

# Getting Productive with Advanced Scala

Developer to Developer Training Series





## Course Outline

The 2 day Advanced Scala course is aimed at developers who have been using Scala for at least six months. They understand Scala syntax and language constructs. Its distinctive objectoriented characteristics and on to functional programming styles and pattern matching as applied to Scala's extensive collections framework.

This course takes a step further. It is designed to help developers fully understand topics such as advanced objectfunctional programming, the power of Scala's type system, implicits, etc. The course also covers how to leverage these features to create

well designed libraries or DSL's utilizing proven best practices. The course has a practical focus, mixing presentation with indepth handson labs and exercises.



## Proposed Structure

Day 1	Day 2
<b>Advanced OOP</b>	<b>Implicits</b>
◆ Recursion / Tail Recursion	◆ Implicit conversions
◆ Partial functions	◆ Implicit classes
◆ Higher order functions	◆ Pimp my library
◆ Partially applied functions	◆ Class tags
◆ Folding	
<b>Type System</b>	<b>DSLs</b>
◆ Custom value classes	◆ Internal DSL
◆ Type Parameters	◆ Control abstractions
◆ Variance	
◆ Bounds	
◆ Type members	

Actors	Custom collections
◆ Scala actors	◆ Builders
◆ Lifecycle	◆ Like traits
◆ Linking actors	
◆ Designing with actors	



## Course Prerequisites

Prerequisites: A basic knowledge of Scala as covered in the "Get Productive with Scala" course with at least two months practical experience in developing with Scala. Students should bring their own laptop with Java 6 or higher installed.

- ◆ For more information on the course or a discussion on your custom need, send a mail to [info@knoldus.com](mailto:info@knoldus.com)