

## Seminar Abstract

# Advanced Programming in Java™

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### Course Overview:

This course covers a number of more advanced Java topics most of which were introduced in JDK1.1. Lab time is included. The course is not hardware or operating system-specific.

**Course Length:** 2 days.

### Goals:

Provided students meet the prerequisites, at the end of the course they should have a good understanding of the following:

- Documentation comments and the production of HTML-based documentation using javadoc
- The creation of JAR files and their use by applications and applets
- Advanced text formatting options
- Multithreading
- Conversion of objects to/from storage (serialization)
- Basic communication via sockets
- The basics of internationalization

### Who Should Attend:

Java Programmers and technical managers who want to go beyond the basics of Java.

### Prerequisites:

This course follows-on from the course *Programming in Java*. Attendees are expected to be comfortable with the following concepts and the syntax required to express them in Java:

- Basic Language Elements
- Looping and Testing
- Methods
- References, Strings, and Arrays

- Classes
- Inheritance
- Exception handling
- Input and Output
- Packages
- Interfaces

Experience in writing applets will be useful but is not necessary.

**Materials:**

- *Advanced Programming in Java*– This manuscript was written specifically for teaching. It serves as a useful reference once the course has been completed.

**Detailed Topics:**

The topics covered include:

- `java.text` formatting facilities
- Object copying
- Serialization
- Multithreading
- Sockets
- Documentation comments and `javadoc`
- Java Archive (JAR) files
- Introduction to Internationalization