Android 6 for Programmers: An App-Driven Approach (3rd Edition)

Paul Deitel, Harvey Deitel, Alexander Wald

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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
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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.

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