

Android程序设计 (影印版)

新生代移动设备的Java编程



Programming

Android

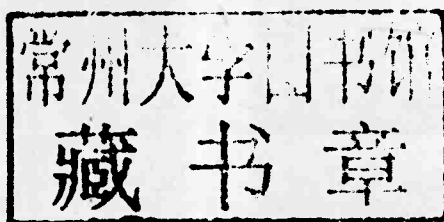
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*Zigurd Mednieks, Laird Dornin,
G. Blake Meike & Masumi Nakamura* 著

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*Zigurd Mednieks, Laird Dornin, G. Blake Meike,
and Masumi Nakamura*

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Preface

The purpose of this book is to enable you to create well-engineered Android applications that go beyond the scope of small example applications.

This book is for people coming to Android programming from a variety of backgrounds. If you have been programming iPhone or Mac OS applications in Objective-C, you will find coverage of Android tools and Java language features relevant to Android programming that will help you bring your knowledge of mobile application development to Android. If you are an experienced Java coder, you will find coverage of Android application architecture that will enable you to use your Java expertise in this newly vibrant world of client Java application development. In short, this is a book for people with some relevant experience in object-oriented languages, mobile applications, REST applications, and similar disciplines who want to go further than an introductory book or online tutorials will take them.

How This Book Is Organized

We want to get you off to a fast start. The chapters in the first part of this book will step you through using the SDK tools so that you can access example code in this book and in the SDK, even as you expand your knowledge of SDK tools, Java, and database design. The tools and basics covered in the first part might be familiar enough to you that you would want to skip to Part II where we build foundational knowledge for developing larger Android applications.

The central part of this book is an example of an application that uses web services to deliver information to the user—something many applications have at their core. We present an application architecture, and a novel approach to using Android's framework classes that enables you to do this particularly efficiently. You will be able to use this application as a framework for creating your own applications, and as a tool for learning about Android programming.

In the final part of this book, we explore Android APIs in specific application areas: multimedia, location, sensors, and communication, among others, in order to equip you to program applications in your specific area of interest.

By the time you reach the end of this book, we want you to have gained knowledge beyond reference material and a walk-through of examples. We want you to have a point of view on how to make great Android applications.

Conventions Used in This Book

The following typographical conventions are used in this book:

Italic

Indicates new terms, URLs, email addresses, filenames, and file extensions

Constant width

Used for program listings, as well as within paragraphs to refer to program elements such as variable or function names, databases, data types, environment variables, statements, and keywords

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Table of Contents

Preface	xiii
---------------	------

Part I. Tools and Basics

1. Your Toolkit	3
Installing the Android SDK and Prerequisites	3
The Java Development Kit (JDK)	4
The Eclipse Integrated Development Environment (IDE)	5
The Android SDK	7
Adding Build Targets to the SDK	8
The Android Development Toolkit (ADT) Plug-in for Eclipse	9
Test Drive: Confirm That Your Installation Works	12
Making an Android Project	12
Making an Android Virtual Device (AVD)	16
Running a Program on an AVD	19
Running a Program on an Android Device	20
Troubleshooting SDK Problems: No Build Targets	21
Components of the SDK	21
The Android Debug Bridge (adb)	21
The Dalvik Debug Monitor Server (DDMS)	21
Components of the ADT Eclipse Plug-in	23
Android Virtual Devices	25
Other SDK Tools	26
Keeping Up-to-Date	28
Keeping the Android SDK Up-to-Date	28
Keeping Eclipse and the ADT Plug-in Up-to-Date	29
Keeping the JDK Up-to-Date	29
Example Code	30
SDK Example Code	30
Example Code from This Book	30
On Reading Code	32

2. Java for Android	33
Android Is Reshaping Client-Side Java	33
The Java Type System	34
Primitive Types	34
Objects and Classes	35
Object Creation	35
The Object Class and Its Methods	37
Objects, Inheritance, and Polymorphism	39
Final and Static Declarations	41
Abstract Classes	45
Interfaces	46
Exceptions	48
The Java Collections Framework	52
Garbage Collection	55
Scope	56
Java Packages	56
Access Modifiers and Encapsulation	57
Idioms of Java Programming	59
Type Safety in Java	59
Using Anonymous Classes	62
Modular Programming in Java	65
Basic Multithreaded Concurrent Programming in Java	68
Synchronization and Thread Safety	68
Thread Control with wait() and notify() Methods	71
Synchronization and Data Structures	73
3. The Ingredients of an Android Application	75
Traditional Programming Models Compared to Android	75
Activities, Intents, and Tasks	77
Other Android Components	78
Service	79
Content Providers	79
BroadcastReceiver	82
Static Application Resources and Context	82
Application Manifests	83
A Typical Source Tree	84
Initialization Parameters in AndroidManifest.xml	84
Resources	87
The Android Application Runtime Environment	88
The Dalvik VM	89
Zygote: Forking a New Process	89
Sandboxing: Processes and Users	89
Component Life Cycles	90

The Activity Life Cycle	90
Packaging an Android Application: The .apk File	92
On Porting Software to Android	93
4. Getting Your Application into Users' Hands	95
Application Signing	95
Public Key Encryption and Cryptographic Signing	95
How Signatures Protect Software Users, Publishers, and Secure Communications	97
Signing an Application	98
Placing an Application for Distribution in the Android Market	105
Becoming an Official Android Developer	106
Uploading Applications in the Market	106
Getting Paid	107
Google Maps API Keys	108
Specifying API-Level Compatibility	109
Compatibility with Many Kinds of Screens	109
Testing for Screen Size Compatibility	110
Resource Qualifiers and Screen Sizes	110
5. Eclipse for Android Software Development	111
Eclipse Concepts and Terminology	112
Plug-ins	112
Workspaces	113
Java Environments	114
Projects	115
Builders and Artifacts	115
Extensions	115
Associations	117
Eclipse Views and Perspectives	117
The Package Explorer View	118
The Task List View	118
The Outline View	119
The Problems View	120
Java Coding in Eclipse	120
Editing Java Code and Code Completion	120
Refactoring	121
Eclipse and Android	122
Preventing Bugs and Keeping Your Code Clean	122
Static Analyzers	123
Applying Static Analysis to Android Code	127
Limitations of Static Analysis	130
Eclipse Idiosyncrasies and Alternatives	130

6. Effective Java for Android	133
The Android Framework	133
The Android Libraries	133
Extending Android	135
Organizing Java Source	140
Concurrency in Android	142
AsyncTask and the UI Thread	143
Threads in an Android Process	154
Serialization	156
Java Serialization	157
Parcelable	159
Classes That Support Serialization	162
Serialization and the Application Life Cycle	163

Part II. About the Android Framework

7. Building a View	167
Android GUI Architecture	167
The Model	167
The View	168
The Controller	169
Putting It Together	169
Assembling a Graphical Interface	171
Wiring Up the Controller	176
Listening to the Model	178
Listening for Touch Events	183
Listening for Key Events	186
Alternative Ways to Handle Events	187
Advanced Wiring: Focus and Threading	189
The Menu	193
8. Fragments and Multiplatform Support	197
Creating a Fragment	198
Fragment Life Cycle	201
The Fragment Manager	202
Fragment Transactions	203
The Compatibility Package	208
9. Drawing 2D and 3D Graphics	211
Rolling Your Own Widgets	211
Layout	212
Canvas Drawing	217

Drawables	228
Bitmaps	232
Bling	234
Shadows, Gradients, and Filters	237
Animation	238
OpenGL Graphics	243
10. Handling and Persisting Data	247
Relational Database Overview	247
SQLite	248
The SQL Language	248
SQL Data Definition Commands	249
SQL Data Manipulation Commands	252
Additional Database Concepts	254
Database Transactions	255
Example Database Manipulation Using sqlite3	255
SQL and the Database-Centric Data Model for Android Applications	259
The Android Database Classes	260
Database Design for Android Applications	261
Basic Structure of the SimpleVideoDbHelper Class	261
Using the Database API: MJAndroid	264
Android and Social Networking	264
The Source Folder (src)	266
Loading and Starting the Application	267
Database Queries and Reading Data from the Database	267
Modifying the Database	271

Part III. A Skeleton Application for Android

11. A Framework for a Well-Behaved Application	279
Visualizing Life Cycles	280
Visualizing the Activity Life Cycle	280
Visualizing the Fragment Life Cycle	292
The Activity Class and Well-Behaved Applications	295
The Activity Life Cycle and the User Experience	296
Life Cycle Methods of the Application Class	296
A Flowing and Intuitive User Experience Across Activities	299
Multitasking in a Small-Screen Environment	299
Tasks and Applications	299
Specifying Launch and Task Behavior	300

12. Using Content Providers	305
Understanding Content Providers	306
Implementing a Content Provider	307
Browsing Video with Finch	308
Defining a Provider Public API	309
Defining the CONTENT_URI	310
Creating the Column Names	312
Declaring Column Specification Strings	312
Writing and Integrating a Content Provider	314
Common Content Provider Tasks	314
File Management and Binary Data	316
Android MVC and Content Observation	318
A Complete Content Provider: The SimpleFinchVideoContentProvider	
Code	319
The SimpleFinchVideoContentProvider Class and Instance Variables	319
Implementing the onCreate Method	321
Implementing the getType Method	322
Implementing the Provider API	322
Determining How Often to Notify Observers	327
Declaring Your Content Provider	327
13. Exploring Content Providers	329
Developing RESTful Android Applications	330
A “Network MVC”	331
Summary of Benefits	333
Code Example: Dynamically Listing and Caching YouTube	
Video Content	334
Structure of the Source Code for the Finch YouTube Video Example	335
Stepping Through the Search Application	336
Step 1: Our UI Collects User Input	337
Step 2: Our Controller Listens for Events	337
Step 3: The Controller Queries the Content Provider with a managedQuery	
on the Content Provider/Model	338
Step 4: Implementing the RESTful Request	338
Constants and Initialization	338
Creating the Database	339
A Networked Query Method	339
insert and ResponseHandlers	352
File Management: Storing Thumbnails	353

Part IV. Advanced Topics

14. Multimedia	359
Audio and Video	359
Playing Audio and Video	360
Audio Playback	361
Video Playback	363
Recording Audio and Video	364
Audio Recording	365
Video Recording	368
Stored Media Content	369
15. Location and Mapping	371
Location-Based Services	372
Mapping	373
The Google Maps Activity	373
The MapView and MapActivity	374
Working with MapViews	375
MapView and MyLocationOverlay Initialization	375
Pausing and Resuming a MapActivity	378
Controlling the Map with Menu Buttons	379
Controlling the Map with the Keypad	381
Location Without Maps	382
The Manifest and Layout Files	382
Connecting to a Location Provider and Getting Location Updates	383
Updating the Emulated Location	386
16. Sensors, NFC, Speech, Gestures, and Accessibility	391
Sensors	391
Position	393
Other Sensors	395
Near Field Communication (NFC)	396
Reading a Tag	396
Writing to a Tag	403
P2P Mode	405
Gesture Input	406
Accessibility	407
17. Communication, Identity, Sync, and Social Media	411
Account Contacts	411
Authentication and Synchronization	414
Authentication	415

Synchronization	422
Bluetooth	429
The Bluetooth Protocol Stack	429
Bluez: The Linux Bluetooth Implementation	431
Using Bluetooth in Android Applications	431
18. The Android Native Development Kit (NDK)	445
Native Methods and JNI Calls	446
Conventions on the Native Method Side	446
Conventions on the Java Side	447
The Android NDK	448
Setting Up the NDK Environment	448
Compiling with the NDK	448
JNI, NDK, and SDK: A Sample App	449
Android-Provided Native Libraries	451
Building Your Own Custom Library Modules	453
Native Activities	456
Index	463

Tools and Basics

Part I shows you how to install and use your tools, what you need to know about Java to write good Android code, and how to design and use SQL databases, which are central to the Android application model, persistence system, and implementation of key design patterns in Android programs.