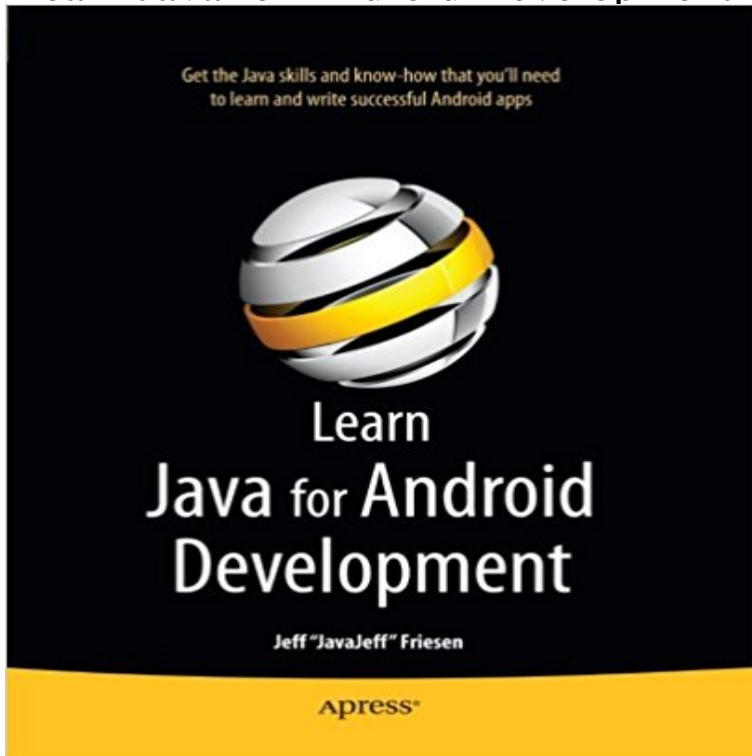


# Learn Java for Android Development



Android development is hot, and many programmers are interested in joining the fun. However, because this technology is based on Java, you should first obtain a solid grasp of the Java language and its foundational APIs to improve your chances of succeeding as an Android app developer. After all, you will be busy learning the architecture of an Android app, the various Android-specific APIs, and Android-specific tools. If you do not already know Java fundamentals, you will probably end up with a massive headache from also having to quickly cram those fundamentals into your knowledge base.

Learn Java for Android Development teaches programmers of any skill level the essential Java language and foundational Java API skills that must be learned to improve the programmers chances of succeeding as an Android app developer. Each of the books 10 chapters provides an exercise section that gives you the opportunity to reinforce your understanding of the chapters material. Answers to the books more than 300 exercises are provided in an appendix. Additionally, author Jeff Friesen has created six bonus chapters that you can download from his personal site, located at <http://tutortutor.ca/cgi-bin/makepage.cgi?books/ljfad>. Once you complete this book, you will be ready to dive into Android, and you can start that journey by obtaining a copy of Beginning Android 2.

What you'll learn The Java language: This book provides complete coverage of nearly every pre-Java version 7 language feature (native methods are briefly mentioned but not formally covered). Starting with those features related to classes and objects, you progress to object-oriented features related to inheritance, polymorphism, and interfaces. You then explore the advanced language features for nested types, packages, static imports, exceptions, assertions, annotations, generics, and

enums. Continuing, you investigate `strictfp`, class literals, `synchronized`, `volatile`, the enhanced for loop statement, autoboxing/unboxing, and transient fields. The book also briefly presents most (if not all) of Java version 7's language features, although not much is said about closures or modules (which were not finalized at the time of writing).

**Java APIs:** In addition to Object and APIs related to exceptions, you explore `Math`, `StrictMath`, `BigDecimal`, `BigInteger`, `Package`, `Boolean`, `Character`, `Byte`, `Short`, `Integer`, `Long`, `Float`, `Double`, `Number`, the `References` API, the `Reflection` API, `String`, `StringBuffer`, `System`, the `Threading` API, the `collections` framework, the `concurrency` utilities, the `internationalization` APIs, the `Preferences` API, `Random`, the `Regular Expressions` API, `File`, `RandomAccessFile`, `stream` classes, and `writer/reader` classes. You will also get a tiny taste of `Swing` in the context of `internationalization`.

**Tools:** You will learn how to use the JDKs `javac` (compiler), `java` (application launcher), `javadoc` (Java documentation generator), and `jar` (Java archive creator, updater, and extractor) tools. You will also receive an introduction to the `NetBeans` and `Eclipse` integrated development environments. Although you can develop Android apps without `NetBeans` or `Eclipse`, working with these IDEs is much more pleasant.

Who this book is for This book is for any programmer (including existing Java programmers and Objective-C [iPhone/iPad] programmers) of any skill level who needs to obtain a solid understanding of the Java language and foundational Java APIs before jumping into Android app development.

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**Java Basics for Android Development - Part 1 - Treehouse Blog** Learn Java for Android Development, Third Edition, is an update of a strong selling book that now includes a primer on Android app development (in Chapter.

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