

Sbt In Action The Simple Scala Build Tool

Scalatra in Action
Scala Design Patterns
Scala in Depth
Play for Scala
Lift Cookbook
Programming Scala
High Performance Spark
Professional Scala
Learning Akka
Sbt in Action
Akka in Action
Behavior Trees in Robotics and AI
Scala from Scratch: Exploration
Learning Play! Framework
2
Functional Programming Patterns in Scala and Clojure
Introducing Play Framework
JUnit Pocket Guide
Scala Programming for Big Data Analytics
Lift in Action
Scala in Action
Scala for the Impatient
The Old Tree
Scala Programming Projects
Play for Java
Perfectly Reflected
Divorce Busting
Ignore Your Customers (and They'll Go Away)
The Cognitive Behavioral Workbook for Depression
Sbt in Action
Introduction to JVM Languages
Mastering Apache Spark
Spark in Action
Netty in Action
Building Applications with Scala
Scala Cookbook
Getting Started with SBT for Scala
Functional Programming in Scala
Scala for Data Science
Mastering Akka
Scala Reactive Programming

Scalatra in Action

Explore the Java Virtual Machine with modern programming languages
About This Book
This guide provides in-depth coverage of the Java Virtual Machine and its features
Filled with practical examples, this book will help you understand the core concepts of Java, Scala, Clojure, Kotlin, and Groovy
Work with various programming paradigms and gain

Download Ebook Sbt In Action The Simple Scala Build Tool

knowledge about imperative, object-oriented and functional programming Who This Book Is For This book is meant for programmers who are interested in the Java Virtual Machine (JVM) and want to learn more about the most popular programming languages that can be used for JVM development. Basic practical knowledge of a modern programming language that supports object-oriented programming (JavaScript, Python, C#, VB.NET, and C++) is assumed. What You Will Learn Gain practical information about the Java Virtual Machine Understand the popular JVM languages and the Java Class Library Get to know about various programming paradigms such as imperative, object-oriented, and functional Work with common JVM tools such as Eclipse IDE, Gradle, and Maven Explore frameworks such as SparkJava, Vert.x, Akka and JavaFX Boost your knowledge about dialects of other well-known programming languages that run on the JVM, including JavaScript, Python, and Ruby In Detail Anyone who knows software development knows about the Java Virtual Machine. The Java Virtual Machine is responsible for interpreting Java byte code and translating it into actions. In the beginning, Java was the only programming language used for the JVM. But increasing complexity of the language and the remarkable performance of the JVM created an opening for a new generation of programming languages. If you want to build a strong foundation with the Java Virtual Machine and get started with popular modern programming languages, then this book is for you. The book will begin with a general introduction of the JVM and its features, which are common to the JVM languages, helping you get abreast with its concepts. It will then dive into

Download Ebook Sbt In Action The Simple Scala Build Tool

explaining languages such as Java, Scala, Clojure, Kotlin, and Groovy and will show how to work with each language, their features, use cases, and pros and cons. By writing example projects in those languages and focusing on each language's strong points, it will help you find the programming language that is most appropriate for your particular needs. By the end of the book, you will have written multiple programs that run on the Java Virtual Machine and know about the differences between the various languages. Style and approach This practical, example-filled guide will help you get started with the JVM and some of its most popular languages.

Scala Design Patterns

Working with big data can be complex and challenging, in part because of the multiple analysis frameworks and tools required. Apache Spark is a big data processing framework perfect for analyzing near-real-time streams and discovering historical patterns in batched data sets. But Spark goes much further than other frameworks. By including machine learning and graph processing capabilities, it makes many specialized data processing platforms obsolete. Spark's unified framework and programming model significantly lowers the initial infrastructure investment, and Spark's core abstractions are intuitive for most Scala, Java, and Python developers. Spark in Action teaches readers to use Spark for stream and batch data processing. It starts with an introduction to the Spark architecture and ecosystem followed by a taste of Spark's command line interface.

Download Ebook Sbt In Action The Simple Scala Build Tool

Readers then discover the most fundamental concepts and abstractions of Spark, particularly Resilient Distributed Datasets (RDDs) and the basic data transformations that RDDs provide. The first part of the book covers writing Spark applications using the the core APIs. Readers also learn how to work with structured data using Spark SQL, how to process near-real time data with Spark Streaming, how to apply machine learning algorithms with Spark MLlib, how to apply graph algorithms on graph-shaped data using Spark GraphX, and an introduction to Spark clustering. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications.

Scala in Depth

"Lift in Action" is a step-by-step exploration of the Lift Web framework. It presents the core of the Lift framework along with enough Scala to get started. Then, the carefully crafted, well-explained, progressive examples quickly have readers building something real.

Play for Scala

Discover how to create exceptional customer service and a superior customer experience, learning from the greatest companies of our time. When it comes to delivering great customer service and customer experience, many companies miss the mark. But there's no reason this should include you and your company. Ignore Your Customers (and They'll Go

Download Ebook Sbt In Action The Simple Scala Build Tool

Away) spells out, step by step, how to craft a customer service culture and customer experience so powerful that they'll transform your organization and boost your company's bottom line. You'll enjoy inspirational, often hilarious, tales from the trenches as author Micah Solomon, one of the world's best-known customer service consultants, relates hands-on adventures about assessing and improving customer service in various industries. You'll spend time behind the scenes with Zappos CEO Tony Hsieh and discover how the company delivers "wow" customer service. From Richard Branson, you'll learn how Virgin brands deliver authentic customer service (avoiding what Branson calls "Stepford Customer Service") and Branson's secrets for turning social media attackers into brand promoters. Drawing on a wealth of stories personally assembled from today's most innovative and successful companies, including Amazon, Cleveland Clinic, Drybar, USAA Insurance, and The Ritz-Carlton Hotel Company, Solomon reveals what it takes to turn a ho-hum customer interaction into one that drives customer engagement and lifelong loyalty.

Lift Cookbook

Write modern, scalable, and reactive applications with the power of Scala About This Book Delves into the intricacies of functional reactive programming with Scala Explores frameworks like Akka, Play and Slick used to develop efficient applications A step by step guide with plenty of examples showing practical implementation of essential concepts Who This Book Is For If you are a Java or JVM developer who wants to

Download Ebook Sbt In Action The Simple Scala Build Tool

use Scala to build reactive functional applications for the JVM platform, then this book is for you. Prior knowledge of Java or functional programming would help. No Scala knowledge is required. What You Will Learn Use Akka to create a chat service for your app Equip yourself with the techniques and tools to build reports and build database persistence with Scala and Slick Develop a customer-facing Rest API that makes use of Scala and Spray Make use of the Scala web development principles and scale up the architecture of your application Get familiar with the core principles and concepts of Functional Programming Use the Play framework to create models, controllers, and views Develop reactive backing frameworks by writing code with RxScala Discover what proper testing entails with Scala using behavior-driven development In Detail Scala is known for incorporating both object-oriented and functional programming into a concise and extremely powerful package. However, creating an app in Scala can get a little tricky because of the complexity the language has. This book will help you dive straight into app development by creating a real, reactive, and functional application. We will provide you with practical examples and instructions using a hands-on approach that will give you a firm grounding in reactive functional principles. The book will take you through all the fundamentals of app development within Scala as you build an application piece by piece. We've made sure to incorporate everything you need from setting up to building reports and scaling architecture. This book also covers the most useful tools available in the Scala ecosystem, such as Slick, Play, and Akka, and a whole lot more. It will help you

Download Ebook Sbt In Action The Simple Scala Build Tool

unlock the secrets of building your own up-to-date Scala application while maximizing performance and scalability. Style and approach This book takes a step-by-step approach to app development with Scala. It will place special emphasis on functional language. It will teach you the core benefits of Scala and the fundamentals of functional programming by developing a robust application.

Programming Scala

Master the art of creating scalable, concurrent, and reactive applications using Akka About This Book This book will help you cure anemic models with domain-driven design We cover major Akka programming concepts such as concurrency, scalability, and reactivity You will learn concepts like Event Sourcing and CQRS via Akka Persistence, Akka Streams, Akka Http as well as Akka Clustering Who This Book Is For If you want to use the Lightbend platform to create highly performant reactive applications, then this book is for you. If you are a Scala developer looking for techniques to use all features of the new Akka release and want to incorporate these solutions in your current or new projects, then this book is for you. Expert Java developers who want to build scalable, concurrent, and reactive application will find this book helpful. What You Will Learn Use Akka actors to enable parallel execution Build out domain-driven design based components like entities and aggregates Respond to command requests on that aggregate root that affect the internal state Leverage Akka Persistence, protobuf and Cassandra to save the

Download Ebook Sbt In Action The Simple Scala Build Tool

persistent state of you entities Build out complex processing graphs with the Graph Builder DSL Understand the dynamic push/pull nature of backpressure handling within Akka Streams Route HTTP requests to an actor and return a response Deploy actor instances across a set of nodes via ConductR for high availability In Detail For a programmer, writing multi-threaded applications is critical as it is important to break large tasks into smaller ones and run them simultaneously. Akka is a distributed computing toolkit that uses the abstraction of the Actor model, enabling developers to build correct, concurrent, and distributed applications using Java and Scala with ease. The book begins with a quick introduction that simplifies concurrent programming with actors. We then proceed to master all aspects of domain-driven design. We'll teach you how to scale out with Akka Remoting/Clustering. Finally, we introduce ConductR as a means to deploy to and manage microservices across a cluster. Style and approach This comprehensive, fast-paced guide is packed with several real-world use cases that will help you understand concepts, issues, and resolutions while using Akka to create highly performant, scalable, and concurrency-proof reactive applications.

High Performance Spark

Still recovering from her earlier brush with death, Alex's source of strength and comfort is Callum, still locked in a sad half-life after drowning in the river Fleet that flows into the Thames. And she needs all the

Download Ebook Sbt In Action The Simple Scala Build Tool

strength and comfort she can get but someone is out to make her life a misery.

Professional Scala

Summary Akka in Action is a comprehensive tutorial on building message-oriented systems using Akka. The book takes a hands-on approach, where each new concept is followed by an example that shows you how it works, how to implement the code, and how to (unit) test it. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Akka makes it relatively easy to build applications in the cloud or on devices with many cores that efficiently use the full capacity of the computing power available. It's a toolkit that provides an actor programming model, a runtime, and required support tools for building scalable applications. About the Book Akka in Action shows you how to build message-oriented systems with Akka. This comprehensive, hands-on tutorial introduces each concept with a working example. You'll start with the big picture of how Akka works, and then quickly build and deploy a fully functional REST service out of actors. You'll explore test-driven development and deploying and scaling fault-tolerant systems. After mastering the basics, you'll discover how to model immutable messages, implement domain models, and apply techniques like event sourcing and CQRS. You'll also find a tutorial on building streaming applications using akka-stream and akka-http. Finally, you'll get practical advice on how to customize and extend your

Download Ebook Sbt In Action The Simple Scala Build Tool

Akka system. What's Inside Getting concurrency right Testing and performance tuning Clustered and cloud-based applications Covers Akka version 2.4 About the Reader This book assumes that you're comfortable with Java and Scala. No prior experience with Akka required. About the Authors A software craftsman and architect, Raymond Roestenburg is an Akka committer. Rob Bakker specializes in concurrent back-end systems and systems integration. Rob Williams has more than 20 years of product development experience. Table of Contents Introducing Akka Up and running Test-driven development with actors Fault tolerance Futures Your first distributed Akka app Configuration, logging, and deployment Structural patterns for actors Routing messages Message channels Finite-state machines and agents System integration Streaming Clustering Actor persistence Performance tips Looking ahead

Learning Akka

Helps programmers learn functional programming and apply it to the everyday business of coding. Original.

sbt in Action

Gain the key language concepts and programming techniques of Scala in the context of big data analytics and Apache Spark. The book begins by introducing you to Scala and establishes a firm contextual understanding of why you should learn this language, how it stands in comparison to Java, and

Download Ebook Sbt In Action The Simple Scala Build Tool

how Scala is related to Apache Spark for big data analytics. Next, you'll set up the Scala environment ready for examining your first Scala programs. This is followed by sections on Scala fundamentals including mutable/immutable variables, the type hierarchy system, control flow expressions and code blocks. The author discusses functions at length and highlights a number of associated concepts such as functional programming and anonymous functions. The book then delves deeper into Scala's powerful collections system because many of Apache Spark's APIs bear a strong resemblance to Scala collections. Along the way you'll see the development life cycle of a Scala program. This involves compiling and building programs using the industry-standard Scala Build Tool (SBT). You'll cover guidelines related to dependency management using SBT as this is critical for building large Apache Spark applications. Scala Programming for Big Data Analytics concludes by demonstrating how you can make use of the concepts to write programs that run on the Apache Spark framework. These programs will provide distributed and parallel computing, which is critical for big data analytics.

What You Will Learn

- See the fundamentals of Scala as a general-purpose programming language
- Understand functional programming and object-oriented programming constructs in Scala
- Use Scala collections and functions
- Develop, package and run Apache Spark applications for big data analytics

Who This Book Is For Data scientists, data analysts and data engineers who intend to use Apache Spark for large-scale analytics. /div

Akka in Action

Gain expertise in processing and storing data by using advanced techniques with Apache Spark About This Book Explore the integration of Apache Spark with third party applications such as H2O, Databricks and Titan Evaluate how Cassandra and Hbase can be used for storage An advanced guide with a combination of instructions and practical examples to extend the most up-to date Spark functionalities Who This Book Is For If you are a developer with some experience with Spark and want to strengthen your knowledge of how to get around in the world of Spark, then this book is ideal for you. Basic knowledge of Linux, Hadoop and Spark is assumed. Reasonable knowledge of Scala is expected. What You Will Learn Extend the tools available for processing and storage Examine clustering and classification using MLlib Discover Spark stream processing via Flume, HDFS Create a schema in Spark SQL, and learn how a Spark schema can be populated with data Study Spark based graph processing using Spark GraphX Combine Spark with H2O and deep learning and learn why it is useful Evaluate how graph storage works with Apache Spark, Titan, HBase and Cassandra Use Apache Spark in the cloud with Databricks and AWS In Detail Apache Spark is an in-memory cluster based parallel processing system that provides a wide range of functionality like graph processing, machine learning, stream processing and SQL. It operates at unprecedented speeds, is easy to use and offers a rich set of data transformations. This book aims to take your limited knowledge of Spark to the next level

Download Ebook Sbt In Action The Simple Scala Build Tool

by teaching you how to expand Spark functionality. The book commences with an overview of the Spark eco-system. You will learn how to use MLlib to create a fully working neural net for handwriting recognition. You will then discover how stream processing can be tuned for optimal performance and to ensure parallel processing. The book extends to show how to incorporate H2O for machine learning, Titan for graph based storage, Databricks for cloud-based Spark. Intermediate Scala based code examples are provided for Apache Spark module processing in a CentOS Linux and Databricks cloud environment. Style and approach This book is an extensive guide to Apache Spark modules and tools and shows how Spark's functionality can be extended for real-time processing and storage with worked examples.

Behavior Trees in Robotics and AI

Presents an introduction to the Scala programming language which is an abbreviated version of object-orientated programming combined with the power of concurrency capable of running on the Java Virtual Machine.

Scala from Scratch: Exploration

Enter the world of rapid web application development. This gentle introduction to Play covers all you need to know: it carefully introduces the background concepts before diving into examples, making learning Play 2 enjoyable (it includes the latest Play framework version 2.8). Introducing Play Framework is crisp, up-

Download Ebook Sbt In Action The Simple Scala Build Tool

to-the-point, and full of valuable information. You will find chapters covering the basics of Play, the sbt build system, the Ebean ORM, web services using Play, production deployment, cache, and more with actual pragmatic code snippets for common tasks. After reading and using this book, you'll be able to build and deploy Java-based web applications with the Play framework. What You Will Learn Use the Play framework to do rapid Java-based web application development Work with Play controllers and Play views Create web services using JSON and XML Persist data and access databases Use Play modules Carry out asynch programming Cache, deploy, and work with code snippets in Play Who This Book Is For Those with at least some prior experience with Java.

Learning Play! Framework 2

Summary Play for Java shows you how to build Java-based web applications using the Play 2 framework. The book starts by introducing Play through a comprehensive overview example. Then, you'll look at each facet of a typical Play application, both by exploring simple code snippets and by adding to a larger running example. Along the way, you'll contrast Play and JEE patterns and learn how a stateless web application can fit seamlessly in an enterprise environment. About the Book For a Java developer, the Play web application framework is a breath of fresh air. With Play you get the power of Scala's strong type system and functional programming model, and a rock-solid Java API that makes it a snap to create stateless, event-driven, browser-based

Download Ebook Sbt In Action The Simple Scala Build Tool

applications ready to deploy against your existing infrastructure. Play for Java teaches you to build Java-based web applications using Play 2. This book starts with an overview example and then explores each facet of a typical application by discussing simple snippets as they are added to a larger example. Along the way, you'll contrast Play and JEE patterns and learn how a stateless web application can fit seamlessly in an enterprise Java environment. You'll also learn how to develop asynchronous and reactive web applications. The book requires a background in Java. No knowledge of Play or of Scala is assumed. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications.

What's Inside Build Play 2 applications using Java Leverage your JEE skills Work in an asynchronous way Secure and test your Play application About the Authors Nicolas Leroux is a core developer of the Play framework. Sietse de Kaper develops and deploys Java-based Play applications.

Table of Contents PART 1 INTRODUCTION AND FIRST STEPS An introduction to Play The parts of an application A basic CRUD application PART 2 CORE FUNCTIONALITY An enterprise app, Play-style Controllers—handling HTTP requests Handling user input Models and persistence Producing output with view templates PART 3 ADVANCED TOPICS Asynchronous data Security Modules and deployment Testing your application

Functional Programming Patterns in Scala and Clojure

Download Ebook Sbt In Action The Simple Scala Build Tool

Scala is a modern programming language for the Java Virtual Machine (JVM) that combines the best features of object-oriented and functional programming languages. Using Scala, you can write programs more concisely than in Java, as well as leverage the full power of concurrency. Since Scala runs on the JVM, it can access any Java library and is interoperable with Java frameworks. Scala for the Impatient concisely shows developers what Scala can do and how to do it. In this book, Cay Horstmann, the principal author of the international best-selling Core Java™, offers a rapid, code-based introduction that's completely practical. Horstmann introduces Scala concepts and techniques in "blog-sized" chunks that you can quickly master and apply. Hands-on activities guide you through well-defined stages of competency, from basic to expert. Coverage includes Getting started quickly with Scala's interpreter, syntax, tools, and unique idioms Mastering core language features: functions, arrays, maps, tuples, packages, imports, exception handling, and more Becoming familiar with object-oriented programming in Scala: classes, inheritance, and traits Using Scala for real-world programming tasks: working with files, regular expressions, and XML Working with higher-order functions and the powerful Scala collections library Leveraging Scala's powerful pattern matching and case classes Creating concurrent programs with Scala actors Implementing domain-specific languages Understanding the Scala type system Applying advanced "power tools" such as annotations, implicits, and delimited continuations Scala is rapidly reaching a tipping point that will reshape the experience of programming. This book will help object-

Download Ebook Sbt In Action The Simple Scala Build Tool

oriented programmers build on their existing skills, allowing them to immediately construct useful applications as they gradually master advanced programming techniques.

Introducing Play Framework

If you need help building web applications with the Lift framework, this cookbook provides scores of concise, ready-to-use code solutions. You'll find recipes for everything from setting up a coding environment to creating REST web services and deploying your application to production. Built on top of the Scala JVM programming language, Lift takes a different—yet ultimately easier—approach to development than MVC frameworks such as Rails. Each recipe in this book includes a discussion of how and why each solution works, not only to help you complete the task at hand, but also to illustrate how Lift works. Set up an environment and run your first Lift application Generate HTML, using Lift's View First approach Submit forms and work with form elements Build REST web services with the framework's RestHelper trait Take advantage of Lift's support for Ajax and Comet Get examples for modifying Lift's request pipeline Convert Scala classes into tables, rows, and columns in a relational database Send email, call URLs, and schedule tasks from your application Package and deploy your application to various hosted services

JUnit Pocket Guide

Download Ebook Sbt In Action The Simple Scala Build Tool

Summary Play for Scala shows you how to build Scala-based web applications using the Play 2 framework. This book starts by introducing Play through a comprehensive overview example. Then, you'll look at each facet of a typical Play application both by exploring simple code snippets and by adding to a larger running example. Along the way, you'll deepen your knowledge of Scala as a programming language and work with tools like Akka. About this Book Play is a Scala web framework with built-in advantages: Scala's strong type system helps deliver bug-free code, and the Akka framework helps achieve hassle-free concurrency and peak performance. Play builds on the web's stateless nature for excellent scalability, and because it is event-based and nonblocking, you'll find it to be great for near real-time applications. Play for Scala teaches you to build Scala-based web applications using Play 2. It gets you going with a comprehensive overview example. It then explores each facet of a typical Play application by walking through sample code snippets and adding features to a running example. Along the way, you'll deepen your knowledge of Scala and learn to work with tools like Akka. Written for readers familiar with Scala and web-based application architectures. No knowledge of Play is assumed. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. What's Inside Intro to Play 2 Play's MVC structure Mastering Scala templates and forms Persisting data and using web services Using Play's advanced features About the Authors Peter Hiltonv, Erik Bakker, and Francisco Canedo, are engineers at Lunatech, a consultancy with Scala and Play expertise. They are contributors to the Play

Download Ebook Sbt In Action The Simple Scala Build Tool

framework. Table of Contents PART 1: GETTING STARTED Introduction to Play Your first Play application PART 2: CORE FUNCTIONALITY Deconstructing Play application architecture Defining the application's HTTP interface Storing data—the persistence layer Building a user interface with view templates Validating and processing input with the forms API PART 3: ADVANCED CONCEPTS Building a single-page JavaScript application with JSON Play and more Web services, iteratees, and WebSockets

Scala Programming for Big Data Analytics

A strong focus is placed on explanation by example; even with the amount of amazing capabilities of Play! 2, they will be gathered in a single application. At the end of this book, the reader will have a fully-fledged application using the basic and advanced features of Play! 2. Readers must be interested in the Web in general; specifically using the HTTP between a browser and a server to create blazing projects! Java skills are beneficial but not necessary since Play! Framework 2 is not J2EE based but introduces a simple, neat, and completely integrated version; the prerequisites are almost non

Lift in Action

Discover unique features and powerful capabilities of Scala Programming as you build projects in a wide range of domains Key Features Develop a range of Scala projects from web applications to big data

Download Ebook Sbt In Action The Simple Scala Build Tool

analysis Leverage full power of modern web programming using Play Framework Build real-time data pipelines in Scala with a Bitcoin transaction analysis app Book Description Scala is a type-safe JVM language that incorporates object-oriented and functional programming (OOP and FP) aspects. This book gets you started with essentials of software development by guiding you through various aspects of Scala programming, helping you bridge the gap between learning and implementing. You will learn about the unique features of Scala through diverse applications and experience simple yet powerful approaches for software development. Scala Programming Projects will help you build a number of applications, beginning with simple projects, such as a financial independence calculator, and advancing to other projects, such as a shopping application and a Bitcoin transaction analyzer. You will be able to use various Scala features, such as its OOP and FP capabilities, and learn how to write concise, reactive, and concurrent applications in a type-safe manner. You will also learn how to use top-notch libraries such as Akka and Play and integrate Scala apps with Kafka, Spark, and Zeppelin, along with deploying applications on a cloud platform. By the end of the book, you will not only know the ins and outs of Scala, but you will also be able to apply it to solve a variety of real-world problems What you will learn Build, test, and package code using Scala Build Tool Decompose code into functions, classes, and packages for maintainability Implement the functional programming capabilities of Scala Develop a simple CRUD REST API using the Play framework Access a relational database using Slick Develop a dynamic

Download Ebook Sbt In Action The Simple Scala Build Tool

web UI using Scala.js Source streaming data using Spark Streaming and write a Kafka producer Use Spark and Zeppelin to analyze data Who this book is for If you are an amateur programmer who wishes to learn how to use Scala, this book is for you. Knowledge of Java will be beneficial, but not necessary, to understand the concepts covered in this book.

Scala in Action

Write efficient, clean, and reusable code with Scala About This Book Unleash the power of Scala and apply it in the real world Increase your efficiency by leveraging the power of Creational, Structural, Behavioural, and Functional design patterns Build object oriented and functional applications quickly and effectively Who This Book Is For If you want to increase your understanding of Scala and apply it to real-life application development, then this book is for you. We've also designed the book to be used as a quick reference guide while creating applications. Previous Scala programming knowledge is expected. What You Will Learn Immerse yourself in industry-standard design patterns—structural, creational, and behavioral—to create extraordinary applications Feel the power of traits and their application in Scala Implement abstract and self types and build clean design patterns Build complex entity relationships using structural design patterns Create applications faster by applying functional design patterns In Detail Scala has become increasingly popular in many different IT sectors. The language is exceptionally

Download Ebook Sbt In Action The Simple Scala Build Tool

feature-rich which helps developers write less code and get faster results. Design patterns make developer's lives easier by helping them write great software that is easy to maintain, runs efficiently and is valuable to the company or people concerned. You will learn about the various features of Scala and be able to apply well-known, industry-proven design patterns in your work. The book starts off by focusing on some of the most interesting features of Scala while using practical real-world examples. We will also cover the popular "Gang of Four" design patterns and show you how to incorporate functional patterns effectively. By the end of this book, you will have enough knowledge and understanding to quickly assess problems and come up with elegant solutions. Style and approach The design patterns in the book will be explained using real-world, step-by-step examples. For each design pattern, there will be hints about when to use it and when to look for something more suitable. This book can also be used as a practical guide, showing you how to leverage design patterns effectively.

Scala for the Impatient

Offers a tutorial to the Scala programming language, describing how to use the open source libraries for both Java and Scala, how to build DSLs and other productivity tools, and ways to debug and test using ScalaTest.

The Old Tree

Download Ebook Sbt In Action The Simple Scala Build Tool

In this groundbreaking book, Michele Weiner-Davis gives straightforward, effective advice on preventing divorce and how couples can stay together instead of coming apart. Using case histories to illustrate her marriage-enriching, divorce-preventing techniques, which can be used even if only one partner participates, Weiner-Davis shows readers: * How to leave the past behind and set attainable goals * Strategies for identifying problem-solving behavior that works—and how to make changes last * "Uncommon-sense" methods for breaking unproductive patterns Inspirational and accessible, Divorce Busting shows readers in pain that working it out is better than getting out.

Scala Programming Projects

Summary A tutorial about effectively building Scala projects, sbt in Action introduces the sbt tool with a simple project that establishes the fundamentals of running commands and tasks. Next, it shows you how to use the peripheral libraries in sbt to make common tasks simpler. Finally, it covers how to deploy software effectively. You'll learn to appreciate how sbt improves the process of developing software, not just running builds. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology sbt is a build tool native to Scala that can transform any build scenario into a streamlined, automated, and repeatable process. Its interactive shell lets you customize your builds on the fly, and with sbt's unique incremental compilation feature, you can update only

Download Ebook Sbt In Action The Simple Scala Build Tool

the parts of your project that change, without having to rebuild everything. Mastering sbt, along with the right patterns and best practices, is guaranteed to save you time and trouble on every project. About the Book sbt in Action, first and foremost, teaches you how to build Scala projects effectively. It introduces the sbt tool with a simple project that establishes the fundamentals of running commands and tasks. Next, it shows you how to use the peripheral libraries in sbt to make common tasks simpler. Along the way, you'll work through real projects that demonstrate how to build and deploy your projects regardless of development methodology or process. What's Inside Master sbt's loosely coupled libraries Effectively manage dependencies Automate and simplify your builds Customize builds and tasks About the Reader Readers should be comfortable reading Scala code. No experience with sbt required. About the Authors Josh Suereth is an engineer at Typesafe and the author of Manning's Scala in Depth. Matthew Farwell is a senior developer and the author of the Scalastyle style checker.

Table of Contents

PART 1 WHY SBT? Why sbt? Getting started

PART 2 UNDERSTANDING SBT'S CORE CONCEPTS Core concepts The default build

PART 3 WORKING WITH SBT Testing The IO and Process libraries Accepting user input Using plugins and external libraries Debugging your build

PART 4 EXTENDING SBT Automating workflows with commands Defining a plugin

PART 5 DEPLOYING YOUR PROJECTS Distributing your projects

Play for Java

Download Ebook Sbt In Action The Simple Scala Build Tool

Save time and trouble when using Scala to build object-oriented, functional, and concurrent applications. With more than 250 ready-to-use recipes and 700 code examples, this comprehensive cookbook covers the most common problems you'll encounter when using the Scala language, libraries, and tools. It's ideal not only for experienced Scala developers, but also for programmers learning to use this JVM language. Author Alvin Alexander (creator of DevDaily.com) provides solutions based on his experience using Scala for highly scalable, component-based applications that support concurrency and distribution. Packed with real-world scenarios, this book provides recipes for: Strings, numeric types, and control structures Classes, methods, objects, traits, and packaging Functional programming in a variety of situations Collections covering Scala's wealth of classes and methods Concurrency, using the Akka Actors library Using the Scala REPL and the Simple Build Tool (SBT) Web services on both the client and server sides Interacting with SQL and NoSQL databases Best practices in Scala development

Perfectly Reflected

Powerful Tools for Overcoming Depression Do you think that you could lessen or overcome your feelings of depression if only you had the right tools? Are you ready to help yourself stop feeling depressed? If so, then you've found a powerful resource. The Cognitive Behavioral Workbook for Depression is a complete, comprehensive, step-by-step approach you can use, on your own or working with a therapist, to manage

Download Ebook Sbt In Action The Simple Scala Build Tool

and conquer depression. Using techniques from cognitive behavioral therapy (CBT) and rational emotive behavior therapy (REBT), you'll develop a plan for breaking your cycle of depression. You'll learn to recognize and dispute the irrational thoughts and depressive beliefs that keep you feeling down. You'll also discover ways to guard against emotions that often occur with depression, like anxiety and anger. As you proceed through the book's chapters and exercises, you'll build stronger defenses against depression, which will help you maintain your progress. The powerful tools in this book will help you:

- Develop a personalized plan for change
- Assess your depression and learn how best to overcome it
- Defeat depressive thought and beliefs
- Overcome thoughts of helplessness, worthlessness, and self-blaming
- Avoid perfectionism and frustration
- Manage stress and depressive sensations
- Use special cognitive and behavioral techniques for positive change

Divorce Busting

Build fault-tolerant, robust, and distributed applications in Scala Key Features - Understand and use the concepts of reactive programming to build distributed systems running on multiple nodes. - Learn how reactive architecture reduces complexity throughout the development process. - Get to grips with functional reactive programming and Reactive Microservices. Book Description Reactive programming is a scalable, fast way to build applications, and one that helps us write code that is concise, clear, and readable. It can be used for many

Download Ebook Sbt In Action The Simple Scala Build Tool

purposes such as GUIs, robotics, music, and others, and is central to many concurrent systems. This book will be your guide to getting started with Reactive programming in Scala. You will begin with the fundamental concepts of Reactive programming and gradually move on to working with asynchronous data streams. You will then start building an application using Akka Actors and extend it using the Play framework. You will also learn about reactive stream specifications, event sourcing techniques, and different methods to integrate Akka Streams into the Play Framework. This book will also take you one step forward by showing you the advantages of the Lagom framework while working with reactive microservices. You will also learn to scale applications using multi-node clusters and test, secure, and deploy your microservices to the cloud. By the end of the book, you will have gained the knowledge to build robust and distributed systems with Scala and Akka. What you will learn

- Understand the fundamental principles of Reactive and Functional programming
- Develop applications utilizing features of the Akka framework
- Explore techniques to integrate Scala, Akka, and Play together
- Learn about Reactive Streams with real-time use cases
- Develop Reactive Web Applications with Play, Scala, Akka, and Akka Streams
- Develop and deploy Reactive microservices using the Lagom framework and ConductR

Who this book is for This book is for Scala developers who would like to build fault-tolerant, scalable distributed systems. No knowledge of Reactive programming is required.

Ignore Your Customers (and They'll Go

Away)

Summary Netty in Action introduces the Netty framework and shows you how to incorporate it into your Java network applications. You'll learn to write highly scalable applications without the need to dive into the low-level non-blocking APIs at the core of Java. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Netty is a Java-based networking framework that manages complex networking, multithreading, and concurrency for your applications. And Netty hides the boilerplate and low-level code, keeping your business logic separate and easier to reuse. With Netty, you get an easy-to-use API, leaving you free to focus on what's unique to your application. About the Book Netty in Action introduces the Netty framework and shows you how to incorporate it into your Java network applications. You will discover how to write highly scalable applications without getting into low-level APIs. The book teaches you to think in an asynchronous way as you work through its many hands-on examples and helps you master the best practices of building large-scale network apps. What's Inside Netty from the ground up Asynchronous, event-driven programming Implementing services using different protocols Covers Netty 4.x About the Reader This book assumes readers are comfortable with Java and basic network architecture. About the Authors Norman Maurer is a senior software engineer at Apple and a core developer of Netty. Marvin Wolfthal is a Dell Services consultant who has implemented mission-critical

Download Ebook Sbt In Action The Simple Scala Build Tool

enterprise systems using Netty. Table of Contents
PART 1 NETTY CONCEPTS AND ARCHITECTURE Netty-
asynchronous and event-driven Your first Netty
application Netty components and design Transports
ByteBuf ChannelHandler and ChannelPipeline
EventLoop and threading model Bootstrapping Unit
testing PART 2 CODECS The codec framework
Provided ChannelHandlers and codecs PART 3
NETWORK PROTOCOLS WebSocket Broadcasting
events with UDP PART 4 CASE STUDIES Case studies,
part 1 Case studies, part 2

The Cognitive Behavioral Workbook for Depression

JUnit, created by Kent Beck and Erich Gamma, is an open source framework for test-driven development in any Java-based code. JUnit automates unit testing and reduces the effort required to frequently test code while developing it. While there are lots of bits of documentation all over the place, there isn't a go-to-manual that serves as a quick reference for JUnit. This Pocket Guide meets the need, bringing together all the bits of hard to remember information, syntax, and rules for working with JUnit, as well as delivering the insight and sage advice that can only come from a technology's creator. Any programmer who has written, or is writing, Java Code will find this book valuable. Specifically it will appeal to programmers and developers of any level that use JUnit to do their unit testing in test-driven development under agile methodologies such as Extreme Programming (XP) [another Beck creation].

Sbt in Action

Apache Spark is amazing when everything clicks. But if you haven't seen the performance improvements you expected, or still don't feel confident enough to use Spark in production, this practical book is for you. Authors Holden Karau and Rachel Warren demonstrate performance optimizations to help your Spark queries run faster and handle larger data sizes, while using fewer resources. Ideal for software engineers, data engineers, developers, and system administrators working with large-scale data applications, this book describes techniques that can reduce data infrastructure costs and developer hours. Not only will you gain a more comprehensive understanding of Spark, you'll also learn how to make it sing. With this book, you'll explore: How Spark SQL's new interfaces improve performance over SQL's RDD data structure The choice between data joins in Core Spark and Spark SQL Techniques for getting the most out of standard RDD transformations How to work around performance issues in Spark's key/value pair paradigm Writing high-performance Spark code without Scala or the JVM How to test for functionality and performance when applying suggested improvements Using Spark MLlib and Spark ML machine learning libraries Spark's Streaming components and external community packages

Introduction to JVM Languages

A practical and fast-paced guide, *Getting Started with SBT for Scala* walks you through the setup of Scala

Download Ebook Sbt In Action The Simple Scala Build Tool

projects in SBT with sample code for common as well as critical scenarios. Getting Started with SBT for Scala is for developers working on Scala projects who are interested in learning and utilizing Simple Build Tool to manage the build process.

Mastering Apache Spark

Leverage the power of Scala with different tools to build scalable, robust data science applications About This Book A complete guide for scalable data science solutions, from data ingestion to data visualization Deploy horizontally scalable data processing pipelines and take advantage of web frameworks to build engaging visualizations Build functional, type-safe routines to interact with relational and NoSQL databases with the help of tutorials and examples provided Who This Book Is For If you are a Scala developer or data scientist, or if you want to enter the field of data science, then this book will give you all the tools you need to implement data science solutions. What You Will Learn Transform and filter tabular data to extract features for machine learning Implement your own algorithms or take advantage of MLLib's extensive suite of models to build distributed machine learning pipelines Read, transform, and write data to both SQL and NoSQL databases in a functional manner Write robust routines to query web APIs Read data from web APIs such as the GitHub or Twitter API Use Scala to interact with MongoDB, which offers high performance and helps to store large data sets with uncertain query requirements Create Scala web applications that couple with JavaScript libraries such

Download Ebook Sbt In Action The Simple Scala Build Tool

as D3 to create compelling interactive visualizations
Deploy scalable parallel applications using Apache Spark, loading data from HDFS or Hive In Detail Scala is a multi-paradigm programming language (it supports both object-oriented and functional programming) and scripting language used to build applications for the JVM. Languages such as R, Python, Java, and so on are mostly used for data science. It is particularly good at analyzing large sets of data without any significant impact on performance and thus Scala is being adopted by many developers and data scientists. Data scientists might be aware that building applications that are truly scalable is hard. Scala, with its powerful functional libraries for interacting with databases and building scalable frameworks will give you the tools to construct robust data pipelines. This book will introduce you to the libraries for ingesting, storing, manipulating, processing, and visualizing data in Scala. Packed with real-world examples and interesting data sets, this book will teach you to ingest data from flat files and web APIs and store it in a SQL or NoSQL database. It will show you how to design scalable architectures to process and modelling your data, starting from simple concurrency constructs such as parallel collections and futures, through to actor systems and Apache Spark. As well as Scala's emphasis on functional structures and immutability, you will learn how to use the right parallel construct for the job at hand, minimizing development time without compromising scalability. Finally, you will learn how to build beautiful interactive visualizations using web frameworks. This book gives tutorials on some of the most common Scala libraries for data science,

Download Ebook Sbt In Action The Simple Scala Build Tool

allowing you to quickly get up to speed with building data science and data engineering solutions. Style and approach A tutorial with complete examples, this book will give you the tools to start building useful data engineering and data science solutions straightaway

Spark in Action

INTRODUCTION xv CHAPTER 1: LANGUAGE FEATURES
1 Static Types and Type Inference 2 Implicit Parameters, Conversions, and Their Resolution 3 Case Class, Tuples, and Case Object 5 Abstract Class, Traits, and Sealed 6 Pattern Matching 8 Statements Are Expressions 9 String Interpolation 9 Scala Collections, immutable and mutable 10 For Comprehension 12 Packages, Companion Objects, Package Objects, and Scoping 13 AnyVal, AnyRef, Any, and the Type Hierarchy 16 Summary 17
CHAPTER 2: FUNCTIONAL PROGRAMMING 19
Immutability 20 Pure Functions 22 Recursion 23 Higher-Order Functions 26 Core Collection Methods 27 Methods Returning a Collection 29 Methods Returning a Value 31 Currying and Partially Applied Functions 32 Null Handling (Option) 34 Strict versus Non-Strict Initialization 35 Summary 36
CHAPTER 3: JAVA COMPATIBILITY 37
Scala and Java Collections 37
Interfaces and Traits 40
Scala/Java Enumerations 42
Summary 43
CHAPTER 4: SIMPLE BUILD TOOL 45
Basic Usage 46
Project Structure 47
Single Project 47
Scopes 49
Custom Tasks 50
Dependencies 50
Resolvers 51
Advanced Usage 52
Advanced Dependencies 53
Testing in the Console 55
Release

Download Ebook Sbt In Action The Simple Scala Build Tool

Management 56 Deploying to Sonatype 56 Packaging with SBT-Native-Packager 58 Creating a Docker Image 59 Common SBT Commands 60 Useful Plugins 61 Summary 62 CHAPTER 5: MAVEN 63 Getting Started with Maven and Scala 64 Introducing scala-maven-plugin 67 Adding Library Dependencies 70 Using the REPL 71 Getting Help 72 Running Tests 72 Joint Compilation with Java 74 Accelerating Compilation with Zinc 76 Summary 77 CHAPTER 6: SCALA STYLE/LINT 79 Scala with Style 79 Scaliform 81 Scapegoat 82 WartRemover 82 Scoverage 84 Summary 84 CHAPTER 7: TESTING 85 ScalaTest 86 Unit Tests 87 Integration Testing 87 Data-Driven Tests 88 Performance Testing 89 Acceptance Testing 90 Mocks 92 Load Testing 93 Summary 94 CHAPTER 8: DOCUMENTING YOUR CODE WITH SCALADOC 95 Why Document Your Code? 96 Revealing the Benefits 96 Bookending the Continuum 96 Choosing What to Document 96 Scaladoc Structure 97 Overall Layout 97 Index Pane 98 Content Pane 100 Invoking the Scaladoc Tool 106 Wiki Syntax 108 Formatting with Inline Wiki Syntax 108 Structuring with Block Elements 110 Linking 113 Locating Scaladoc 117 Tagging 117 Everyday Tagging 117 Tagging for Groups 123 Advanced Tagging 125 Invoking scaladoc: Additional Options 132 Integrating Scaladoc Creation with Your Project 133 Configuring Maven 133 Configuring SBT 134 Publishing Scaladoc 134 Tables and CSS 136 Summary 138 CHAPTER 9: TYPE SYSTEM 139 What Is a Type System? 140 Static versus Dynamic Typing 140 What Static Type Systems Are Good For 141 What Dynamic Type Systems Are Good For 141 Scala's Unified Type System 141 Value Classes 143 Polymorphism 145 Subtype

Download Ebook Sbt In Action The Simple Scala Build Tool

Polymorphism 145 Parametric Polymorphism 146 Ad Hoc Polymorphism 146 Bounds 149 Context Bounds 149 Upper and Lower Bounds 150 Variance 151 Other Niceties 155 Self-Type Annotations 155 Self-Recursive Types 158 Abstract Type Members 159 Dynamic Programming 161 Structural Types 161 Dynamic Trait 162 Summary 164 CHAPTER 10: ADVANCED FUNCTIONAL PROGRAMMING 165 Higher-Kinded Types 165 Functional Design Patterns 167 Functor 167 Applicative Functor 170 Monad 172 Semigroup 173 Monoid 174 Summary 176 CHAPTER 11: CONCURRENCY 179 Synchronize/Atomic Variables 181 Future Composition 184 Parallel Collections 187 Reactive Streams 192 STM 195 Actors (Akka) 198 Spark 200 Summary 202 CHAPTER 12: SCALA.JS 205 Scala.js and Its Design 205 Getting Started: Scala.js with SBT 206 Scala.js Peculiarities 210 Webjars and Dealing with the Frontend Ecosystem 211 Summary 213 INDEX 215

Netty in Action

Build fault tolerant concurrent and distributed applications with Akka About This Book Build networked applications that self-heal Scale out your applications to handle more traffic faster An easy-to-follow guide with a number of examples to ensure you get the best start with Akka Who This Book Is For This book is intended for beginner to intermediate Java or Scala developers who want to build applications to serve the high-scale user demands in computing today. If you need your applications to handle the ever-growing user bases and datasets with high

Download Ebook Sbt In Action The Simple Scala Build Tool

performance demands, then this book is for you. Learning Akka will let you do more for your users with less code and less complexity, by building and scaling your networked applications with ease. What You Will Learn Use Akka to overcome the challenges of concurrent programming Resolve the issues faced in distributed computing with the help of Akka Scale applications to serve a high number of concurrent users Make your system fault-tolerant with self-healing applications Provide a timely response to users with easy concurrency Reduce hardware costs by building more efficient multi-user applications Maximise network efficiency by scaling it In Detail Software today has to work with more data, more users, more cores, and more servers than ever. Akka is a distributed computing toolkit that enables developers to build correct concurrent and distributed applications using Java and Scala with ease, applications that scale across servers and respond to failure by self-healing. As well as simplifying development, Akka enables multiple concurrency development patterns with particular support and architecture derived from Erlang's concept of actors (lightweight concurrent entities). Akka is written in Scala, which has become the programming language of choice for development on the Akka platform. Learning Akka aims to be a comprehensive walkthrough of Akka. This book will take you on a journey through all the concepts of Akka that you need in order to get started with concurrent and distributed applications and even build your own. Beginning with the concept of Actors, the book will take you through concurrency in Akka. Moving on to networked applications, this book will explain the

Download Ebook Sbt In Action The Simple Scala Build Tool

common pitfalls in these difficult problem areas while teaching you how to use Akka to overcome these problems with ease. The book is an easy to follow example-based guide that will strengthen your basic knowledge of Akka and aid you in applying the same to real-world scenarios. Style and approach An easy-to-follow, example-based guide that will take you through building several networked-applications that work together while you are learning concurrent and distributed computing concepts. Each topic is explained while showing you how to design with Akka and how it is used to overcome common problems in applications. By showing Akka in context to the problems, it will help you understand what the common problems are in distributed applications and how to overcome them.

Building Applications with Scala

A tutorial about effectively building Scala projects, this book introduces the sbt tool with a simple project that establishes the fundamentals of running commands and tasks. Next, it shows you how to use the peripheral libraries in sbt to make common tasks simpler. Finally, it covers how to deploy software effectively. You'll learn to appreciate how sbt improves the process of developing software, not just running builds. About the Technology sbt is a build tool native to Scala that can transform any build scenario into a streamlined, automated, and repeatable process. Its interactive shell lets you customize your builds on the fly, and with sbt's unique incremental compilation feature, you can update only

Download Ebook Sbt In Action The Simple Scala Build Tool

the parts of your project that change, without having to rebuild everything. Mastering sbt, along with the right patterns and best practices, is guaranteed to save you time and trouble on every project. About the Book sbt in Action, first and foremost, teaches you how to build Scala projects effectively. It introduces the sbt tool with a simple project that establishes the fundamentals of running commands and tasks. Next, it shows you how to use the peripheral libraries in sbt to make common tasks simpler. Along the way, you'll work through real projects that demonstrate how to build and deploy your projects regardless of development methodology or process. What's Inside Master sbt's loosely coupled libraries Effectively manage dependencies Automate and simplify your builds Customize builds and tasks About the Reader Readers should be comfortable reading Scala code. No experience with sbt required. About the Authors Josh Suereth is an engineer at Typesafe and the author of Manning's Scala in Depth . Matthew Farwell is a senior developer and the author of the Scalastyle style checker.

Scala Cookbook

Scala from Scratch: Exploration is the first in a series of two books that teach you the Scala programming language. Readers that have some experience with an object-oriented or imperative language, like Java, Ruby, or Python, will get a comprehensive overview of what Scala brings to the table. The goal is to get you excited about Scala and give you a strong foundation for writing your first applications and continuing your

Download Ebook Sbt In Action The Simple Scala Build Tool

journey. By the end of the book, you will have a good idea of what it's like to work with Scala, and you will have written a small, but complete command-line application based on a Functional Core, Imperative Shell architecture. In this book you will learn about functional and object-oriented aspects of Scala. You will learn how to write expressive, intent-revealing code using pattern matching, functional sequence processing and for comprehensions, and how to design data types that enforce their business invariants in a functional way, without throwing exceptions. You will get a first glimpse at Scala's powerful type system and how to abstract over concrete types, and you will learn all there is to know about working with Option, Scala's approach at avoiding the million dollar mistake of null references.

Getting Started with SBT for Scala

Behavior Trees (BTs) provide a way to structure the behavior of an artificial agent such as a robot or a non-player character in a computer game. Traditional design methods, such as finite state machines, are known to produce brittle behaviors when complexity increases, making it very hard to add features without breaking existing functionality. BTs were created to address this very problem, and enables the creation of systems that are both modular and reactive. Behavior Trees in Robotics and AI: An Introduction provides a broad introduction as well as an in-depth exploration of the topic, and is the first comprehensive book on the use of BTs. This book introduces the subject of BTs from simple topics, such

Download Ebook Sbt In Action The Simple Scala Build Tool

as semantics and design principles, to complex topics, such as learning and task planning. For each topic, the authors provide a set of examples, ranging from simple illustrations to realistic complex behaviors, to enable the reader to successfully combine theory with practice. Starting with an introduction to BTs, the book then describes how BTs relate to, and in many cases, generalize earlier switching structures, or control architectures. These ideas are then used as a foundation for a set of efficient and easy to use design principles. The book then presents a set of important extensions and provides a set of tools for formally analyzing these extensions using a state space formulation of BTs. With the new analysis tools, the book then formalizes the descriptions of how BTs generalize earlier approaches and shows how BTs can be automatically generated using planning and learning. The final part of the book provides an extended set of tools to capture the behavior of Stochastic BTs, where the outcomes of actions are described by probabilities. These tools enable the computation of both success probabilities and time to completion. This book targets a broad audience, including both students and professionals interested in modeling complex behaviors for robots, game characters, or other AI agents. Readers can choose at which depth and pace they want to learn the subject, depending on their needs and background.

Functional Programming in Scala

Two children, bored with their summer routine, step through an unusual tree and embark on an

Download Ebook Sbt In Action The Simple Scala Build Tool

extraordinary adventure. They journey to another realm with an important friend. Finding themselves in the center of a terrible battle back in their own world, they discover things are not what they appear to be and their young lives are changed forever

Scala for Data Science

Summary Scalatra in Action introduces the Scalatra framework and the Sinatra model. It covers the framework in its entirety, starting with concepts like request routing, input handling, actions, and HTTP responses, then proceeds to more advanced topics, such as data access, handling heavy load, asynchronicity, securing applications, designing and documenting RESTful APIs, and real-time web programming. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Scalatra is a lightweight Scala web framework similar to the popular Ruby-based Sinatra. It's perfect for running real-time applications on multicore servers, and is a fast way to spin up web apps and build HTTP APIs for mobile, Backbone.js, and AngularJS apps. About the Book Scalatra in Action covers the Scalatra framework in its entirety, starting with concepts such as request routing, input handling, actions, and HTTP responses. For readers who don't already know Scala, the book introduces the Scala language and sbt, the Simple Build Tool. You'll learn how to use Scalatra's powerful templating engine, Scalate. It also covers advanced topics such as data access, handling heavy load, asynchronicity, securing your application, designing

Download Ebook Sbt In Action The Simple Scala Build Tool

RESTful APIs, and real-time web programming. What's Inside Make clean templates using Scalate Integrate with libraries that supplement Scalatra Write tests using Specs2 Integrate Scalatra with databases About the Reader Readers should be familiar with the basics of HTTP, REST, and web applications. No experience with Scalatra, Sinatra, or Scala is required. About the Authors Dave Hrycyszyn is technical director for a London-based agency specializing in agile software design and development. Stefan Ollinger is an active Scalatra contributor. Ross A. Baker is a Senior Cloud Engineer, a Scalate commiter, and organizer of the Indy Scala meetup. Table of Contents PART 1 INTRODUCTION TO SCALATRA Introduction A taste of Scalatra Routing Working with user input PART 2 COMMON DEVELOPMENT TASKS Handling JSON Handling files Server-side templating Testing Configuration, build, and deployment Working with a database PART 3 ADVANCED TOPICS Authentication Asynchronous programming Creating a RESTful JSON API with Swagger

Mastering Akka

Get up to speed on Scala, the JVM language that offers all the benefits of a modern object model, functional programming, and an advanced type system. Packed with code examples, this comprehensive book shows you how to be productive with the language and ecosystem right away, and explains why Scala is ideal for today's highly scalable, data-centric applications that support concurrency and distribution. This second edition covers recent

Download Ebook Sbt In Action The Simple Scala Build Tool

language features, with new chapters on pattern matching, comprehensions, and advanced functional programming. You'll also learn about Scala's command-line tools, third-party tools, libraries, and language-aware plugins for editors and IDEs. This book is ideal for beginning and advanced Scala developers alike. Program faster with Scala's succinct and flexible syntax Dive into basic and advanced functional programming (FP) techniques Build killer big-data apps, using Scala's functional combinators Use traits for mixin composition and pattern matching for data extraction Learn the sophisticated type system that combines FP and object-oriented programming concepts Explore Scala-specific concurrency tools, including Akka Understand how to develop rich domain-specific languages Learn good design techniques for building scalable and robust Scala applications

Scala Reactive Programming

Provides a guide to using Scala and Clojure to solve in-depth programming problems.

Download Ebook Sbt In Action The Simple Scala Build Tool

[ROMANCE](#) [ACTION & ADVENTURE](#) [MYSTERY & THRILLER](#) [BIOGRAPHIES & HISTORY](#) [CHILDREN'S](#) [YOUNG ADULT](#) [FANTASY](#) [HISTORICAL FICTION](#) [HORROR](#) [LITERARY FICTION](#) [NON-FICTION](#) [SCIENCE FICTION](#)