

「一入 Java 深似海」系列课程 - 第八期

第一节：Java I/O 流 (Streams)

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「一入 Java 深似海」系列课程

- 讲师信息

小马哥，Java 劝退师，Apache 和 Spring Cloud 等知名开源架构成员。

- 微博：@mercyblitz

- GitHub： <https://github.com/mercyblitz>

- 课程详情： <https://segmentfault.com/n/1330000017785588>

- 课件资源： <https://github.com/mercyblitz/segmentfault-lessons/>



小马哥 VIP 交流群

扫一扫二维码，加入群聊。

主要议题

- Java I/O 字节流 (Byte Streams)
- Java I/O 字符流 (Character Streams)
- Java I/O 流操作

Java I/O Byte Streams

Java I/O Byte Streams

- 基本概念

Programs use byte streams to perform input and output of 8-bit bytes. All byte stream classes are descended from `InputStream` and `OutputStream`. There are many byte stream classes:

- 直接实现

- 文件 - `FileInputStream/FileOutputStream`
- 数组 - `ByteArrayInputStream/ByteArrayOutputStream`

- 装饰器模式实现

Java I/O Byte Streams

- 装饰器模式实现
 - 缓冲 - BufferedInputStream/BufferedOutputStream
 - 数据 - DataInputStream/DataOutputStream
 - 过滤器 - FilterInputStream/FilterOutputStream
 - 对象 - ObjectInputStream/ObjectOutputStream
 - 管道 - PipedOutputStream/PipedOutputStream

Java I/O Character Streams

Java I/O Character Streams

- 基本概念

The Java platform stores character values using **Unicode** conventions. Character stream I/O automatically translates this internal format to and from the local character set. In Western locales, the local character set is usually an 8-bit superset of ASCII. For most applications, I/O with character streams is no more complicated than I/O with byte streams. Input and output done with stream classes automatically translates to and from the local character set. A program that uses character streams in place of byte streams automatically adapts to the local character set and is ready for internationalization — all without extra effort by the programmer.

If internationalization isn't a priority, you can simply use the character stream classes without paying much attention to character set issues. Later, if internationalization becomes a priority, your program can be adapted without extensive recoding.

Java I/O Character Streams

- 直接实现
 - 文件 - FileInputStream/FileOutputStream
 - 字符串 - StringReader/StringWriter
- 装饰器模式实现
 - 缓冲 - BufferedReader/BufferedWriter
 - 管道 - PipedReader/PipedWriter

Java I/O 流操作

Java I/O 流操作

- 扫描 (Scanning)
- 格式化 (Formatting)
- 命令行交互 (Command-Line)
- 数据流操作 (Data Streams)
- 对象序列化操作 (Object Streams)

下期预告

Java 文件系统

谢谢观看