

Advanced Android Application Development (4th Edition) (Developer's Library)

By Joseph Annucci Jr., Lauren Darcey, Shane Conder

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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

Annucci 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*.

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Editorial Review

Review

“This new edition of *Advanced Android™ Application Development* updates the definitive reference for Android developers, covering all major revisions of Android, including Android L. Whether you’re just getting started, or need to brush up on the latest features of Android, this should be the first book you reach for.”

—*Ray Rischpater, senior software engineer, Microsoft*

“This is the most comprehensive reference for programming Android. I still turn to it when I need to learn about a topic I am not familiar with.”

—*Douglas Jones, senior software engineer, Fullpower Technologies*

“The problem with many Android development titles is that they either assume the developer is completely new to development or is already an expert. *Advanced Android™ Application Development, Fourth Edition*, cuts the fluff and gets to the need to know of modern Android development.”

—*Phil Dutson, solution architect for mobile and UX, ICON Health & Fitness*

“*Advanced Android™ Application Development, Fourth Edition*, is an excellent guide for software developers, quality assurance personnel, and project managers who want to learn to plan, develop, and manage professional Android applications. The book explains several advanced Android topics through step-by-step running examples. The authors have done a great job explaining various Android APIs for threading, networking, location-based services, hardware sensors, animation, graphics, and more. This book is a classic investment.”

—*B.M. Harwani, author, The Android™ Tablet Developer’s Cookbook*

About the Author

Joseph Annucci, Jr., is a freelance software architect, graphic artist, writer, and technical reviewer. He usually can be found mastering the Android platform; implementing cutting-edge HTML5 capabilities; leveraging various cloud technologies; speaking in different programming languages; working with diverse frameworks; integrating with various social APIs; tinkering with peer-to-peer, cryptography, and computer vision algorithms; or creating stunningly realistic 3D renders. He is always on the lookout for disruptive Internet and mobile technologies and has multiple patent applications in process. He graduated from the University of California, Davis, with a B.S. in managerial economics and a minor in computer science, and he lives where much of the action is, Silicon Valley.

Lauren Darcey is responsible for the technical leadership and direction of a small software company specializing in mobile technologies, including Android, iOS, BlackBerry, Palm Pre, BREW, and J2ME, and consulting services. With more than two decades of experience in professional software production, Lauren is a recognized authority in application architecture and the development of commercial-grade mobile applications. Lauren received a B.S. in computer science from the University of California, Santa Cruz.

Shane Conder has extensive development experience and has focused his attention on mobile and embedded development for the past decade. He has designed and developed many commercial applications

for Android, iOS, BREW, BlackBerry, J2ME, Palm, and Windows Mobile—some of which have been installed on millions of phones worldwide. Shane has written extensively about the mobile industry and evaluated mobile development platforms on his tech blogs and is well known within the blogosphere. Shane received a B.S. in computer science from the University of California.

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