The Java™ Tutorials

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Java Tutorials Learning Paths

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Are you a student trying to learn the Java language or a professional seeking to expand your skill set? If you are feeling a bit overwhelmed by the breadth of the Java platform, here are a few suggested learning paths to help you get the most from your Java learning experience.



Collections - 使用和扩展Java集合框架 Lambda Expressions: 了解如何以及为什么在应用程序中使用Lambda表达式 Aggregate Operations: 探讨聚合操作、流和Lambda表达式如何协同工作, 以提供强大的过滤功能

打包程序为JAR文件 - 创建和签名JAR文件

Internationalization — 设计软件介绍,容易地适配(本地化)到各种语言和区域 Reflection - 表示当前JVM中(反射)类型、接口、对象的API Security - 保护应用程序免受恶意软件的攻击

JavaBeans - Java平台的组件技术

The Extension Mechanism - 如何使自定义的APIs 用于在Java平台上运行的所有应用程序 Generics - 类型系统的增强,支持各种类型的对象操作, 并提供编译时类型安全性

New To Java



The following trails are most useful for beginners:

- Getting Started An introduction to Java technology and lessons
 on installing Java development software and using it to create a
 simple program.
- Learning the Java Language Lessons describing essential concepts such as classes, objects, inheritance, datatypes, generics, and packages.
- <u>Essential Java Classes</u> Lessons on <u>exceptions</u>, <u>basic input/output</u>, <u>concurrency</u>, <u>regular expressions</u>, and the platform environment.

学习Java语言 - 描述基础概念(类、对象、继承、数据类型、泛型、包) 基础的Java类 - Object、数字/字符串、异常、基本I/O、集合、并发、正则表达式

Building On The Foundation



Ready to dive deeper into the technology? See the following topics:

- Collections Lessons on <u>using and extending</u> the <u>Java Collections</u>

 Framework
- Lambda Expressions: Learn how and why to use Lambda
 Expressions in your applications.
- Aggregate Operations: <u>Explore how Aggregate Operations</u>.
 Streams, and <u>Lambda Expressions</u> work together to provide powerful <u>filtering</u> capabilities
- Packaging Programs In JAR Files Lesson on <u>creating and signing</u>
 JAR files.
- Internationalization An introduction to designing software so that it
 can be easily be adapted (localized) to various languages and
 regions.
- Reflection An API that represents ("reflects") the classes.
 interfaces, and objects in the current Java Virtual Machine.
- Security Java platform features that <u>help protect applications from</u> malicious software.
- JavaBeans The Java platform's component technology.
- The Extension Mechanism How to make custom APIs available to all applications running on the Java platform.
- Generics <u>An enhancement to</u> the type system that supports operations on <u>objects of various types</u> while providing <u>compile-time</u> <u>type safety</u>.

Cherish the Client?



If you want to focus on developing Java based desktop solutions and rich Internet applications, see the following topics:

- Creating a GUI with Swing A comprehensive introduction to GUI creation on the Java platform.
- Deployment How to package applications and applets using JAR files, and deploy them using Java Web Start and Java Plug-in.
- 2D Graphics How to display and print 2D graphics in applications.
- Full-Screen Exclusive Mode API How to write applications that more fully utilize the user's graphics hardware.

Fervor Over Server!



If you are interested in <u>acquiring skills important for</u> middleware, server-side, or web application development, see the following trails:

- JDBC Database Access <u>Introduces an API for connectivity between the Java applications and</u> a wide range of databases and a data sources.
- JMX Java Management Extensions provides a standard way of managing resources such as applications, devices, and services.
- JNDI Java Naming and Directory Interface enables accessing the Naming and Directory Service such as <u>DNS and LDAP</u>.
- JAXP Introduces the Java API for XML Processing (JAXP) 1.4 technology.
- RMI The Remote Method Invocation API allows an object to invoke methods of an object running on another Java Virtual Machine.
- Concurrency The Java platform has <u>APIs to help you develop</u> multi-threaded programs.

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