



Joseph Annuzzi, Jr.  
Lauren Darcey  
Shane Conder

Fourth Edition

# Advanced Android™ Application Development

**Developer's Library**



# Advanced Android Application Development 4th Edition Developers Library

**Phil Dutson**



## **Advanced Android Application Development 4th Edition Developers Library:**

*Advanced Android Application Development* Joseph Annucci (Jr.), Lauren Darcey, Shane Conder, 2015 This book a renamed new edition of *Android Wireless Application Development Volume II* is the definitive guide to advanced commercial grade Android development updated for the latest Android SDK The book serves as a reference for the Android API

**Android Application Development in 24 Hours, Sams Teach Yourself** Carmen Delessio, Lauren Darcey, Shane Conder, 2015-06-25 In just 24 sessions of one hour or less learn how to build powerful apps for the world's most popular mobile platform Android Using this book's straightforward step by step approach you'll build complete Android 5 apps from the ground up with Android Studio As you do you'll master key skills for designing developing and publishing meaningful apps of your own Extensively updated for Android 5's newest capabilities every lesson builds on what you've already learned giving you a rock solid foundation for real world success Highlights of this new Fourth Edition include Extensive new coverage Android 5 Lollipop Android Studio and Material Design plus Android M early preview A laser focus on modern Android essentials including activities intents resources and background processing New Android 5 features for Android TV and Android Wear Complete Android Studio projects in nearly every chapter Learn how to Use the powerful new Android Studio development environment Build layouts that automatically display properly on any device Craft more dynamic intuitive apps with Google's new material design language Display the right information at the right time with ListViews and adapters Make apps more responsive with background processes Add sophisticated navigation with action toolbars and slide out menus Integrate images and media into your apps Save data for your app and create public files that can be used by anyone Access the cloud to download and parse JSON data Use SQLite and content providers to create responsive data driven apps Create update and cancel notifications Start developing Android Wearable and TV apps Use Google Play Services to add location mapping and more Package and publish apps to Google Play and other markets

**Professional Android** Reto Meier, Ian Lake, 2018-08-23 The comprehensive developer guide to the latest Android features and capabilities *Professional Android 4th Edition* shows developers how to leverage the latest features of Android to create robust and compelling mobile apps This hands on approach provides in depth coverage through a series of projects each introducing a new Android platform feature and highlighting the techniques and best practices that exploit its utmost functionality The exercises begin simply and gradually build into advanced Android development Clear concise examples show you how to quickly construct real world mobile applications This book is your guide to smart efficient effective Android development Learn the best practices that get more out of Android Understand the anatomy lifecycle and UI metaphor of Android apps Design for all mobile platforms including tablets Utilize both the Android framework and Google Play services

[Advanced Android Application Development, Fourth Edition](#) Joseph Annucci, Lauren Darcey, Shane Conder, 2014 *Advanced Android Application Development Fourth Edition* is the definitive guide to building robust commercial grade Android apps Systematically revised and updated

this guide brings together powerful advanced techniques for the entire app development cycle including design coding testing debugging and distribution With the addition of quizzes and exercises in every chapter it is ideal for both professional and classroom use An outstanding practical reference for the newest Android APIs this guide provides in depth explanations of code utilizing key API features and includes downloadable sample apps for nearly every chapter Together they provide a solid foundation for any modern app project Throughout the authors draw on decades of in the trenches experience as professional mobile developers to provide tips and best practices for highly efficient development They show you how to break through traditional app boundaries with optional features including the Android NDK Google Analytics and Android Wear APIs and Google Play Game Services New coverage in this edition includes Integrating Google Cloud Messaging into your apps Utilizing the new Google location and Google Maps Android APIs Leveraging in app billing from Google Play as well as third party providers Getting started with the Android Studio IDE Localizing language and using Google Play App Translation services Extending your app s reach with Lockscreen widgets and DayDreams Leveraging improvements to Notification Web SMS and other APIs Annuzzi has released new source code samples for use with Android Studio The code updates are posted to the associated blog site <http://advancedandroidbook.blogspot.com> This title is an indispensable resource for intermediate to advanced level Java programmers who are now developing for Android and for seasoned mobile developers who want to make the most of the new Android platform and hardware This revamped newly titled edition is a complete update of *Android Wireless Application Development Volume II Advanced Topics Third Edition* [Advanced Android Application Development](#), 2014 **Forthcoming Books** Rose Army, 1997-12 **Android Development Patterns** Phil Dutson, 2016-02-18 A must read for all developers that want to begin serious Android development Justin Anderson Freelance Android Developer From start to finish this book contains a variety of great tips and insight into the most important attributes of Android design This book will definitely be required reading for any of our future Android engineers Cameron Banga Cofounder 9magnets LLC There s a downside to Android s amazing openness and versatility it s easy for developers to write code that s inefficient unreliable insecure or hard to maintain In *Android Development Patterns* enterprise Android developer Phil Dutson helps you leverage Android 5 0 s amazing power without falling victim to those pitfalls Dutson presents today s most comprehensive set of patterns and procedures for building optimized robust apps with Android 5 0 First Dutson guides you through establishing a highly efficient development environment and workflow and testing your app to ensure that your code works just as you expect Then he walks through the modern best practices for structuring apps using widgets and components and working with views You learn how to build apps that are easy to manage and update deliver accurate and up to date information without wasting precious battery power and take advantage of new hardware such as Android Wear and Android TV Dutson concludes by presenting powerful strategies for optimizing your apps and packaging them for distribution Coverage includes Using testing to build more trustworthy dependable

maintainable apps Understanding subtle but critical differences between Android and traditional Java programming Building consistent modern user interfaces with views and layouts Leveraging the proven MVC pattern to cleanly organize logic Creating rich visual experiences with 3D graphics animation and media Simplifying capture and use of location data with the new Locations API Integrating optional hardware such as Bluetooth NFC or USB Building better apps with Google Play Services Creating Android Wear notifications and apps Tuning and improving apps with Google Analytics Designing Android TV apps for the ten foot view [informat.com aw https://github.com/dutsonpa/adp/files](https://github.com/dutsonpa/adp/files)

## **Introduction to Android**

**Application Development** Joseph Anuzzi (Jr.), Lauren Darcey, Shane Conder, 2014 Revised edition of first part of Android wireless application development Shane Conder Lauren Darcey c2010 **Android Wireless Application Development** Lauren Darcey, 2012 **Android Wireless Application Development** Shane Conder, Lauren Darcey, 2010-12-16 Android Wireless Application Development Second Edition Lauren Darcey Shane Conder Special Edition Includes Bonus CD The start to finish guide to Android application development massively updated for the newest SDKs and developer techniques This book delivers all the up to date information tested code and best practices you need to create and market successful mobile apps with the latest versions of Android Drawing on their extensive experience with mobile and wireless development Lauren Darcey and Shane Conder cover every step concept design coding testing packaging and delivery The authors introduce the Android platform explain the principles of effective Android application design and present today's best practices for crafting effective user interfaces Next they offer detailed coverage of each key Android API including data storage networking telephony location based services multimedia 3D graphics and hardware Every chapter of this edition has been updated for the newest Android SDKs tools utilities and hardware All sample code has been overhauled and tested on leading devices from multiple companies including HTC Motorola and ARCHOS Many new examples have been added including complete new applications This new edition also adds Nine new chapters covering web APIs the Android NDK extending application reach managing users data synchronization backups advanced user input and more Greatly expanded coverage of Android manifest files content providers app design and testing New coverage of hot topics like Bluetooth gestures voice recognition App Widgets live folders live wallpapers and global search Updated 3D graphics programming coverage reflecting OpenGL ES 2.0 An all new chapter on tackling cross device compatibility issues from designing for the smallest phones to the big new tablets hitting the market Even more tips and tricks to help you design develop and test applications for different devices A new appendix full of Eclipse tips and tricks This book is an indispensable resource for every member of the Android development team software developers with all levels of mobile experience team leaders and project managers testers and QA specialists software architects and even marketers About the CD ROM The accompanying CD ROM contains all the sample code that is presented in the book organized by chapter as well as a new sample application that combines many of the individual lessons learned into a single cohesive sample This new application is referred to and discussed in Appendix G A

Brief Walkthrough of an Android Application from Start to Finish Programming Java Android Wireless Application Development Volume II Lauren Darcey, Shane Conder, 2012-07-19 Android Wireless Application Development has earned a reputation as the most useful real world guide to building robust commercial grade Android apps Now authors Lauren Darcey and Shane Conder have systematically revised and updated this guide for the latest Android SDK and tools updates To accommodate their extensive new coverage they ve split the book into two leaner cleaner volumes This Volume II focuses on advanced techniques for the entire app development cycle including design coding testing debugging and distribution Darcey and Conder cover hot topics ranging from tablet development to protecting against piracy and demonstrate advanced techniques for everything from data integration and UI development to in app billing Every chapter has been thoroughly updated to reflect the latest SDKs tools and devices The sample code has been completely overhauled and is available for download on a companion website Drawing on decades of in the trenches experience as professional mobile developers the authors also provide even more tips and best practices for highly efficient development This new edition covers Advanced app design with async processing services SQLite databases content providers intents and notifications Sophisticated UI development including input gathering via gestures and voice recognition Developing accessible and internationalized mobile apps Maximizing integrated search cloud based services and other exclusive Android features Leveraging Android 4.0 APIs for networking web location services the camera telephony and hardware sensors Building richer apps with 2D 3D graphics OpenGL ES and RenderScript animation and the Android NDK Tracking app usage patterns with Google Analytics Streamlining testing with the Android Debug Bridge This book is an indispensable resource for every intermediate to advanced level Java developer now participating in Android development and for every seasoned mobile developer who wants to take full advantage of the newest Android platform and hardware Also look for Android Wireless Application Development Volume I Android Essentials ISBN 9780321813831 *The Android Developer's Cookbook* Ronan Schwarz, Phil Dutton, James Steele, Nelson To, 2013-07-02 Do you want to get started building apps for Android today s number one mobile platform Are you already building Android apps but want to get better at it The Android™ Developer s Cookbook Second Edition brings together all the expert guidance and code you ll need This edition has been extensively updated to reflect the other Android 4.2.2 releases You ll find all new chapters on advanced threading and UI development in app billing push messages and native development plus new techniques for everything from accessing NFC hardware to using Google Cloud Messaging Proven modular recipes take you from the basics all the way to advanced services helping you to make the most of the newest Android APIs and tools The authors fully updated code samples are designed to serve as templates for your own projects and components You ll learn best practice techniques for efficiently solving common problems and for avoiding pitfalls throughout the entire development lifecycle Coverage includes Organizing Android apps and integrating their activities Working efficiently with services receivers and alerts Managing threads including advanced techniques using AsyncTasks

and loaders Building robust intuitive user interfaces Implementing advanced UI features including Custom Views animation accessibility and large screen support Capturing playing and manipulating media Interacting with SMS websites and social networks Storing data via SQLite and other methods Integrating in app billing using Google Play services Managing push messaging with C2DM Leveraging new components and structures for native Android development Efficiently testing and debugging with Android's latest tools and techniques including LINT code analysis The Android™ Developer's Cookbook Second Edition is all you need to jumpstart any Android project and create high value feature rich apps that sell *Android Wireless Application Development* Lauren Darcey,Shane Conder,2012 The authors offer a learning resource to anyone who wishes to become a mobile developer using the Android platform The text covers application design development debugging packaging distribution much more

**Android User Interface Design** Ian G. Clifton,2015-11-21 Build Android 6 Material Design Apps That Are Stunningly Attractive Functional and Intuitive As Android development has matured and grown increasingly competitive developers have recognized the crucial importance of good design With Material Design Google introduced its most radical visual changes ever and made effective design even more essential Android 6 and the design support library continue to push mobile design forward In *Android User Interface Design Second Edition* leading Android developer and user experience UX advocate Ian G Clifton shows how to combine exceptional usability and outstanding visual appeal Clifton helps you build apps that new users can succeed with instantly apps that leverage users previous experience previous experience reflect platform conventions and never test their patience You won't need any design experience Clifton walks you through the entire process from wireframes and flowcharts to finished apps with polished animations and advanced compositing You'll find hands on case studies and extensive downloadable sample code including complete finished apps Integrate Material Design into backward compatible Android 6 apps Understand views the building blocks of Android user interfaces Make the most of wireframes and conceptual prototypes Apply user centered design throughout Master the essentials of typography and iconography Use custom themes and styles for consistent visuals Handle inputs and scrolling Create beautiful transition animations Use advanced components like spans and image caches Work with the canvas color filters shaders and image compositing Combine multiple views into efficient custom components Customize views to meet unique drawing or interaction requirements Maximize downloads by designing compelling app store assets Step by step this guide bridges the gap between Android developers and designers so you can collaborate on world class app designs or do it all yourself This well presented easy to grasp book gets to the heart of *Android User Interface Design* Well worth the reading time Dr Adam Porter University of Maryland Fraunhofer Center for Experimental Software Engineering Ian's grasp of Android is fantastic and this book is a great read for any developer or designer I've personally worked on 30 Android applications and I was learning new tips with every chapter Cameron Banga Lead Designer 9magnets LLC

**Android Wireless Application Development** Lauren Darcey,Shane Conder,2011 This is the eBook version of the printed book

Updated for the newest SDKs tools and hardware Android Wireless Application Development Second Edition delivers everything you need to create and market successful Android mobile apps Lauren Darcey and Shane Conder cover every step and present the principles of effective Android application design Every chapter has been updated for the newest Android SDKs tools utilities and hardware and all sample code has been overhauled and tested on devices from several leading companies with many new examples added For every Android development team member developers architects team leaders project managers testers QA specialists and even marketers

### **The Busy Coder's Guide to Advanced Android**

**Development** Mark L. Murphy, 2011 There are many Android programming guides that give you the basics This book goes beyond simple apps into many areas of Android development that you simply will not find in competing books Whether you want to add home screen app widgets to your arsenal or create more complex maps integrate multimedia features like the camera integrate tightly with other applications or integrate scripting languages this book has you covered Moreover this book has over 50 pages of Honeycomb specific material from dynamic fragments to integrating navigation into the action bar to creating list based app widgets It also has a chapter on using NFC the wireless technology behind Google Wallet and related services This book is one in CommonsWare's growing series of Android related titles including The Busy Coder's Guide to Android Development Android Programming Tutorials and the upcoming Tuning Android Applications Table of Contents WebView Inside and Out Crafting Your Own Views More Fun With ListViews Creating Drawables Home Screen App Widgets Interactive Maps Creating Custom Dialogs and Preferences Advanced Fragments and the Action Bar Animating Widgets Using the Camera Playing Media Handling System Events Advanced Service Patterns Using System Settings and Services Content Provider Theory Content Provider Implementation Patterns The Contacts ContentProvider Searching with SearchManager Introspection and Integration Tapjacking Working with SMS More on the Manifest Device Configuration Push Notifications with C2DM NFC The Role of Scripting Languages The Scripting Layer for Android JVM Scripting Languages Reusable Components Testing Production

### **Professional Android 4 Application Development**

Reto Meier, 2012-05 Programmer to programmer P 2 of cover *Introduction to Android Application Development 4th Edition* Joseph Anuzzi Jr, 2014-09-02 What Every Android™ App Developer Should Know Today Android Tools App UI Design Testing Publishing And More This fully reworked edition of a proven title is the most useful real world guide to building robust commercial grade Android™ apps The content is revised and updated for the latest Android 4.3 SDK and the newest development best practices Introduction to Android™ Application Development Android Essentials Fourth Edition covers all you need to quickly start developing professional apps for today's Android devices Three expert developers guide you through setting up your development environment designing user interfaces developing for diverse devices and optimizing your entire app development process from design through publication Updated throughout this title includes extensive coverage of the most useful new Android tools and utilities It adds an all new chapter on planning an amazing Android app

user experience plus extensive new coverage of unit testing dialogs preferences and app publishing Throughout key concepts are taught through clear up to date example code This edition offers Fully updated introductions to the latest Android 4 3 APIs tools utilities and best practices Up to date strategies for leveraging new Android capabilities while preserving compatibility Navigation patterns and code samples for delivering more intuitive user experiences Example based explanations of ActionBars DialogFragments and other key concepts Expert automated testing techniques to quickly improve code quality New Google Play Developer Console app publishing techniques that also offer more control For Android developers at all levels of experience this reference is now more valuable than ever Students instructors and self learners will especially appreciate new chapter ending questions and exercises carefully designed to test knowledge and deepen mastery Note This revamped newly titled edition is a complete update of Android tm Wireless Application Development Volume I Android Essentials Third Edition *Beginning Android Programming with Android Studio* Jerome DiMarzio,2016-10-24 A hands on introduction to the latest release of the Android OS and the easiest Android tools for developers As the dominant mobile platform today the Android OS is a powerful and flexible platform for mobile device The new Android 7 release New York Cheesecake boasts significant new features and enhancements for both smartphone and tablet applications This step by step resource takes a hands on approach to teaching you how to create Android applications for the latest OS and the newest devices including both smartphones and tablets Shows you how to install get started with and use Android Studio 2 the simplest Android developer tool ever for beginners Addresses how to display notifications create rich user interfaces and use activities and intents Reviews mastering views and menus and managing data Discusses working with SMS Looks at packaging and publishing applications to the Android market *Beginning Android Programming with Android Studio* starts with the basics and goes on to provide you with everything you need to know to begin to successfully develop your own Android applications **Kotlin / Android Studio 3.0 Development Essentials - Android 8 Edition** Neil Smyth, 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 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 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

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