



Java : Lambdas, Streams and Dates

Duration 2 day(s) (NOUV-JAVA8-02)

Java 8 for Java developers

Description

Java 8 is not a simple update of Java 7. It is on the contrary a real revolution! By incorporating for the first time functional programming elements into language (lambda expressions, streams ...), Java 8 profoundly modifies the way we design and develop applications, and strongly impacts existing APIs. Are you ready to take advantage of these new features? This course is for Java developers who want to discover and gain hands-on experience with the new features of Java 8. In two days, you'll learn how to use lambda expressions, how to handle data streams efficiently with Streams, how to manipulate dates with the new Date & Time API, and more!

Goals

- To be interested in the principles of functional programming
- Master lambda expressions and method references
- Implement Streams to manipulate data streams
- Implement "traits" using default methods
- Understand the new Date & Time API (JSR 310)
- Discover the thousand and one improvements of the Java API

Public

- Java developer
- Technical leader

Prerequisites

- Professional practice of Java language

Structure

50% Theory, 50% Practice

Program

Day 1: Lambda Expressions, Default Methods

- The Java revolution 8
- Principles of functional programming
- Anatomy of a Lambda Expression
- References of methods
- Default methods
- Feature oriented programming

Day 2: Streams, Date & Time API

- Stream concept
- Data Generation
- Transformation and filtering
- Collectors and terminal operations
- The Date & Time API (JSR 310)
- The thousand and one improvements of Java