语言和工具包

The java.lang.* and java.util.* Packages

提供几乎所有应用程序都使用的基本功能
The java.lang and java.util packages provide basic functionality that is used by almost all applications. Other packages with names that begin with java.lang and java.util provide supplemental APIs for specific 提供特定功能的补充APIs features.

Tutorials and Programmer's Guides

• The Java Tutorial 教程和程序员指南

API Enhancements

- Enhancements in Java SE 7
- Enhancements in Java SE 6
- Enhancements in J2SE 5.0
- Enhancements in J2SDK 1.4
- Enhancements in J2SDK 1.3

Package List

Package	Enhancements	More Information
iava.lang Provides classes that are fundamental to the design of the Java programming language such as String, Math, and basic runtime support for threads and processes. 提供Java编程语言设计的基础类	J2SE 5.0, J2SDK 1.4, and J2SDK 1.3	Package Version Identification Location- Independent Access to 防问资源 Resources Chained 链式异常 Exception Facility
java.lang.annotation Provides library support for the Java programming language annotation facility.	New in J2SE 5.0	• <u>Using</u> <u>Annotations</u>
java.lang.instrument Provides services that allow Java programming language agents to instrument programs running on the JVM.	<u>Java SE 6</u> and <u>J2SE 5.0</u>	Instrumenting Applications
java.lang.management Provides the management interface for monitoring and management of the JVM as well as the operating system on which the JVM is running.	Java SE 6	<u>Monitoring</u> <u>and</u> <u>Management</u>
java.lang.ref Provides reference-object classes, which support a limited degree of interaction with the garbage collector.	New in J2SDK 1.3	No additional information
java.lang.reflect Provides classes and interfaces for obtaining reflective information about classes and objects.	Java SE 6, J2SE 5.0, and J2SDK 1.4 提供集合机	● <u>Reflection</u> APIs 架,格式 数据
java.util Provides the collections framework, formatted printing and scanning, array manipulation utilities, event model, date and time facilities, internationalization, and miscellaneous utility classes.	Java SE 6, 操作工具集 J2SE 5.0, and 型、日期和 近、国际位 月工具类	时间设 ● <u>Collections</u>
java.util.concurrent java.util.concurrent.atomic java.util.concurrent.locks Provides utility classes used in concurrent programming, including support for atomic updates of single variables and a locking framework which supplements	New in J2SE 5.0 提供并发编程中使用的实用工包括对单个变量的原子更新支 言层面补充的锁框架	

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language-lev el synchronization.		
java.util.jar java.util.zip Provides classes for reading and writing the standard ZIP and GZIP file formats as well as the JAR (Java ARchive) file format, which is based on the standard ZIP file format with an optional manifest file.	Java SE 6 and J2SDK 1.3	• <u>Jav a Archiv e</u> (JAR) Files
java.util.logging Provides support to maintain and service software at customer sites.	J2SE 5.0 and J2SDK 1.4	• <u>Java Logging</u> <u>APIs</u>
java.util.regex Provides classes for matching character sequences against patterns specified by regular expressions.	New in J2SDK 1.4	• Regular Expressions Tutorial
java.util.prefs Provides classes to store and retrieve user and system preference and configuration data.	J2SDK 1.4	• <u>Preferences</u> <u>API</u>
java.util.spi Service provider classes for the java.util package.	New in Jav a SE 6	No additional information

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