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# JUST ENOUGH SCALA

Get hands-on experience

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“Cloudera’s instructor was excellent, offering clear and concise training that was easy to understand. His wide-ranging peripheral knowledge helped apply the course materials to real-world situations. I look forward to attending another course.”

Comscore  
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Cloudera University’s one-day Scala training course will teach you the key language concepts and programming techniques you need so that you can concentrate on the subjects covered in Cloudera’s Spark-related training courses without also having to learn a complex programming language at the same time.

Scala is a programming language that is a superset of Java, blending the object-oriented and the functional programming paradigms. The language is complex and could take a semester or more to master. This class focuses only on the elements that are necessary to be able to program in Cloudera’s training courses.

## Get hands-on experience

Through instructor-led discussion or OnDemand videos, as well as hands-on exercises, participants will learn:

- \_ What Scala is and how it differs from languages such as Java or Python
- \_ Why Scala is a good choice for Spark programming
- \_ How to use key language features such as data types, collections, and flow control
- \_ How to implement functional programming solutions in Scala
- \_ How to work with Scala classes, packages, and libraries

## What to expect

Basic knowledge of programming concepts such as objects, conditional statements, and looping is required. This course is best suited to students with Java programming experience. Those with experience in another language may prefer the Just Enough Python course. Basic knowledge of Linux is assumed.

Please note that this course does not teach big data concepts, nor does it cover how to use Cloudera software. Instead, it is meant as a precursor for one of our developer-focused training courses that provide those skills.

## Course Contents

### 1. Introduction

#### 2. Scala Overview

- \_Introducing Scala
- \_Scala's Role in Distributed
- \_Data Processing
- \_The Motivation for Scala

#### 3. Scala Basics

- \_Key Scala Concepts
- \_Programming in Scala
- \_Putting Scala Basics to Work

#### 4. Working with Data Types

- \_Overview of Scala Variables
- \_Operating with Numeric Types
- \_Building Boolean Expressions
- \_Working with Strings

#### 5. Grouping Data Together

- \_Storing Elements of Different Types
- \_Overview of Scala Collection Types
- \_Creating a Collection of Unique Elements
- \_Fast Access to Head of Collection
- \_Fast Access to Arbitrary Elements
- \_Fast Access with a Key
- \_Common Collection Type Conversions

#### 6. Flow Control in Scala

- \_Looping
- \_Using Iterators
- \_Writing Functions
- \_Passing Functions as Arguments
- \_Collection Iteration Methods
- \_Pattern Matching
- \_Processing Data with Partial Functions

#### 7. Using and Creating Libraries

- \_Using Classes and Objects
- \_Creating and Using Packages
- \_Importing Part of a Package

#### 8. Conclusion