available at [www.deitel.com](http://www.deitel.com/books/iOS8FP1) You'll quickly learn everything you need to start building iOS 8 apps beginning with a test drive of the Tip Calculator app in Chapter 1 then building your first apps in Chapter 2 with visual programming and in Chapter 3 with Swift By the time you reach Chapter 9 you'll be ready to create your own apps for submission to the App Store We'll overview the submission process including uploading your apps deciding whether to sell your apps or offer them for free and marketing them using in-app advertising social media Internet public relations and more

Android 6 for Programmers Paul J. Deitel, Harvey Deitel, Alexander Wald, 2015-12-01 The professional programmer's Deitel guide to smartphone and tablet app development using Android 6 and Android Studio Billions of apps have been downloaded from Google Play This book gives you everything you need to start developing great apps quickly and getting them published on Google Play The book uses an app-driven approach each new technology is discussed in the context of eight fully coded and tested Android apps complete with syntax shading code highlighting code walkthroughs and sample outputs Apps you'll develop include Welcome App Cannon Game Tip Calculator Weather Viewer Flag Quiz Twitter Searches Doodlz Address Book Practical Example Rich Coverage of Android 6 Android Studio Gradle Vector Asset Studio Theme Editor Material Design App Templates and Themes AppCompat Library Android Design Support Library RecyclerView FloatingActionButton TextInputLayout Material Design Elevation and Icons REST Web Services JSON Threading SQLite Database Android 6 Permissions Cursors Loaders ContentProviders Supporting Various Screen Sizes Resolutions Accessibility Internationalization Activities Fragments Intents Preferences GUIs Layouts Menus Resource Files Events Touch Gesture Processing Images Audio Graphics Animation Immersive Mode PrintHelper Google Play Store App Publishing Pricing Marketing In-App Advertising In-App Billing Virtual Goods and more About This Book The first generation Android phones were released in October 2008 As of June 2015 Android had 82.8% of the global smartphone market share compared to 13.9% for Apple and 2.6% for Microsoft http://www.idc.com/prodserv/smartphone/os_market_share.jsp Billions of apps have been downloaded from Google Play and more than one billion Android devices were shipped worldwide in 2014 <http://www.cnet.com/news/android-shipments-exceed-1-billion-for-first-time-in-2014/> The opportunities for Android app developers are enormous This book presents leading edge computing technologies for professional software developers At the heart of the book is the Deitel app-driven approach concepts are presented in the context of complete working Android apps rather than using code snippets The introduction and app test drives at the beginning of each chapter show one or more sample executions The book's source code is available at <http://www.deitel.com/books/AndroidFP3> The apps in this book were carefully designed to introduce you to key Android features and APIs You'll quickly learn everything you need to start building Android apps beginning with a test drive of the Tip Calculator app in Chapter 1 then building one new app in each of Chapters 2 through 9 By the time you reach Chapter 10 you'll be

ready to create your own apps for submission to Google Play and other app marketplaces You ll master the Google Play submission process including uploading your apps You ll decide whether to sell your apps or offer them for free and learn how to market them via social media and monetize them with in app advertising in app billing virtual goods and more

Cocos2D Game Development Essentials Ben Trengrove,2015-01-23 If you are a game developer with experience in Objective C and are interested in creating games for iOS or Android this is the book for you It will help you to quickly get started with Cocos2D and guide you through the process of creating a game giving you the essential skills and knowledge you need to do so

Java SE8 for Programmers Paul J. Deitel,Harvey Deitel,2014-03-29 The professional programmer s Deitel guide to Java SE 7 and SE 8 Java 8 development with the powerful Java platform Written for programmers with a background in high level language programming this book applies the Deitel signature live code approach to teaching programming and explores the Java language and Java APIs in depth The book presents concepts in the context of fully tested programs complete with syntax shading code highlighting line by line code walkthroughs and program outputs The book features hundreds of complete Java programs with thousands of lines of proven Java code and hundreds of tips that will help you build robust applications Start with an introduction to Java using an early classes and objects approach then rapidly move on to more advanced topics including GUI graphics exception handling lambdas streams functional interfaces object serialization concurrency generics generic collections JDBC and more You ll enjoy the Deitels classic treatment of object oriented programming and the object oriented design ATM case study including a complete Java implementation When you re finished you ll have everything you need to build industrial strength object oriented Java SE 7 and SE 8 Java 8 applications

Practical Example Rich Coverage of Java SE 7 and SE 8 Java 8 Lambdas Streams Functional Interfaces with Default and Static Methods Classes Objects Encapsulation Inheritance Polymorphism Interfaces Swing and JavaFX GUIs Graphics Integrated Exception Handling Files Streams Object Serialization Multithreading and Concurrency for Optimal Multi Core Performance Generics and Generic Collections Database JDBC SQL and JavaDB Using the Debugger and the API Docs Industrial Strength Object Oriented Design ATM Case Study and more Visit www.deitel.com Download code examples For information on Deitel s Dive Into Series programming training courses delivered at organizations worldwide visit www.deitel.com/training or write to deitel@deitel.com Join the Deitel social networking communities on Facebook at facebook.com/DeitelFan Twitter [deitel](https://twitter.com/deitel) Google at google.com/DeitelFan LinkedIn at bit.ly/DeitelLinkedIn YouTube at youtube.com/user/DeitelTV Subscribe to the Deitel Buzz Online e mail newsletter at www.deitel.com/newsletter/subscribe.html

Android Studio 3.6 Development Essentials - Kotlin Edition Neil Smyth,2020-02-25 Fully updated for Android Studio 3.6 Android 10 Q Android Jetpack and the modern architectural guidelines and components the goal of this book is to teach the skills necessary to develop Android based applications using 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 coroutines 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 of Android is followed by an in depth look at the design of Android applications and user interfaces using the Android Studio environment Chapters are also included covering the Android Architecture Components including view models lifecycle management Room databases app navigation live data and data binding More advanced topics such as intents are also covered as are touch screen handling gesture recognition and the playback and recording of audio This edition of the book also covers printing transitions cloud based file storage and foldable device support 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 Google Maps Android API and submitting apps to the Google Play Developer Console Other key features of Android Studio 3.6 and Android 10 are also covered in detail including the Layout Editor the ConstraintLayout and ConstraintSet classes view binding constraint chains and barriers view binding direct reply notifications and multi window support Chapters also cover advanced features of Android Studio such as App Links Dynamic Feature Modules 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

Swift for Programmers Paul J. Deitel, Harvey Deitel, 2015-01-16 The professional programmer's Deitel guide to Apple's new Swift programming language for the iOS and OS X platforms Written for programmers with a background in object oriented programming in a C based language like Objective C Java C or C this book applies the Deitel signature live code approach with scores of complete working real world programs to explore the new Swift language in depth The code examples feature syntax shading code highlighting rich commenting line by line code walkthroughs and live program outputs The book features thousands of lines of proven Swift code and tips that will help you build robust applications Start with an introduction to Swift using an early classes and objects approach then rapidly move on to more advanced topics When you master the material you'll be ready to build industrial strength object oriented Swift applications About This Book The Swift programming language was arguably the most significant announcement at Apple's 2014 Worldwide Developers Conference Although apps can still be developed in Objective C Apple says that Swift is its applications programming and systems programming language of the future Swift is a contemporary language with simpler syntax than Objective C Because Swift is new its designers were able to include popular programming language features from languages such as Objective C Java C Ruby Python and many others These features include automatic reference counting ARC type inference optionals String interpolation tuples closures lambdas extensions generics operator overloading functions with multiple return values switch

statement enhancements and more We've been able to develop apps more quickly in Swift than with Objective C and the code is shorter clearer and runs faster on today's multi-core architectures Swift also eliminates the possibility of many errors common in other languages making your code more robust and secure Some of these error prevention features include no implicit conversions ARC no pointers required braces around every control statement's body assignment operators that do not return values requiring initialization of all variables and constants before they're used array bounds checking automatic checking for overflow of integer calculations and more You can combine Swift and Objective C in the same app to enhance existing Objective C apps without having to rewrite all the code Your apps will easily be able to interact with the Cocoa Cocoa Touch frameworks which are largely written in Objective C You can also use the new Xcode playgrounds with Swift A playground is an Xcode window in which you can enter Swift code that compiles and executes as you type it This allows you to see and hear your code's results as you write it quickly find and fix errors and conveniently experiment with features of Swift and the Cocoa Cocoa Touch frameworks

Practical Example Rich Coverage of Classes Objects Methods Properties Initializers Deinitializers Bridging Tuples Array and Dictionary Collections Structures Enumerations Closures ARC Inheritance Polymorphism Protocols Type Methods Type Properties Generics Strings and Characters Operator Overloading Operator Functions Custom Operators Subscripts Access Control Type Casting and Checking Nested Types Nested Methods Optionals Optional Chaining Extensions Xcode Playgrounds Intro to Cocoa Touch with a Fully Coded iOS 8 Tip Calculator App Overflow Operators Attributes Patterns More topics online

IMPORTANT NOTE ABOUT XCODE AND SWIFT With Xcode 6.3 and Swift 1.2 Apple introduced several changes in Swift that affect the book's source code Please visit www.deitel.com/books/iOS8FP1 for updated source code The changes do not affect Xcode 6.2 users You can download Xcode 6.2 from developer.apple.com/downloads/index.action you'll have to log in with your Apple developer account to see the list of downloads Visit www.deitel.com Download code examples For information on Deitel's Dive Into Series programming training courses delivered at organizations worldwide visit www.deitel.com/training or to deitel.deitel.com Join the Deitel social networking communities on Facebook at facebook.com/DeitelFan Twitter at deitel Google at google.com/DeitelFan LinkedIn at bit.ly/DeitelLinkedIn YouTube at youtube.com/user/DeitelTV and subscribe to the Deitel Buzz Online e-mail newsletter at www.deitel.com/newsletter/subscribe.html

Android Studio 4.2 Development Essentials - Java Edition Neil Smyth, 2021

Developing Android applications using Android Studio 4.2 Java and Android Jetpack Key Features Design complex and responsive user interface layouts with the Android Studio 4.2 IDE Build view model based apps using the Jetpack architecture and use the latest Material Design components to build modern user interface designs Integrate with SQLite databases and the Android Room Persistence Library

Book Description Android Studio is an Integrated Development Environment based on the JetBrains IntelliJ IDEA It provides developers with a unique platform to design and develop Android apps using various developer tools The new Android Studio 4.2 has an upgraded IntelliJ platform and a variety of

new features designed to improve the productivity of Android app developers Fully updated for Android Studio 4.2 the objective of this book is to help you master the skills necessary to develop Android applications using Java as the programming language This book begins by outlining the steps necessary to set up an Android development and testing environment and introducing programming in Java describing data types flow control functions lambdas and object oriented programming It includes an overview of Android Studio covering areas such as tool windows the code editor and the Layout Editor tool An introduction to Android architecture is followed by an in depth explanation of the design of Android applications and user interfaces using the Android Studio environment Early chapters detail Android Architecture components like view models lifecycle management Room database access the Database Inspector app navigation live data and data binding Advanced topics such as intents are also covered as are touch screen handling gesture recognition and the recording and playback of audio You will also explore printing transitions cloud based file storage and foldable device support Detailed descriptions of the concepts of material design are provided including the use of floating action buttons Snackbars tabbed interfaces card views navigation drawers and collapsing toolbars Some key features of Android Studio 4.2 and Android discussed in depth include the Layout Editor the ConstraintLayout and ConstraintSet classes MotionLayout Editor view binding constraint chains barriers and direct reply notifications Later chapters cover advanced features of Android Studio such as App Links Dynamic Delivery the Android Studio Profiler

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