Prerequisites

This seminar was developed for software developers who already work with Java and want to become productive with Kotlin quickly. Participants should be comfortable with Java syntax, object-oriented programming, collections, nested classes, generics, and basic functional programming concepts. No previous experience with Kotlin is required.

Duration

This seminar includes eight hours of focused training and hands-on practice.

Premium Training

This premium seminar can be delivered in Hebrew or English, online or in a hybrid format. The content can be adapted to the participants' Java experience, development environment, and the type of Kotlin applications they plan to develop.

The Lecturer

Haim Michael, an experienced software development trainer, lecturer, and consultant with more than 30 years of teaching experience, delivers this seminar. He has extensive experience teaching Java and Kotlin and helps experienced Java developers move quickly from familiar Java concepts to idiomatic Kotlin. Haim has more than 30 years of experience with Java and more than 12 years of experience with Kotlin.

The Topics

This seminar fast-forwards experienced Java developers into Kotlin by focusing on the concepts that differ most from Java, while continuously mapping new Kotlin constructs to familiar Java mental models. The seminar emphasizes practical, idiomatic Kotlin and includes the following topics:

Kotlin for Java Developers

Kotlin Syntax and Type Inference

val, var, and Immutability

Null Safety and Nullable Types

Smart Casts and Type Checks

Functions, Default Arguments, and Named Arguments

Extension Functions

Properties and Constructors

Classes, Interfaces, and Inheritance

Nested Classes

Data Classes

Object Declarations and Companion Objects

Sealed Classes and Sealed Interfaces

Collections and Collection Operations

Lambdas and Higher-Order Functions

Java-Kotlin Interoperability

We can adapt the seminar to your team's Java background, technology stack, and intended Kotlin use cases. The hands-on exercises can also be customized around representative Java code from your organization so participants practice translating familiar patterns into concise, idiomatic Kotlin.

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