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Sign up

Introductory training in Scala and functional programming

1 day (7 hours)

Presentation

Would you like to get started with Scala and improve your skills? This course will give you the knowledge you need to read, understand and write Scala programs on a daily basis. During this session, we'll also explore the functional paradigm inseparable from Scala. We'll review the language's simple and advanced features. We'll also map out the Scala ecosystem. You'll also discover functional programming through pure functions, traits and monadic data structures. This course will also teach you about control structures and unit testing.

Objectives

- Understand and be able to do functional programming in Scala
- Know the tools and ecosystem needed to create a Scala project
- Write code that meets today's quality requirements

Target audience

Developers

Prerequisites

- Knowledge of an object-oriented language such as Java or Python
- Please bring your machines and install
 - JDK ? 8
 - IntelliJ IDEA + Scala plugin

Introduction to Scala training program

and functional programming

Introduction: variables and general syntax

Scala build tool (SBT)

Hello world

Control structures

Functional programming (FP)

- Pure functions
- Features
- Pattern matching
- Basic monadic data structures (List, Either, Option, Try)
- Transforming collections

Implicit

Unit testing

Companies concerned

This course is aimed at companies, large or small, wishing to train their teams in a new, advanced computer technology.

Teaching methods

Practical course: 60% Practical, 40% Theory. Training material distributed in digital format to all participants.

Organization

The course alternates theoretical input from the trainer, supported by examples, with brainstorming sessions and group work.

Validation

At the end of the session, a multiple-choice questionnaire verifies the correct acquisition of skills.

Sanction

A certificate will be issued to each trainee who completes the course.