

Seminar Abstract

Advanced Programming in Java™

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Course Overview:

This course covers a number of more advanced Java topics. Lab time is included. The course is not hardware or operating system-specific.

Course Length: 1–2 days.

Goals:

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

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

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

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:

- Multithreading
- Serialization
- Sockets
- Object copying
- Documentation comments and javadoc
- Java Archive (JAR) files