**Prerequisites**

This seminar was developed for software developers who already work with TypeScript and want to become productive with Kotlin quickly. Participants should be comfortable with TypeScript syntax, types and interfaces, classes, generics, arrays and collections, functions, and basic asynchronous 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' TypeScript 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 TypeScript and Kotlin and helps experienced TypeScript developers move quickly from familiar TypeScript concepts to idiomatic Kotlin. Haim has decades of experience teaching software development technologies and more than 12 years of experience with Kotlin.

**The Topics**

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

Kotlin for TypeScript Developers

Kotlin Syntax and Type Inference

val, var, and Immutability

Null Safety: Nullable Types vs null and undefined

Smart Casts, Type Checks, and when Expressions

Functions, Default Arguments, and Named Arguments

Extension Functions

Properties and Constructors

Classes, Interfaces, and Inheritance

Data Classes and Destructuring

Object Declarations and Companion Objects

Sealed Classes and Sealed Interfaces

Generics and Variance

Collections and Collection Operations

Lambdas and Higher-Order Functions

Coroutines and suspend Functions

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

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