Scala: The Big Picture

INTRODUCTION

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Overview

Why learn Scala?

What we will learn

Installation

Scala REPL

IntelliJ Scala Plugin

Why learn Scala

Functional and Object Oriented

Use of Immutable Data Structures

Rich Collections Library

Better Concurrency Support

Short and Expressive

Java Example

```java
public static List<Integer> getEvenNumbersMultpliedBy(List<Integer> numbers) {
    List<Integer> results = new ArrayList<>();
    for (int number: numbers) {
        if (number % 2 == 0) {
            int newNumber = number * 10;
            results.add(newNumber);
        }
    }
    return results;
}
```

Scala Example

```
def evenNumbersMultiplied(numbers: List[Integer]) = numbers.filter(_ %2 == 0).map(_ * 10)
```

What We Will Learn

Functional Programming Concepts

First Interaction with Scala

Functions

Classes

Null Checks and Error Handling

What We Will Learn (contd.)

Pattern Matching

Collections

Concurrency

What's Next?

Installation

Java 8 prerequisite

Scala on your machine

IntelliJ IDEA

Scala IntelliJ plugin

Summary

Reasons to learn Scala

Topics in this course

Installation process